

C7TI1 TL1 Message Documentation

Description

Introduction:

This document contains the TL1 command definitions for all support commands of the C7 Optical Service Transport Product.

Calix has defined the TL1 messages and parameters within the guidelines of the Bellcore documents defined in the "Reference Documents" section. Calix may not support all parameter values identified by these Bellcore documents. In some cases Calix has modified the TL1 message in order to meet the needs of the C7 system and to give the user greater flexibility. Each command specifies where the command was defined and if Calix has modified.

Message Classifications:

Each message is assigned Category and a Security Class.

The Category allows types of similar commands to be grouped together easily. This enables users to identify all commands which apply one type of object or grouping of functionality. The customer can then easily click on the related message. Examples of Categories are all T1 Provisioning commands, Security commands, etc.

The Security Class identifies which category the command falls into for security access.

Conventions and Notations:

The following are conventions and notations used in the command definitions. These characters are not seen when transmitted but are included in the transmission and are read by the terminal display.

Notation	Description
cr	A carriage return in American Standard Code for Information Interchange (ASCII).
lf	A line feed in ASCII.
^	The carat character indicates a blank must (and will) appear in the message.
	The square braces enclose an optional symbol or information unit (e.g., a[b]c represents abc

All Categories

[ADSL Facility](#)
[Bandwidth Management](#)
[Cross Connect](#)
[DS0 Facility](#)
[DS1 Facility](#)
[DS3 Facility](#)
[Deprecated](#)
[EC1 Facility](#)
[Environment](#)
[Equipment](#)
[Ethernet](#)
[Fault \(Alarms\)](#)
[HDSL Facility](#)
[IMA Group](#)
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[Loop Testing](#)
[Management Interface](#)
[OCn Facility](#)
[PON](#)
[PPPOE](#)
[Performance Monitor](#)
[Protection Switching](#)
[STS Path](#)
[Security](#)
[System](#)
[TDM Services](#)
[Timing](#)
[VOIP](#)
[Video](#)
[Virtual Facility](#)

[]	or ac since b is optional). An optional parameter means that if a user inputs an empty field for an optional parameter, then a default value (or a default action) will be substituted automatically in the transmitted input field. In the case of an EDIT command the optional parameter means the value will not change unless input by the user.
< >	The angle brackets are used to enclose one or more information items (e.g. date, ctime, source identified, etc.). The angle brackets should not be included when entering the TL1 commands.

Syntactical Characters:

The following syntactical characters (in format expression) shall be transmitted exactly as shown:

Syntactical Character	Description
:	The semi-colon is the end of a message delimiter.
/* */	The pair of comment characters /* and */ are used to delimit free format text.
,	The comma separates parameters within a parameter block.
:	A colon separates parameter blocks.
-	A dash is always used in the command code when modifiers are present to separate the verb, first modifier, and second modifier (when applicable).
<	The less than symbol is the Ready Indicator (refer to TR-TSY-000831).
>	The greater than symbol is an End Of Output character indicating more output

associated with the response will follow (refer to TR-TSY-000831).

Reference Documents:

GR-199-CORE "Operations Application Messages - Memory Administration Messages", Issue 3, February 1999, Revision 3, August 1999, OTGR Section 12.2.

GR-202-CORE "Network Maintenance: Loop Testing Messages At The OS/TSC Interface", Issue 2, November 1995, OTGR Section 12.5R.

GR-833-CORE "Network Maintenance: Network Element and Transport Surveillance Messages", Issue 3, February 1999, OTGR Section 12.3.

TR-NWT-000835 "Operations Application Messages - Network Element and Network System Security Administration Messages", Issue 3, January 1993, OTGR Section 12.5.

GR-1093-CORE "Generic State Requirements for Network Elements", Issue 1, October 1994, Revision 1, December 1995.

Access Identifier Definitions (AID):

The access identifier defines entities within the system and are of the following generic format:

(Node Id)-(Shelf Id)-(Slot Id)-(Port Id).....

(Node Id)-(Shelf Id)-(Slot Id)-(Port Id)-(Level 1 Id)-

(Node Id)-(Entity Id)

Abbreviations:

Abbreviation	Description
ACO	Alarm Cutoff
ACT	Activate
ADSL	Asymmetric Digital Subscriber Line
AID	Access Identifier
ALM	Alarm
ALW	Allow
CANC	Cancel
CRS	Cross-Connect

EOC	Embedded Operations Channel
FFP	Fast Facility Protection
GOS	Grade of Service
MSG	Autonomous Message
OC3	Optical Carrier Level 3
OC12	Optical Carrier Level 12
OC48	Optical Carrier Level 48
STBY	Standby
SECU	Security
TGRP	Test Group
TL1	Translation Language 1
TMC	Time Slot Management Channel
TRPROF	Traffic Profile

C7T11 TL1 Message Documentation

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ALW	Allow
CANC	Cancel
CRS	Cross-Connect
EOC	Embedded Operations Channel
FFP	Fast Facility Protection
GOS	Grade of Service
MSG	Autonomous Message
OC3	Optical Carrier Level 3
OC12	Optical Carrier Level 12
OC48	Optical Carrier Level 48
STBY	Standby
SECU	Security
TGRP	Test Group
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TRPROF	Traffic Profile

All Categories

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Calix C7 TL1 Messages

Description

Introduction:

This document contains the TL1 command definitions for all support commands in the C7 Optical Service Transport Product.

Calix has defined the TL1 messages and parameters within the guidelines of the Bellcore documents defined in the "Reference Documents" section. Calix may not support all parameter values identified by these Bellcore documents. In some cases Calix has modified the TL1 message in order to meet the needs of the C7 system and to give the user greater flexibility. Each command specifies where the command was defined and if Calix has modified.

Message Classifications:

Each message is assigned Category and a Security Class.

The Category allows types of similar commands to be grouped together easily. This enables users to identify all commands which apply one type of object or grouping of

functionality. The customer can then easily click on the related message. Examples of Categories are all T1 Provisioning commands, Security commands, etc.

The Security Class identifies which category the command falls into for security access.

Conventions and Notations:

The following are conventions and notations used in the command definitions. These characters are not seen when transmitted but are included in the transmission and are read by the terminal display.

Notation	Description
cr	A carriage return in American Standard Code for Information Interchange (ASCII).
lf	A line feed in ASCII.
^	The carat character indicates a blank must (and will) appear in the message.
[]	The square braces enclose an optional symbol or information unit (e.g., a[b]c represents abc or ac since b is optional). An optional parameter means that if a user inputs an empty field for an optional parameter, then a default value (or a default action) will be substituted automatically in the transmitted input field. In the case of an EDIT command the optional parameter means the value will not change unless input by the user.
< >	The angle brackets are used to enclose one or more information items (e.g. date, ctime, source identified, etc.). The angle brackets should not be included when entering the TL1 commands.

Syntactical Characters:

The following syntactical characters (in format expression) shall be transmitted exactly as shown:

Syntactical Character	Description
;	The semi-colon is the end of a message delimiter.
/* */	The pair of comment characters /* and */ are used to delimit free format text.
,	The comma separates parameters within a parameter block.
:	A colon separates parameter blocks.
-	A dash is always used in the command code when modifiers are present to separate the verb, first

	modifier, and second modifier (when applicable).
<	The less than symbol is the Ready Indicator (refer to TR-TSY-000831).
>	The greater than symbol is an End Of Output character indicating more output associated with the response will follow (refer to TR-TSY-000831).

Reference Documents:

GR-199-CORE "Operations Application Messages - Memory Administration Messages", Issue 3, February 1999, Revision 3, August 1999, OTGR Section 12.2.

GR-202-CORE "Network Maintenance: Loop Testing Messages At The OS/TSC Interface", Issue 2, November 1995, OTGR Section 12.5R.

GR-833-CORE "Network Maintenance: Network Element and Transport Surveillance Messages", Issue 3, February 1999, OTGR Section 12.3.

TR-NWT-000835 "Operations Application Messages - Network Element and Network System Security Administration Messages", Issue 3, January 1993, OTGR Section 12.5.

GR-1093-CORE "Generic State Requirements for Network Elements", Issue 1, October 1994, Revision 1, December 1995.

Access Identifier Definitions (AID):

The access identifier defines entities within the system and are of the following generic format:

(Node Id)-(Shelf Id)-(Slot Id)-(Port Id).....

(Node Id)-(Shelf Id)-(Slot Id)-(Port Id)-(Level 1 Id)-

(Node Id)-(Entity Id)

These are the TL1 commands supported by the Calix C7 Platform.

Version

V1.2.00i

Baseline: R06.00.048_I60P_0000

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[ED-ADSL](#)

[ENT-ADSL](#)

[ENT-TMPLT-ADSL](#)

[INIT-ADSL](#)

[INIT-PWR-ADSL](#)

[REPT RMV ADSL](#)

[REPT RST ADSL](#)
[RMV-ADSL](#)
[RST-ADSL](#)
[RTRV-ADSL](#)
[RTRV-ATU](#)
[RTRV-CSTAT-ADSL](#)
[RTRV-TMPLT-ADSL](#)

Bandwidth Management

[DLT-BWC](#)
[DLT-BWCLINK](#)
[ED-BWC](#)
[ED-BWCLINK](#)
[ENT-BWC](#)
[ENT-BWCLINK](#)
[RTRV-BW-PROV](#)
[RTRV-BWC](#)
[RTRV-BWCLINK](#)

Cross Connect

[DLT-CRS-<STSN>](#)
[DLT-CRS-T1](#)
[DLT-CRS-VC](#)
[DLT-CRS-VIDVC](#)
[DLT-CRS-VP](#)
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[ED-CRS-VC](#)
[ED-CRS-VIDVC](#)
[ED-CRS-VP](#)
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[ENT-CRS-T1](#)
[ENT-CRS-VC](#)
[ENT-CRS-VIDVC](#)
[ENT-CRS-VP](#)
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[MV-CRS-VP](#)
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[RTRV-CRS-T1](#)
[RTRV-CRS-VC](#)
[RTRV-CRS-VIDVC](#)
[RTRV-CRS-VP](#)

DS0 Facility

[DLT-T0](#)
[ED-T0](#)
[ENT-T0](#)

[REPT RMV T0](#)
[REPT RST T0](#)
[RMV-T0](#)
[RST-T0](#)
[RTRV-CSTAT-T0](#)
[RTRV-T0](#)

DS1 Facility

[DLT-T1](#)
[ED-T1](#)
[ENT-T1](#)
[OPR-LPBK-T1](#)
[REPT RMV T1](#)
[REPT RST T1](#)
[RLS-LPBK-T1](#)
[RMV-T1](#)
[RST-T1](#)
[RTRV-T1](#)

DS3 Facility

[DLT-T3](#)
[ED-T3](#)
[ENT-T3](#)
[OPR-LPBK-T3](#)
[REPT RMV T3](#)
[REPT RST T3](#)
[RLS-LPBK-T3](#)
[RMV-T3](#)
[RST-T3](#)
[RTRV-T3](#)

Deprecated

[DLT-IG-CRV](#)
[ENT-IG-CRV](#)
[RTRV-IG-CRV](#)

EC1 Facility

[DLT-EC1](#)
[ED-EC1](#)
[ENT-EC1](#)
[OPR-LPBK-EC1](#)
[REPT RMV EC1](#)
[REPT RST EC1](#)

[RLS-LPBK-EC1](#)
[RMV-EC1](#)
[RST-EC1](#)
[RTRV-EC1](#)

Environment

[OPR-EXT-CONT](#)
[RLS-EXT-CONT](#)
[RTRV-ATTR-CONT](#)
[RTRV-ATTR-ENV](#)
[RTRV-EXT-CONT](#)
[SET-ATTR-CONT](#)
[SET-ATTR-ENV](#)

Equipment

[DLT-EQPT](#)
[ED-EQPT](#)
[ENT-EQPT](#)
[REPT RMV EQPT](#)
[REPT RST EQPT](#)
[RMV-EQPT](#)
[RST-EQPT](#)
[RTRV-EQPT](#)

Ethernet

[DLT-AGG](#)
[DLT-AGG-ACL](#)
[DLT-AGG-PORT](#)
[DLT-ETH](#)
[DLT-ETH-ACL](#)
[DLT-LSWITCH](#)
[DLT-LSWITCH-PORT](#)
[DLT-PROF-ETH](#)
[DLT-XLAN](#)
[ED-ETH](#)
[ED-XLAN](#)
[ENT-AGG](#)
[ENT-AGG-ACL](#)
[ENT-AGG-PORT](#)
[ENT-ETH](#)
[ENT-ETH-ACL](#)
[ENT-LSWITCH](#)
[ENT-LSWITCH-PORT](#)
[ENT-PROF-ETH](#)
[ENT-XLAN](#)
[INIT-LSWITCH](#)

[INIT-STAT-ETH](#)
[REPT RMV ETH](#)
[REPT RST ETH](#)
[RMV-ETH](#)
[RST-ETH](#)
[RTRV-AGG](#)
[RTRV-AGG-ACL](#)
[RTRV-AGG-PORT](#)
[RTRV-ETH](#)
[RTRV-ETH-ACL](#)
[RTRV-LSWITCH](#)
[RTRV-LSWITCH-PORT](#)
[RTRV-PROF-ETH](#)
[RTRV-SFP](#)
[RTRV-STAT-ETH](#)
[RTRV-XLAN](#)

Fault

[ALW-MSG-ALL](#)
[ALW-MSG-SECU](#)
[INH-MSG-ALL](#)
[INH-MSG-SECU](#)
[OPR-ACQ](#)
[REPT ALM <OCN>](#)
[REPT ALM <STSN>](#)
[REPT ALM ADSL](#)
[REPT ALM AP](#)
[REPT ALM AVO](#)
[REPT ALM BWCLINK](#)
[REPT ALM CMS](#)
[REPT ALM EC1](#)
[REPT ALM ENV](#)
[REPT ALM EQPT](#)
[REPT ALM ETH](#)
[REPT ALM GR303](#)
[REPT ALM H248](#)
[REPT ALM HDSL](#)
[REPT ALM IMA](#)
[REPT ALM IMALINK](#)
[REPT ALM LSWPORT](#)
[REPT ALM NTWK](#)
[REPT ALM ONT](#)
[REPT ALM PON](#)
[REPT ALM PP](#)
[REPT ALM PPL](#)
[REPT ALM RFVID](#)
[REPT ALM SECU](#)
[REPT ALM SHELF](#)
[REPT ALM SIP](#)
[REPT ALM SIPVCG](#)
[REPT ALM T0](#)

[REPT ALM T1](#)
[REPT ALM T1TG](#)
[REPT ALM T3](#)
[REPT ALM TMG](#)
[REPT ALM VB](#)
[REPT ALM VCG](#)
[REPT ALM VR](#)
[REPT ALM VRP](#)
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[REPT EVT BWCLINK](#)
[REPT EVT CONT](#)
[REPT EVT EC1](#)
[REPT EVT EQPT](#)
[REPT EVT ETH](#)
[REPT EVT GR303](#)
[REPT EVT HDSL](#)
[REPT EVT IMA](#)
[REPT EVT IMALINK](#)
[REPT EVT LOG](#)
[REPT EVT LSWPORT](#)
[REPT EVT MEM](#)
[REPT EVT ONT](#)
[REPT EVT PP](#)
[REPT EVT PPL](#)
[REPT EVT SECU](#)
[REPT EVT SHELF](#)
[REPT EVT T0](#)
[REPT EVT T1](#)
[REPT EVT T1TG](#)
[REPT EVT T3](#)
[REPT EVT TMG](#)
[REPT EVT TOPO](#)
[REPT EVT VB](#)
[REPT EVT VC](#)
[REPT EVT VIDSUB](#)
[REPT EVT VODEFLOW](#)
[REPT EVT VP](#)
[REPT EVT VR](#)
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[RTRV-ALM-ALL](#)
[RTRV-ALM-AP](#)
[RTRV-ALM-AVO](#)
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[RTRV-ALM-EC1](#)
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[RTRV-ALM-EQPT](#)
[RTRV-ALM-ETH](#)
[RTRV-ALM-GR303](#)

[RTRV-ALM-H248](#)
[RTRV-ALM-HDSL](#)
[RTRV-ALM-IMA](#)
[RTRV-ALM-IMALINK](#)
[RTRV-ALM-LSWPORT](#)
[RTRV-ALM-ONT](#)
[RTRV-ALM-PON](#)
[RTRV-ALM-PP](#)
[RTRV-ALM-PPL](#)
[RTRV-ALM-PPPOEHOSTS](#)
[RTRV-ALM-RFVID](#)
[RTRV-ALM-SECU](#)
[RTRV-ALM-SHELF](#)
[RTRV-ALM-SIP](#)
[RTRV-ALM-SIPVCG](#)
[RTRV-ALM-T0](#)
[RTRV-ALM-T1](#)
[RTRV-ALM-T1TG](#)
[RTRV-ALM-T3](#)
[RTRV-ALM-TMG](#)
[RTRV-ALM-VB](#)
[RTRV-ALM-VCG](#)
[RTRV-ALM-VR](#)
[RTRV-ALM-VRP](#)
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[RTRV-COND-EC1](#)
[RTRV-COND-ENV](#)
[RTRV-COND-EQPT](#)
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[RTRV-COND-GR303](#)
[RTRV-COND-H248](#)
[RTRV-COND-HDSL](#)
[RTRV-COND-IMA](#)
[RTRV-COND-LOG](#)
[RTRV-COND-LSWPORT](#)
[RTRV-COND-ONT](#)
[RTRV-COND-PON](#)
[RTRV-COND-PP](#)
[RTRV-COND-PPL](#)
[RTRV-COND-SECU](#)
[RTRV-COND-SHELF](#)
[RTRV-COND-T0](#)
[RTRV-COND-T1](#)
[RTRV-COND-T1TG](#)
[RTRV-COND-T3](#)
[RTRV-COND-TMG](#)
[RTRV-COND-VCG](#)
[RTRV-COND-VRP](#)
[SET-ACO](#)

HDSL Facility

[DLT-HDSL](#)
[ED-HDSL](#)
[ENT-HDSL](#)
[INIT-HDSL](#)
[OPR-LPBK-HDSL](#)
[REPT RMV HDSL](#)
[REPT RST HDSL](#)
[RLS-LPBK-HDSL](#)
[RMV-HDSL](#)
[RST-HDSL](#)
[RTRV-CSTAT-HDSL](#)
[RTRV-HDSL](#)
[RTRV-HTU](#)

IMA Group

[DLT-AP](#)
[DLT-AP-T1](#)
[DLT-IMA](#)
[DLT-IMA-PORT](#)
[ED-AP](#)
[ED-IMA](#)
[ENT-AP](#)
[ENT-AP-T1](#)
[ENT-IMA](#)
[ENT-IMA-PORT](#)
[REPT RMV AP](#)
[REPT RST AP](#)
[RMV-AP](#)
[RMV-IMA](#)
[RST-AP](#)
[RST-IMA](#)
[RTRV-AP](#)
[RTRV-IMA](#)

IP

[DLT-CVIDREG](#)
[DLT-DHCP-OUI](#)
[DLT-DHCPSVR](#)
[DLT-IGMP-JOIN](#)
[DLT-IP-HOST](#)
[DLT-IP-IF](#)
[DLT-IP-ROUTE](#)
[DLT-IPIF-PORT](#)
[DLT-MACHOST](#)

[DLT-TMPLT-VLANVBPORT](#)
[DLT-VB](#)
[DLT-VBPORT](#)
[DLT-VLAN](#)
[DLT-VLAN-PORT](#)
[DLT-VLAN-VBPORT](#)
[DLT-VR](#)
[DLT-VRPORT](#)
[ED-ARP](#)
[ED-CVIDREG](#)
[ED-DHCPSVR](#)
[ED-IGMP](#)
[ED-IPIF-PORT](#)
[ED-MACHOST](#)
[ED-STP-GROUP](#)
[ED-TMPLT-VLANVBPORT](#)
[ED-VB](#)
[ED-VBPORT](#)
[ED-VLAN](#)
[ED-VLAN-PORT](#)
[ED-VLAN-VBPORT](#)
[ED-VR](#)
[ENT-CVIDREG](#)
[ENT-DHCP-OUI](#)
[ENT-DHCPSVR](#)
[ENT-IGMP-JOIN](#)
[ENT-IP-HOST](#)
[ENT-IP-IF](#)
[ENT-IP-ROUTE](#)
[ENT-IPIF-PORT](#)
[ENT-MACHOST](#)
[ENT-TMPLT-VLANVBPORT](#)
[ENT-VB](#)
[ENT-VBPORT](#)
[ENT-VLAN](#)
[ENT-VLAN-PORT](#)
[ENT-VLAN-VBPORT](#)
[ENT-VR](#)
[ENT-VRPORT](#)
[INIT-STAT-DHCPL2RELAY](#)
[INIT-STAT-IP](#)
[INIT-STAT-UDP](#)
[PING-IP-HOST](#)
[RTRV-ARP](#)
[RTRV-CVIDREG](#)
[RTRV-DHCP-LEASE](#)
[RTRV-DHCP-OUI](#)
[RTRV-DHCPSVR](#)
[RTRV-IGMP](#)
[RTRV-IGMP-JOIN](#)
[RTRV-IP-HOST](#)
[RTRV-IP-IF](#)
[RTRV-IP-ROUTE](#)
[RTRV-IPIF-PORT](#)

[RTRV-MACHOST](#)
[RTRV-STAT-DHCPL2RELAY](#)
[RTRV-STAT-IP](#)
[RTRV-STAT-UDP](#)
[RTRV-STP-GROUP](#)
[RTRV-TMPLT-VLANVBPORT](#)
[RTRV-VB](#)
[RTRV-VBPORT](#)
[RTRV-VLAN](#)
[RTRV-VLAN-PORT](#)
[RTRV-VLAN-VBPORT](#)
[RTRV-VR](#)
[RTRV-VRPORT](#)
[TRACE-IP-HOST](#)

Log

[INIT-LOG](#)
[RTRV-LOG](#)

Loop Testing

[CHG-SPLIT](#)
[CONN-FPACC-MET](#)
[CONN-LPACC-MET](#)
[CONN-MON](#)
[CONN-TACC-MET](#)
[DISC-FPACC-MET](#)
[DISC-TACC](#)
[DLT-TGRP](#)
[ED-FPACC](#)
[ED-TGRP](#)
[ENT-TGRP](#)
[REPT-STAT](#)
[RTRV-FPACC](#)
[RTRV-TGRP](#)
[TST-ITACC-MET](#)
[TST-ONT-MET](#)

Management Interface

[ABT-CMD](#)
[ACT-CRS-OW](#)
[DLT-CRS-DCC](#)
[DLT-CRS-OW](#)
[DLT-SNMP-ACL](#)
[ED-IFCONFIG](#)
[ED-LINK](#)
[ED-SERIAL](#)

[ED-SNMP](#)
[ED-SNMP-TRAP](#)
[ENT-CRS-DCC](#)
[ENT-CRS-OW](#)
[ENT-SNMP-ACL](#)
[RTRV-CRS-DCC](#)
[RTRV-CRS-OW](#)
[RTRV-IFCONFIG](#)
[RTRV-LINK](#)
[RTRV-SERIAL](#)
[RTRV-SNMP](#)
[RTRV-SNMP-ACL](#)
[RTRV-SNMP-TRAP](#)

OCn Facility

[DLT-<OCN>](#)
[ED-<OCN>](#)
[ENT-<OCN>](#)
[OPR-LPBK-<OCN>](#)
[REPT RMV <OCN>](#)
[REPT RST <OCN>](#)
[RLS-LPBK-<OCN>](#)
[RMV-<OCN>](#)
[RST-<OCN>](#)
[RTRV-<OCN>](#)

PON

[DLT-AVO](#)
[DLT-ONT](#)
[DLT-PON](#)
[DLT-PROF-ONT](#)
[DLT-RFVID](#)
[DLT-VRP](#)
[ED-AVO](#)
[ED-ONT](#)
[ED-PON](#)
[ED-PROF-ONT](#)
[ED-RFVID](#)
[ED-VRP](#)
[ENT-AVO](#)
[ENT-ONT](#)
[ENT-PON](#)
[ENT-PROF-ONT](#)
[ENT-RFVID](#)
[ENT-VRP](#)
[INIT-ONT-UA](#)
[REPT RMV AVO](#)
[REPT RMV ONT](#)

[REPT RMV PON](#)
[REPT RMV RFVID](#)
[REPT RST AVO](#)
[REPT RST ONT](#)
[REPT RST PON](#)
[REPT RST RFVID](#)
[RMV-AVO](#)
[RMV-ONT](#)
[RMV-PON](#)
[RMV-RFVID](#)
[RST-AVO](#)
[RST-ONT](#)
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[RST-RFVID](#)
[RTRV-AVO](#)
[RTRV-ONT](#)
[RTRV-ONT-UA](#)
[RTRV-PON](#)
[RTRV-PROF-ONT](#)
[RTRV-RFVID](#)
[RTRV-STAT-HPNA](#)
[RTRV-STAT-RFR](#)
[RTRV-VRP](#)

PPPOE

[CANC-PPPOESESS](#)
[DLT-PPPOEAC](#)
[DLT-PPPOEHOST](#)
[INIT-STAT-PPPOA](#)
[INIT-STAT-PPPOE](#)
[INIT-STAT-PPPOEAC](#)
[RTRV-PPPOEAC](#)
[RTRV-PPPOEHOST](#)
[RTRV-PPPOESESS](#)
[RTRV-STAT-PPPOA](#)
[RTRV-STAT-PPPOE](#)
[RTRV-STAT-PPPOEAC](#)

Performance Monitoring

[DLT-GOS-<OCN>](#)
[DLT-GOS-<STSN>](#)
[DLT-GOS-ADSL](#)
[DLT-GOS-AP](#)
[DLT-GOS-EC1](#)
[DLT-GOS-ETH](#)
[DLT-GOS-HDSL](#)
[DLT-GOS-IMA](#)
[DLT-GOS-IMALINK](#)

[DLT-GOS-ONT](#)
[DLT-GOS-T1](#)
[DLT-GOS-T3](#)
[ED-GOS-<OCN>](#)
[ED-GOS-<STSN>](#)
[ED-GOS-ADSL](#)
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[ED-GOS-ETH](#)
[ED-GOS-HDSL](#)
[ED-GOS-IMA](#)
[ED-GOS-IMALINK](#)
[ED-GOS-ONT](#)
[ED-GOS-T1](#)
[ED-GOS-T3](#)
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[ENT-GOS-AP](#)
[ENT-GOS-EC1](#)
[ENT-GOS-ETH](#)
[ENT-GOS-HDSL](#)
[ENT-GOS-IMA](#)
[ENT-GOS-IMALINK](#)
[ENT-GOS-ONT](#)
[ENT-GOS-T1](#)
[ENT-GOS-T3](#)
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[INIT-REG-AP](#)
[INIT-REG-EC1](#)
[INIT-REG-HDSL](#)
[INIT-REG-IMA](#)
[INIT-REG-IMALINK](#)
[INIT-REG-ONT](#)
[INIT-REG-ONTPORTS](#)
[INIT-REG-T1](#)
[INIT-REG-T3](#)
[INIT-REG-VIDCHAN](#)
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[RTRV-GOS-ETH](#)
[RTRV-GOS-HDSL](#)
[RTRV-GOS-IMA](#)
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[RTRV-GOS-ONT](#)
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[RTRV-GOS-T3](#)
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[RTRV-PM-ETH](#)
[RTRV-PM-HDSL](#)
[RTRV-PM-IMA](#)
[RTRV-PM-IMALINK](#)
[RTRV-PM-ONT](#)
[RTRV-PM-T1](#)
[RTRV-PM-T3](#)
[RTRV-PM-VIDCHAN](#)

Protection Switching

[ALW-Swdx-EQPT](#)
[ALW-Swdx-GR303](#)
[ALW-Swdx-T1TG](#)
[ALW-Swtoprotn-EQPT](#)
[ALW-Swtowkg-EQPT](#)
[DLT-FFP-<OCN>](#)
[ED-FFP-<OCN>](#)
[ENT-FFP-<OCN>](#)
[ENT-PPL](#)
[INH-Swdx-EQPT](#)
[INH-Swdx-GR303](#)
[INH-Swdx-T1TG](#)
[INH-Swtoprotn-EQPT](#)
[INH-Swtowkg-EQPT](#)
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[OPR-PROTNsw-<STSN>](#)
[OPR-PROTNsw-PPL](#)
[OPR-Syncnsw](#)
[REPT SW](#)
[REPT SW GR303](#)
[REPT SW T1TG](#)
[RLS-Protnsw-<OCN>](#)
[RLS-Protnsw-<STSN>](#)
[RLS-Protnsw-PPL](#)
[RLS-Syncnsw](#)
[RTRV-FFP-<OCN>](#)
[RTRV-PPL](#)
[SW-Dx-EQPT](#)
[SW-Dx-GR303](#)
[SW-Dx-T1TG](#)
[SW-Swtoprotn-EQPT](#)
[SW-Swtowkg-EQPT](#)

STS_n Path

[DLT-<STSN>](#)

[ED-<STSN>](#)
[ENT-<STSN>](#)
[REPT RMV <STSN>](#)
[REPT RST <STSN>](#)
[RMV-<STSN>](#)
[RST-<STSN>](#)
[RTRV-<STSN>](#)

Security

[ACT-USER](#)
[ALW-USER-SECU](#)
[CANC](#)
[CANC-CID-SECU](#)
[CANC-SES-SECU](#)
[CANC-USER](#)
[DLT-TMPLT-SECU](#)
[DLT-USER-ACL](#)
[DLT-USER-SECU](#)
[ED-PID](#)
[ED-RADIUS](#)
[ED-SSH](#)
[ED-SYS-SECU](#)
[ED-TMPLT-SECU](#)
[ED-USER-SECU](#)
[ENT-TMPLT-SECU](#)
[ENT-USER-ACL](#)
[ENT-USER-SECU](#)
[INH-USER-SECU](#)
[RTRV-RADIUS](#)
[RTRV-SSH](#)
[RTRV-STATUS](#)
[RTRV-SYS-SECU](#)
[RTRV-TMPLT-SECU](#)
[RTRV-USER-ACL](#)
[RTRV-USER-SECU](#)

System

[ALW-CMD-RESTR](#)
[ALW-STBY-UPGRD](#)
[DLT-ALM-SHELF](#)
[DLT-NODE](#)
[DLT-RMTDEV](#)
[ED-DAT](#)
[ED-NODE](#)
[ED-RMTDEV](#)
[ED-SHELF](#)
[ED-SYS](#)
[ENT-NODE](#)

[ENT-RMTDEV](#)
[ENT-SHELF](#)
[INH-CMD-RESTR](#)
[INH-STBY-UPGRD](#)
[INIT-SYS](#)
[OPR-BAR](#)
[OPR-DEBUG](#)
[RTRV-BAR](#)
[RTRV-HDR](#)
[RTRV-NETYPE](#)
[RTRV-NODE](#)
[RTRV-NTWK-CNFG](#)
[RTRV-RMTDEV](#)
[RTRV-RMTDEV-DISC](#)
[RTRV-SHELF](#)
[RTRV-SYS](#)

TDM Services

[DLT-CRS-T0](#)
[DLT-GR303](#)
[DLT-GR8](#)
[DLT-IG-CSHELF](#)
[DLT-IG-DS1](#)
[DLT-IG-VDS1](#)
[DLT-IG-VSP](#)
[DLT-PROF-IKE](#)
[DLT-T1TG](#)
[DLT-VCG](#)
[DLT-VCGLINK](#)
[DLT-VSP](#)
[ED-DLPROF](#)
[ED-GR303](#)
[ED-GR8](#)
[ED-IG-CSHELF](#)
[ED-PROF-IKE](#)
[ED-VCG](#)
[ED-VSP](#)
[ENT-CRS-T0](#)
[ENT-GR303](#)
[ENT-GR8](#)
[ENT-IG-CSHELF](#)
[ENT-IG-DS1](#)
[ENT-IG-VDS1](#)
[ENT-IG-VSP](#)
[ENT-PROF-IKE](#)
[ENT-T1TG](#)
[ENT-VCG](#)
[ENT-VCGLINK](#)
[ENT-VSP](#)
[RTRV-CRS-T0](#)
[RTRV-DLPROF](#)

[RTRV-DLSTAT-GR303](#)
[RTRV-DLSTAT-T1TG](#)
[RTRV-GR303](#)
[RTRV-GR8](#)
[RTRV-IG](#)
[RTRV-IG-CSHELF](#)
[RTRV-IG-DS1](#)
[RTRV-IG-VDS1](#)
[RTRV-IG-VSP](#)
[RTRV-PROF-IKE](#)
[RTRV-T1TG](#)
[RTRV-TRAF](#)
[RTRV-VCG](#)
[RTRV-VCGLINK](#)
[RTRV-VDS1](#)
[RTRV-VSP](#)

Timing

[ED-TMG](#)
[RTRV-TMG](#)

VOIP

[DLT-H248](#)
[DLT-SIP](#)
[DLT-SIPT0](#)
[DLT-SIPVCG](#)
[ED-H248](#)
[ED-SIP](#)
[ED-SIPT0](#)
[ED-SIPVCG](#)
[ENT-H248](#)
[ENT-SIP](#)
[ENT-SIPT0](#)
[ENT-SIPVCG](#)
[INIT-HOST-IP](#)
[INIT-SIP](#)
[RTRV-CSTAT-SIPT0](#)
[RTRV-H248](#)
[RTRV-SIP](#)
[RTRV-SIPT0](#)
[RTRV-SIPVCG](#)

Video

[DLT-SUBIF-BINDING](#)
[DLT-VID-CHAN](#)
[DLT-VID-IRCLOC](#)

[DLT-VID-SUB](#)
[DLT-VID-SVC](#)
[DLT-VODCLNT](#)
[DLT-VODDSTLU](#)
[DLT-VODFLOW](#)
[DLT-VODSRCLU](#)
[DLT-VODSVR](#)
[ED-VID-CHAN](#)
[ED-VID-SUB](#)
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[ENT-SUBIF-BINDING](#)
[ENT-VID-CHAN](#)
[ENT-VID-IRCLOC](#)
[ENT-VID-SUB](#)
[ENT-VID-SVC](#)
[ENT-VODDSTLU](#)
[RTRV-SUBIF-BINDING](#)
[RTRV-VID-CHAN](#)
[RTRV-VID-IRCLOC](#)
[RTRV-VID-SUB](#)
[RTRV-VID-SVC](#)
[RTRV-VODCLNT](#)
[RTRV-VODDSTLU](#)
[RTRV-VODFLOW](#)
[RTRV-VODSRCLU](#)
[RTRV-VODSVR](#)

Virtual Facility

[ACT-PROTN-VC](#)
[ACT-PROTN-VP](#)
[DLT-PP](#)
[DLT-PROF-TRF](#)
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[INIT-CSTAT-VC](#)
[INIT-CSTAT-VP](#)
[INJ-LPBK-VC](#)
[INJ-LPBK-VP](#)
[OPR-CC-VC](#)
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[RLS-CC-VP](#)
[RMV-PP](#)
[RST-PP](#)
[RTRV-CSTAT-VC](#)
[RTRV-CSTAT-VP](#)
[RTRV-PP](#)

[RTRV-PROF-TRF](#)
[RTRV-VTI](#)

ABT-CMD

Name

ABT-CMD: Abort Command

Description

Category: Management Interface **Security:** N/A

This command is used to abort an in-progress command, by referring to the ctag of that command. Ctags are not unique, but the ABT-CMD itself will never be the target of the abort request.

Input Format

```
ABT-CMD:[TID]::[CTAG]::[<CMDTAG>];
```

Input Parameters

CMDTAG This is the CTAG of the command that should be aborted. If omitted, the default ctag of "1" is used for the CMDTAG. *CMDTAG* is a String. The default value is ""1"".

Input Example

```
ABT-CMD:SYS1::1234::CMDTAG;
```

Errors

This message generates all of the [Default Errors](#).

ACT-CRS-OW

Name

ACT-CRS-OW: Activate Cross Connect OW

Description

Category: Management Interface **Security:** N/A

This command signals that the cross-connect is active.

This command is not currently supported.

Related Messages:

[DLT-CRS-OW](#)

[ED-IFCONFIG](#)

[ED-SERIAL](#)

[ENT-CRS-OW](#)

[RTRV-CRS-OW](#)

[RTRV-IFCONFIG](#)

[RTRV-SERIAL](#)

Input Format

```
ACT-CRS-OW:[TID]:<OWSrcPortAid>,<OWDstPortAid>:[CTAG];
```

Input Parameters

OWSrcPortAid Source (From) Access Identifier. The address of the source (from) endpoint of the cross-connect being activated. *OWSrcPortAid* is the AID [OWAid](#).

OWDstPortAid Destination (To) Access Identifier. The address of the destination (to) endpoint of the cross-connect being activated. *OWDstPortAid* is the AID [OWAid](#).

Input Example

```
ACT-CRS-OW:SYS3:N3-4-9-1-LINEOW,N8-3-9-1-LINEOW:489;
```

Errors

This message generates all of the [Default Errors](#).

ACT-PROTN-VC

Name

ACT-PROTN-VC: Activate PROTN Virtual Circuit

Description

Category: Virtual Facility **Security:** Memory Admin - by rate

This command manually activates ORP protection on a Virtual Circuit. It will only be effective if it is executed AFTER a complete set of working and protection circuits have been configured.

Related Messages:

ACT-PROTN-VP	DLT-CRS-VC
DLT-CRS-VP	DLT-PP
DLT-PROF-TRF	ED-CRS-VC
ED-CRS-VP	ED-PROF-TRF
ENT-CRS-VC	ENT-CRS-VP
ENT-PP	ENT-PROF-TRF
INIT-CSTAT-VC	INIT-CSTAT-VP
INJ-LPBK-VC	INJ-LPBK-VP
MV-CRS-VC	MV-CRS-VP
OPR-CC-VC	OPR-CC-VP
REPT ALM PP	REPT EVT PP
REPT EVT VC	REPT EVT VP
REPT RMV PP	REPT RST PP
RLS-CC-VC	RLS-CC-VP
RMV-PP	RST-PP
RTRV-ALM-PP	RTRV-COND-PP
RTRV-CRS-VC	RTRV-CRS-VP
RTRV-CSTAT-VC	RTRV-CSTAT-VP
RTRV-PP	RTRV-PROF-TRF
RTRV-VTI	

Input Format

```
ACT-PROTN-
VC:[TID]:<WorkSrcVcAid>,<ProtSrcVcAid>:[CTAG]:::[PC=<PC>];
```

Input Parameters

WorkSrcVcAid Working Source Virtual Circuit Access Identifier. This is the AID of the source (from) endpoint of the Working (as opposed to Protection) Virtual Circuit for the connection. It must not identify the endpoint which is common to both the Working and Protection Virtual Circuits. Rather, it identifies the first point which is unique to the Working Virtual Circuit. Note that for a unidirectional ring, WorkSrcVcAid is the address of the

port which transmits the working traffic, which is also the port which is receiving the protection traffic (and is hence the protection side of the facility protection group). *WorkSrcVcAid* is the AID [VcId2](#).

- ProtSrcVcAid** Protection Source Virtual Circuit Access Identifier. This is the AID of the source (from) endpoint of the Protection (as opposed to Working) Virtual Circuit for the connection. It must not identify the endpoint which is common to both the Working and Protection Circuits. Rather, it identifies the first point which is unique to the Protection Virtual Circuit. *ProtSrcVcAid* is the AID [VcId2](#).
- PC** Protection Class - Indicates whether the cross connect is uses Bridged or UnBridged protection. *PC* is of type [ProtClassAny](#) and can be one of the following values: "BR", "DEFAULT", "UNBR".

Input Example

```
ACT-PROTN-VC:SYS1:N5-4-3-2-1-VP99-VC88,N5-4-4-2-1-VP99-
VC88:1234:::PC=BR;
```

Errors

This message generates all of the [Default Errors](#).

ACT-PROTN-VP

Name

ACT-PROTN-VP: Activate PROTN Virtual Path

Description

Category: Virtual Facility **Security:** Memory Admin - by rate

This command manually activates ORP protection on a Virtual Path. It will only be effective if it is executed AFTER a complete set of working and protection paths have been configured.

Related Messages:

[ACT-PROTN-VC](#)
[DLT-CRS-VP](#)
[DLT-PROF-TRF](#)
[ED-CRS-VP](#)
[ENT-CRS-VC](#)
[ENT-PP](#)
[INIT-CSTAT-VC](#)

[DLT-CRS-VC](#)
[DLT-PP](#)
[ED-CRS-VC](#)
[ED-PROF-TRF](#)
[ENT-CRS-VP](#)
[ENT-PROF-TRF](#)
[INIT-CSTAT-VP](#)

<u>INJ-LPBK-VC</u>	<u>INJ-LPBK-VP</u>
<u>MV-CRS-VC</u>	<u>MV-CRS-VP</u>
<u>OPR-CC-VC</u>	<u>OPR-CC-VP</u>
<u>REPT ALM PP</u>	<u>REPT EVT PP</u>
<u>REPT EVT VC</u>	<u>REPT EVT VP</u>
<u>REPT RMV PP</u>	<u>REPT RST PP</u>
<u>RLS-CC-VC</u>	<u>RLS-CC-VP</u>
<u>RMV-PP</u>	<u>RST-PP</u>
<u>RTRV-ALM-PP</u>	<u>RTRV-COND-PP</u>
<u>RTRV-CRS-VC</u>	<u>RTRV-CRS-VP</u>
<u>RTRV-CSTAT-VC</u>	<u>RTRV-CSTAT-VP</u>
<u>RTRV-PP</u>	<u>RTRV-PROF-TRF</u>
<u>RTRV-VTI</u>	

Input Format

ACT-PROTN-
VP:[TID]:<WorkSrcVpAid>,<ProtSrcVpAid>:[CTAG]:::[PC=<PC>];

Input Parameters

WorkSrcVpAid Working Source Virtual Path Access Identifier. This is the AID of the source (from) endpoint of the Working (as opposed to Protection) Virtual Path for the connection. It must not identify the endpoint which is common to both the Working and Protection Paths. Rather, it identifies the first point which is unique to the Working Virtual Path. *WorkSrcVpAid* is the AID [VpAid](#).

ProtSrcVpAid Protection Source Virtual Path Access Identifier. This is the AID of the source (from) endpoint of the Protection (as opposed to Working) Virtual Path for the connection. It must not identify the endpoint which is common to both the Working and Protection Paths. Rather, it identifies the first point which is unique to the Protection Virtual Path. *ProtSrcVpAid* is the AID [VpAid](#).

PC Protection Class - Indicates whether the cross connect is uses Bridged or UnBridged protection. *PC* is of type [ProtClassAny](#) and can be one of the following values: "BR", "DEFAULT", "UNBR".

Input Example

ACT-PROTN-VP:SYS1:N5-4-3-2-1-VP99,N5-4-4-2-1-VP99:1234:::PC=BR;

Errors

This message generates all of the [Default Errors](#).

ACT-USER

Name

ACT-USER: Login

Description

Category: Security **Security:** Security User

This command is used to establish a session with the C7 network. The user should always terminate the session using the CANC-USER (Cancel User) command.

The user is required to provide a password which is verified before the user session is activated. If an invalid session setup attempt occurs, the login will be deny with no error.

Defined in TR-835.

Related Messages:

ALW-USER-SECU	CANC
CANC-CID-SECU	CANC-PPPOESESS
CANC-SES-SECU	CANC-USER
DLT-USER-ACL	DLT-USER-SECU
ED-PID	ED-USER-SECU
ENT-USER-ACL	ENT-USER-SECU
INH-USER-SECU	RTRV-USER-ACL
RTRV-USER-SECU	

Input Format

```
ACT-USER : [ TID ] : <UID> : [ CTAG ] : : <PID> ;
```

Input Parameters

UID User Identifier. It is a non-confidential identifier that uniquely determines a user. The user's identifier is any combination of alphanumeric characters 4 to 10 characters long and is case-sensitive. *UID* is a String.

PID The password must conform to the rules provisioned via ED-SYS-SECU. *PID* is a String.

Input Example

```
ACT-USER : SYSTEM1 : JOEY : 123 : : * * * * * * * ;
```

ALW-CMD-RESTR

Name

ALW-CMD-RESTR: Allow Command Restricted

Description

Category: System **Security:** System Administration

This command is used to allow restricted commands and/or parameters to be entered into the system. It should only be used by expert users.

By default, restricted commands are inhibited upon login and not persisted across sessions. Use the INH-CMD-RESTR command to re-inhibit restricted commands.

Related Messages:

[INH-CMD-RESTR](#)

[RTRV-STATUS](#)

Input Format

```
ALW-CMD-RESTR:[TID]::[CTAG];
```

Input Example

```
ALW-CMD-RESTR:SYS1::3243;
```

Errors

This message generates all of the [Default Errors](#).

ALW-MSG-ALL

Name

ALW-MSG-ALL: ALW MSG ALL

Description

Category: Fault

Security: Security User

This command permits the C7 to resume transmission of automatic messages to the current logged in user after having been in the INH-MSG-ALL (Inhibit Message All) mode.

Parameters are provided to selectively enable messaging based on the notification level and type of condition being reported. The type of condition can be threshold alerts or alarms and events.

If alarms and events were inhibited, then unreported alarms active when transmission is resumed will be transmitted to the user.

Defined in GR-833.

Related Messages:

[INH-MSG-ALL](#)

[RTRV-ACO](#)

[RTRV-COND-ACO](#)

[OPR-ACO](#)

[RTRV-ALM-ALL](#)

[SET-ACO](#)

Input Format

```
ALW-MSG-ALL : [ TID ] :: [ CTAG ] :: [ <NTFCNCDE> ] ;
```

Input Parameters

NTFCNCDE Notification Code. This parameter identifies the notification code of the alarms which the user wants to inhibit. Alarms of a less severe notification code are also inhibited.
NTFCNCDE is of type [NotificationInh](#). The default value is "ALL".

Input Example

```
ALW-MSG-ALL : SYSTEM1 :: 456 :: MN ;
```

Errors

This message generates all of the [Default Errors](#).

ALW-MSG-SECU

Name

ALW-MSG-SECU: Allow Event Security

Description

Category: Fault **Security:** Security Administrator

This command permits the C7 to resume transmission of automatic security messages to the Security Administrator after having been in the INH-MSG-SECU (Inhibit Message Security) mode. By default, security messages are inhibited upon login.

Related Messages:

ALW-USER-SECU	CANC-CID-SECU
CANC-SES-SECU	DLT-TMPLT-SECU
DLT-USER-SECU	ED-RADIUS
ED-SYS-SECU	ED-TMPLT-SECU
ED-USER-SECU	ENT-TMPLT-SECU
ENT-USER-SECU	INH-MSG-SECU
INH-USER-SECU	REPT ALM SECU
REPT EVT SECU	RTRV-ALM-SECU
RTRV-COND-SECU	RTRV-RADIUS
RTRV-STATUS	RTRV-SYS-SECU
RTRV-TMPLT-SECU	RTRV-USER-SECU

Input Format

```
ALW-MSG-SECU:[TID]:::[CTAG];
```

Input Example

```
ALW-MSG-SECU:SYSTEM1::456;
```

Errors

This message generates all of the [Default Errors](#).

ALW-STBY-UPGRD

Name

ALW-STBY-UPGRD: Allow Standby Upgrade

Description

Category: System

Security: System Administration

This command allows the upgrade of the database on the standby RAP when the standby card is plugged in.

Defined by Calix.

Related Messages:

[DLT-ALM-SHELF](#)

[ED-DAT](#)

[ED-SHELF](#)

[ED-SYS-SECU](#)

[ENT-SHELF](#)

[INIT-SYS](#)

[REPT ALM SHELF](#)

[REPT EVT SHELF](#)

[RTRV-BAR](#)

[RTRV-HDR](#)

[RTRV-NODE](#)

[RTRV-SYS](#)

[DLT-NODE](#)

[ED-NODE](#)

[ED-SYS](#)

[ENT-NODE](#)

[INH-STBY-UPGRD](#)

[OPR-BAR](#)

[REPT EVT MEM](#)

[RTRV-ALM-SHELF](#)

[RTRV-COND-SHELF](#)

[RTRV-NETYPE](#)

[RTRV-SHELF](#)

[RTRV-SYS-SECU](#)

Input Format

```
ALW-STBY-UPGRD:[TID]:<ShelfAid>:[CTAG];
```

Input Parameters

ShelfAid Shelf Access Identifier. The address of the shelf where the automatic upgrade of the standby is to be allowed again. *ShelfAid* is the AID [ShelfAid](#).

Input Example

```
ALW-STBY-UPGRD:SYS1:N3-1:321;
```

Errors

This message generates all of the [Default Errors](#).

ALW-Swdx-EQPT

Name

ALW-Swdx-EQPT: Allow Switch Duplex Equipment

Description

Category: Protection Switching

Security: Maintenance - full

This command permits the automatic or manual protection switching on non-revertive 1:1 protection equipment scheme (duplex or redundant) after having been in the INH-Swdx-EQPT (Inhibit Switch Duplex Equipment) mode.

By default 1:1 protection equipment switching is allowed and is only inhibited when the user enters the INH-Swdx-EQPT command. The inhibit state is a persistent state which is maintained over system or card restart.

Note if the RAP contains integrated optics, e.g. RAP-OC3/12, only the control processor on the board is affected by the allow. The optical transport services need to be provisioned as part of a Facility Protection Group in order to be protected.

The command will cause the standby entity to transition out of the STBYI and into the STBY service state and the active unit will transition from NBK to WRK.

The RTRV-COND-EQPT (Retrieve Condition Equipment) request will include the appropriate condition type information.

Defined in GR-833.

Related Messages:

[ALW-SWTOPTN-EQPT](#)
[DLT-EQPT](#)
[ENT-EQPT](#)
[INH-SWTOPTN-EQPT](#)
[REPT ALM EQPT](#)
[REPT RMV EQPT](#)
[RMV-EQPT](#)
[RTRV-ALM-EQPT](#)
[RTRV-EQPT](#)
[SW-TOPROTN-EQPT](#)

[ALW-SWTOWKG-EQPT](#)
[ED-EQPT](#)
[INH-Swdx-EQPT](#)
[INH-SWTOWKG-EQPT](#)
[REPT EVT EQPT](#)
[REPT RST EQPT](#)
[RST-EQPT](#)
[RTRV-COND-EQPT](#)
[SW-DX-EQPT](#)
[SW-TOWKG-EQPT](#)

Input Format

```
ALW-Swdx-EQPT:[TID]:<EqptAid>:[CTAG];
```

Input Parameters

EqptAid Equipment Access Identifier. The address of the equipment which is to be switched. *EqptAid* is the AID [SlotCsAid](#).

Input Example

```
ALW-Swdx-EQPT:SYSTEM1:N1-1-CSA:789;
```

Errors

This message generates all of the [Default Errors](#).

ALW-Swdx-GR303

Name

ALW-Swdx-GR303: Allow Switch Duplex GR303

Description

Category: Protection Switching **Security:** Maintenance - full

This command permits the automatic or manual protection switching the redundant EOC or TMC data links after having been in the INH-Swdx-GR303 (Inhibit Switch Duplex Link) mode.

By default the protection switching of the EOC/TMC data links is allowed and is only inhibited when the user enters the INH-Swdx-GR303 (Inhibit Switch Duplex GR-303) command. The inhibit state is a persistent state which is maintained over system or card restart.

The RTRV-COND-GR303 (Retrieve Condition GR-303) request will include the appropriate condition type information.

Defined by Calix and based on ALW-Swdx in GR-833.

Related Messages:

[ALW-Swdx-T1TG](#)
[DLT-GR303](#)
[DLT-IG-DS1](#)
[ED-GR303](#)
[ENT-CRS-T0](#)
[ENT-GR8](#)
[ENT-T1TG](#)
[INH-Swdx-T1TG](#)

[DLT-CRS-T0](#)
[DLT-GR8](#)
[DLT-T1TG](#)
[ED-GR8](#)
[ENT-GR303](#)
[ENT-IG-DS1](#)
[INH-Swdx-GR303](#)
[REPT ALM GR303](#)

[REPT ALM T1TG](#)
[REPT EVT T1TG](#)
[REPT SW T1TG](#)
[RTRV-ALM-T1TG](#)
[RTRV-COND-T1TG](#)
[RTRV-DLSTAT-GR303](#)
[RTRV-GR303](#)
[RTRV-IG-DS1](#)
[SW-DX-GR303](#)

[REPT EVT GR303](#)
[REPT SW GR303](#)
[RTRV-ALM-GR303](#)
[RTRV-COND-GR303](#)
[RTRV-CRS-T0](#)
[RTRV-DLSTAT-T1TG](#)
[RTRV-GR8](#)
[RTRV-T1TG](#)
[SW-DX-T1TG](#)

Input Format

```
ALW-Swdx-GR303 : [ TID ] : <DataLinkSwAid> : [ CTAG ] ;
```

Input Parameters

DataLinkSwAid Data Link Access Identifier. The address of the data link which is now allowed to provide protection and can now be switched into, either automatically or manually. *DataLinkSwAid* is the AID [IgLinkSwAid](#).

Input Example

```
ALW-Swdx-GR303 : SYSTEM1 : N3-1-IG4-EOC : 234 ;
```

Errors

This message generates all of the [Default Errors](#).

ALW-Swdx-T1TG

Name

ALW-Swdx-T1TG: Allow Switch Duplex T1 Transport Group

Description

Category: Protection Switching **Security:** Maintenance - full

This command permits the automatic or manual protection switching the redundant EOC or TMC data links after having been in the INH-Swdx-T1TG (Inhibit Switch Duplex Link) mode.

By default the protection switching of the EOC/TMC data links is allowed and is only inhibited when the user enters the INH-SWDX-T1TG (Inhibit Switch Duplex T1TG) command. The inhibit state is a persistent state which is maintained over system or card restart.

The RTRV-COND-T1TG (Retrieve Condition T1TG) request will include the appropriate condition type information.

Defined by Calix and based on ALW-SWDX in GR-833.

Related Messages:

[ALW-SWDX-GR303](#)

[DLT-GR303](#)

[DLT-IG-DS1](#)

[ED-GR303](#)

[ENT-CRS-T0](#)

[ENT-GR8](#)

[ENT-T1TG](#)

[INH-SWDX-T1TG](#)

[REPT ALM T1TG](#)

[REPT EVT T1TG](#)

[REPT SW T1TG](#)

[RTRV-ALM-T1TG](#)

[RTRV-COND-T1TG](#)

[RTRV-DLSTAT-GR303](#)

[RTRV-GR303](#)

[RTRV-IG-DS1](#)

[SW-DX-GR303](#)

[DLT-CRS-T0](#)

[DLT-GR8](#)

[DLT-T1TG](#)

[ED-GR8](#)

[ENT-GR303](#)

[ENT-IG-DS1](#)

[INH-SWDX-GR303](#)

[REPT ALM GR303](#)

[REPT EVT GR303](#)

[REPT SW GR303](#)

[RTRV-ALM-GR303](#)

[RTRV-COND-GR303](#)

[RTRV-CRS-T0](#)

[RTRV-DLSTAT-T1TG](#)

[RTRV-GR8](#)

[RTRV-T1TG](#)

[SW-DX-T1TG](#)

Input Format

ALW-SWDX-T1TG:[TID]:<DataLinkSwAid>:[CTAG];

Input Parameters

DataLinkSwAid Data Link Access Identifier. The address of the data link which is now allowed to provide protection and can now be switched into, either automatically or manually.
DataLinkSwAid is the AID [IgLinkSwAid](#).

Input Example

ALW-SWDX-T1TG:SYSTEM1:N3-1-IG4-EOC:234;

Errors

This message generates all of the [Default Errors](#).

ALW-SWTOPROTN-EQPT

Name

ALW-SWTOPROTN-EQPT: Allow Switch To Protection Equipment

Description

Category: Protection Switching **Security:** Maintenance - full

This command permits the automatic or manual protection switching from the working unit to the protection unit in a 1:n or 1:1 protection equipment scheme after having been in the INHIBIT SWITCH TO PROTECTION EQUIPMENT mode.

The protection unit is the unit which is normally in the standby mode waiting to provide protection to a group of working units. The working card is the unit which normally carries the load.

By default, 1:n or 1:1 protection equipment switching is allowed and is only inhibited when the user enters the INH-SWTOPROTN-EQPT command. The inhibit state is a persistent state which is maintained over system or card restart.

The command will cause the protection entity to transition out of the STBYI and into the STBY service state, and the working unit may transition from NBK to WRK if operational.

The RETRIEVE CONDITION request will include the appropriate condition type information.

Defined in GR-833.

Related Messages:

[ALW-Swdx-EQPT](#)
[DLT-EQPT](#)
[ENT-EQPT](#)
[INH-SWTOPROTN-EQPT](#)
[REPT ALM EQPT](#)
[REPT RMV EQPT](#)
[RMV-EQPT](#)
[RTRV-ALM-EQPT](#)
[RTRV-EQPT](#)
[SW-TOPROTN-EQPT](#)

[ALW-SWTOWKG-EQPT](#)
[ED-EQPT](#)
[INH-Swdx-EQPT](#)
[INH-SWTOWKG-EQPT](#)
[REPT EVT EQPT](#)
[REPT RST EQPT](#)
[RST-EQPT](#)
[RTRV-COND-EQPT](#)
[SW-DX-EQPT](#)
[SW-TOWKG-EQPT](#)

Input Format

ALW-SWTOPROTN-EQPT:[TID]:<EqptAid>:[CTAG];
--

Input Parameters

EqptAid Equipment Protection Access Identifier. The address of the protection equipment unit which is to be allowed to accept the load from any of the working units that have been configured to be protected by it. *EqptAid* is the AID [SlotLuAid](#).

Input Example

```
ALW-SWTOPROTN-EQPT:SYSTEM1:N2-1-2:567;
```

Errors

This message generates all of the [Default Errors](#).

ALW-SWTOWKG-EQPT

Name

ALW-SWTOWKG-EQPT: Allow SWTOWKG Equipment

Description

Category: Protection Switching

Security: Maintenance - full

This command permits the automatic or manual protection switching from the protection unit back to the working unit in a revertive 1:n or 1:1 protection equipment scheme after having been in the INH-SWTOWKG-EQPT (Inhibit Switch To Working Equipment) mode.

The protection unit is the unit which is normally in the standby mode waiting to provide protection to a group of working units. The working card is the unit which normally carries the load.

By default, 1:n or 1:1 protection equipment switching is allowed and is only inhibited when the user enters the INH-SWTOWKG-EQPT command. The inhibit state is a persistent state which is maintained over system or card restart.

This command will cause a protection switch back to the working unit if no other conditions exist which prevent protection reverting to the normally working unit.

The RTRV-COND-EQPT (Retrieve Condition Equipment) request will include the appropriate condition type information.

Defined in GR-833.

Related Messages:

[ALW-Swdx-EQPT](#)
[DLT-EQPT](#)
[ENT-EQPT](#)
[INH-SWTOPROTN-EQPT](#)
[REPT ALM EQPT](#)
[REPT RMV EQPT](#)
[RMV-EQPT](#)
[RTRV-ALM-EQPT](#)
[RTRV-EQPT](#)
[SW-TOPROTN-EQPT](#)

[ALW-SWTOPROTN-EQPT](#)
[ED-EQPT](#)
[INH-Swdx-EQPT](#)
[INH-SWTOWKG-EQPT](#)
[REPT EVT EQPT](#)
[REPT RST EQPT](#)
[RST-EQPT](#)
[RTRV-COND-EQPT](#)
[SW-DX-EQPT](#)
[SW-TOWKG-EQPT](#)

Input Format

```
ALW-SWTOWKG-EQPT:[TID]:<EqptAid>:[CTAG];
```

Input Parameters

EqptAid Equipment Working Access Identifier. The address of the working equipment unit which is to be allowed to carry the load. *EqptAid* is the AID [SlotLuAid](#).

Input Example

```
ALW-SWTOWKG-EQPT:SYSTEM1:N4-4-1:789;
```

Errors

This message generates all of the [Default Errors](#).

ALW-USER-SECU

Name

ALW-USER-SECU: Allow User Security

Description

Category: Security **Security:** Security Administrator

This command is used by the appropriate administrator to re-instate a UID which has been disabled by the INH-USER-SECU (Inhibit User Security) so the user can again establish a session with the C7 system.

Any TID may be used for this command as the security data associated with this command will be updated across the entire C7 network as a result of the execution of this command.

Defined in TR-835.

Related Messages:

ACT-USER	ALW-MSG-SECU
CANC	CANC-CID-SECU
CANC-PPPOESESS	CANC-SES-SECU
CANC-USER	DLT-TMPLT-SECU
DLT-USER-ACL	DLT-USER-SECU
ED-PID	ED-RADIUS
ED-SYS-SECU	ED-TMPLT-SECU
ED-USER-SECU	ENT-TMPLT-SECU
ENT-USER-ACL	ENT-USER-SECU
INH-MSG-SECU	INH-USER-SECU
REPT ALM SECU	REPT EVT SECU
RTRV-ALM-SECU	RTRV-COND-SECU
RTRV-RADIUS	RTRV-STATUS
RTRV-SYS-SECU	RTRV-TMPLT-SECU
RTRV-USER-ACL	RTRV-USER-SECU

Input Format

```
ALW-USER-SECU:[TID]::[CTAG]::<UIDLIST>;
```

Input Parameters

UIDLIST User Identifier. A list of one or more non-confidential identifiers that uniquely identifies which users will have session privileges re-instated (separated by &s). *UIDLIST* is a String.

Input Example

```
ALW-USER-SECU:SYSTEM1::890::JOEY;;
```

Errors

This message generates all of the [Default Errors](#).

CANC

Name

CANC: Cancel

Description

Category: Security **Security:** Security User

This is an automatic message transmitted by the C7 to a user when their session is terminated because of "timeout" (i.e. no messages were input for an interval equal to TMOUT).

Defined in TR-835.

Related Messages:

[ACT-USER](#)
[CANC-CID-SECU](#)
[CANC-SES-SECU](#)
[DLT-USER-ACL](#)
[ED-PID](#)
[ENT-USER-ACL](#)
[INH-USER-SECU](#)
[RTRV-USER-SECU](#)

[ALW-USER-SECU](#)
[CANC-PPPOESESS](#)
[CANC-USER](#)
[DLT-USER-SECU](#)
[ED-USER-SECU](#)
[ENT-USER-SECU](#)
[RTRV-USER-ACL](#)

Output Format

```
 SID DATE TIME
A  ATAG CANC
  "<UID> "
;
```

Output Parameters

UID User Identifier. A non-confidential identifier that uniquely identifies the user which was cancelled.
UID is a String.

Output Example

```
 TID-000 98-06-20 14-30-00
A  001 CANC
  "FRANKLIN"
;
```

CANC-CID-SECU

Name

CANC-CID-SECU: Cancel Channel/Port Identifier Security

Description

Category: Security **Security:** Security Administrator

This command is used by a security administrator to terminate an active session.

The RTRV-STATUS (Retrieve Status) command can be used to retrieve all users logged into a node before executing this command.

Defined in TR-835.

Related Messages:

[ACT-USER](#)

[ALW-USER-SECU](#)

[CANC-PPPOESESS](#)

[CANC-USER](#)

[DLT-USER-ACL](#)

[ED-PID](#)

[ED-SYS-SECU](#)

[ED-USER-SECU](#)

[ENT-USER-ACL](#)

[INH-MSG-SECU](#)

[REPT ALM SECU](#)

[RTRV-ALM-SECU](#)

[RTRV-RADIUS](#)

[RTRV-SYS-SECU](#)

[RTRV-USER-ACL](#)

[ALW-MSG-SECU](#)

[CANC](#)

[CANC-SES-SECU](#)

[DLT-TMPLT-SECU](#)

[DLT-USER-SECU](#)

[ED-RADIUS](#)

[ED-TMPLT-SECU](#)

[ENT-TMPLT-SECU](#)

[ENT-USER-SECU](#)

[INH-USER-SECU](#)

[REPT EVT SECU](#)

[RTRV-COND-SECU](#)

[RTRV-STATUS](#)

[RTRV-TMPLT-SECU](#)

[RTRV-USER-SECU](#)

Input Format

CANC-CID-SECU:[TID]:<CID>:[CTAG];

Input Parameters

CID CID is the AID [CID](#).

Input Example

CANC-CID-SECU:SYS1:N3-4-MS-S2:87;

Errors

This message generates all of the [Default Errors](#).

CANC-PPPOESESS

Name

CANC-PPPOESESS: Cancel PPPOESESS

Description

Category: PPPOE **Security:** Security User

An Active PPPoE Session is a session that has successfully completed the Discovery Phase and has entered the Session Phase, during which actual data packets are fast-path forwarded by the NPU subsystem. The PPPoE Relay Agent learns of sessions from the PPPoE Discovery packets that it intercepts. The PPPoE Relay Agent stores information about the sessions in a RAM-based data structure. This command terminates a PPPoE Session.

Related Messages:

[ACT-USER](#)

[ALW-USER-SECU](#)

[CANC](#)

[CANC-CID-SECU](#)

[CANC-SES-SECU](#)

[CANC-USER](#)

[DLT-USER-ACL](#)

[DLT-USER-SECU](#)

[ED-PID](#)

[ED-USER-SECU](#)

[ENT-USER-ACL](#)

[ENT-USER-SECU](#)

[INH-USER-SECU](#)

[RTRV-USER-ACL](#)

[RTRV-USER-SECU](#)

Input Format

```
CANC-PPPOESESS : [ TID ] : <MACAID> : [ CTAG ] : : [ <ACSESS> ] : VBAID=<VBAID>,
[ HOSTMAC=<HOSTMAC> ] ;
```

Input Parameters

MACAID This is the Ethernet Address of the AC as learned from the PPPoE Discovery packet. If ALL is specified, the ACSESS must be NULL. MACAID is the AID [MacRngAid](#).

ACSESS The Session Id is a 16 bit number produced by the AC during the discovery phase. If ACSESS is null, all sessions for the access concentrator will be cancelled. ACSESS is a

Integer.

- VBAID** Virtual Bridge AID. This parameter is used to specify the target of the command. **VBAID** is the AID [VbAid](#).
- HOSTMAC** This is the Ethernet Address of the Host as learned from the PPPoE Discovery packet **HOSTMAC** is the AID [MacAid](#).

Input Example

```
CANC-PPPOESESS:SYS3:01-23-45-67-89-AB:229::1234:VBAID=N3-2-VB1,
HOSTMAC=01-23-45-67-89-AB;
```

Errors

This message generates all of the [Default Errors](#).

CANC-SES-SECU

Name

CANC-SES-SECU: Cancel SES Security

Description

Category: Security **Security:** Security Administrator

This command is used by a security user to terminate all sessions of the named user(s) at a specific shelf within the system.

Related Messages:

[ACT-USER](#)
[ALW-USER-SECU](#)
[CANC-CID-SECU](#)
[CANC-USER](#)
[DLT-USER-ACL](#)
[ED-PID](#)
[ED-SYS-SECU](#)
[ED-USER-SECU](#)
[ENT-USER-ACL](#)
[INH-MSG-SECU](#)
[REPT ALM SECU](#)
[RTRV-ALM-SECU](#)

[ALW-MSG-SECU](#)
[CANC](#)
[CANC-PPPOESESS](#)
[DLT-TMPLT-SECU](#)
[DLT-USER-SECU](#)
[ED-RADIUS](#)
[ED-TMPLT-SECU](#)
[ENT-TMPLT-SECU](#)
[ENT-USER-SECU](#)
[INH-USER-SECU](#)
[REPT EVT SECU](#)
[RTRV-COND-SECU](#)

[RTRV-RADIUS](#)
[RTRV-SYS-SECU](#)
[RTRV-USER-ACL](#)

[RTRV-STATUS](#)
[RTRV-TMPLT-SECU](#)
[RTRV-USER-SECU](#)

Input Format

```
CANC-SES-SECU:[TID]:<MsAid>:[CTAG]::<UIDLIST>;
```

Input Parameters

MsAid Maintenance Slot Access Identifier. The address of the maintenance slot where the user's session was retrieved. *MsAid* is the AID [MsAid](#).

UIDLIST User Identifier. A list of one or more non-confidential identifiers that uniquely identifies which users will have session privileges re-instanted (separated by &s). *UIDLIST* is a String.

Input Example

```
CANC-SES-SECU:SYS2:N1-1-MS:123::FRANK;;
```

Errors

This message generates all of the [Default Errors](#).

CANC-USER

Name

CANC-USER: Cancel User (Logout)

Description

Category: Security **Security:** Security User

This command will cancel a login session with the C7 System.

Defined in TR-835.

Related Messages:

[ACT-USER](#)
[CANC](#)

[ALW-USER-SECU](#)
[CANC-CID-SECU](#)

[CANC-PPPOESESS](#)
[DLT-USER-ACL](#)
[ED-PID](#)
[ENT-USER-ACL](#)
[INH-USER-SECU](#)
[RTRV-USER-SECU](#)

[CANC-SES-SECU](#)
[DLT-USER-SECU](#)
[ED-USER-SECU](#)
[ENT-USER-SECU](#)
[RTRV-USER-ACL](#)

Input Format

```
CANC-USER:[TID]:<UID>:[CTAG];
```

Input Parameters

UID User Identifier. The user's identifier for session to be cancelled. User Identifier. It is a non-confidential identifier that uniquely determines a user. The user's identifier is any combination of alphanumeric characters 4 to 10 characters long and is case-sensitive. *UID* is a String.

Input Example

```
CANC-USER:SYS2:JOEY:100;
```

Errors

This message generates all of the [Default Errors](#).

CHG-SPLIT

Name

CHG-SPLIT: Change SPLIT

Description

Category: Loop Testing **Security:** Testing

This command instructs the NE to provide the necessary connections to the tap and split, at the access point, the pair or pairs specified by the access command of the circuit under test.

After test access has been established, this command is to be sent by the TSC to the NE on receipt of the first command from the testing OS other than DISC-TACC (Disconnect Test Access). The CHG-SPLIT (Change Split) command is to be completed before executing the response message of the OS to TSC command that initiated the CHG-SPLIT command.

Defined in GR-834.

Related Messages:

[CONN-FPACC-MET](#)
[CONN-MON](#)
[DISC-FPACC-MET](#)
[DLT-TGRP](#)
[ED-TGRP](#)
[REPT-STAT](#)
[RTRV-TGRP](#)
[TST-ONT-MET](#)

[CONN-LPACC-MET](#)
[CONN-TACC-MET](#)
[DISC-TACC](#)
[ED-FPACC](#)
[ENT-TGRP](#)
[RTRV-FPACC](#)
[TST-ITACC-MET](#)

Input Format

```
CHG-SPLIT:[TID]:<TapAid>:[CTAG];
```

Input Parameters

TapAid Test Access Path (TAP) Access Identifier. The test access path number selected. The assigned TAP number is echoed back in the response of the initial CONN-LPACC-MET (Connect Loop Around Access Metallic) message. Thereafter, TAP is used to identify all messages between the TSC and NE until the access point is released. *TapAid* is the AID [TapAid](#).

Input Example

```
CHG-SPLIT:SYS1:2:345;
```

Errors

This message generates all of the [Default Errors](#).

CONN-FPACC-MET

Name

CONN-FPACC-MET: CONN FPACC MET

Description

Category: Loop Testing **Security:** Testing

This command will connect the specified port (circuit) to the test bus and establish a test path from the front panel access to the test bus.

The test path will be established for the period of time specified by the TMOUT. The test will be torn down if the time period expires or the DISC-FPACC-MET (Disconnect Front Panel Access Metallic) command is executed.

This command should only be used for T0, T1, and ADSL services.

Defined by Calix.

Related Messages:

[CHG-SPLIT](#)
[CONN-MON](#)
[DISC-FPACC-MET](#)
[DLT-TGRP](#)
[ED-TGRP](#)
[REPT-STAT](#)
[RTRV-TGRP](#)
[TST-ONT-MET](#)

[CONN-LPACC-MET](#)
[CONN-TACC-MET](#)
[DISC-TACC](#)
[ED-FPACC](#)
[ENT-TGRP](#)
[RTRV-FPACC](#)
[TST-ITACC-MET](#)

Input Format

```
CONN-FPACC-
MET: [TID]:<MetAid>:[CTAG]::<TAP>:[ [ CNFGN=<CNFGN>, ] [ TMOUT=<TMOUT> ] ]
;
```

Input Parameters

MetAid Metallic Port Access Identifier. The address of the metallic port which is to be connected to the test bus. *MetAid* is the AID [TwentyFourPortLuAid](#).

TAP Test Access Path (TAP) Identifier. The test access path selected. If the requested TAP is not available, the command will be rejected. This parameter must be provided. *TAP* is the AID [TapAid](#).

CNFGN Configuration Code. For metallic access, it defines the access point lead-pair usage configuration. *CNFGN* is of type [ConfigurationFP](#). The default value is "2WA".

TMOUT Time Out. The amount of time the test should be established for. If the period of time expires, then if the test is still established is should be torn down. *TMOUT* is of type [TimeOutTesting](#). The default value is "5".

Input Example

```
CONN-FPACC-MET:SYS1:N6-4-3-24:333::1:CNFGN=2WA,TMOUT=5;
```

Errors

This message generates all of the [Default Errors](#).

CONN-LPACC-MET

Name

CONN-LPACC-MET: Connect LPACC MET

Description

Category: Loop Testing **Security:** Testing

This command controls TAP selection, access point designation, and TAP loop around. This command provides the information required for the metallic NE or MTAU to gain test access to a particular circuit, and to provide a loop around on the selected TAP.

Defined in GR-834.

Related Messages:

[CHG-SPLIT](#)
[CONN-MON](#)
[DISC-FPACC-MET](#)
[DLT-TGRP](#)
[ED-TGRP](#)
[REPT-STAT](#)
[RTRV-TGRP](#)
[TST-ONT-MET](#)

[CONN-FPACC-MET](#)
[CONN-TACC-MET](#)
[DISC-TACC](#)
[ED-FPACC](#)
[ENT-TGRP](#)
[RTRV-FPACC](#)
[TST-ITACC-MET](#)

Input Format

```
CONN-LPACC-MET: [TID]:<MetAid>:[CTAG]:::<TAP>:[CNFGN=<CNFGN>];
```

Input Parameters

MetAid Metallic Port Access Identifier. The address of the metallic port which is to be connected to the test bus. *MetAid* is the AID [TwentyFourPortLuAid](#).

TAP Test Access Path (TAP) Identifier. The test access path number selected. If the requested TAP is not available, the command will be rejected. *TAP* is the AID [TapAid](#).

CNFGN Configuration Code. For metallic access, this defines the access point lead-pair usage configuration. *CNFGN* is of type [Configuration](#). The default value is "2WA".

Input Example

```
CONN-LPACC-MET:SYS45:N3-4-3-2:33465::1:CNFGN=2WA;
```

Errors

This message generates all of the [Default Errors](#).

CONN-MON

Name

CONN-MON: Connect Monitor

Description

Category: Loop Testing **Security:** N/A

This command is used to establish a monitor state without having to reaccess the circuit under test.

Related Messages:

CHG-SPLIT	CONN-FPACC-MET
CONN-LPACC-MET	CONN-TACC-MET
DISC-FPACC-MET	DISC-TACC
DLT-TGRP	ED-FPACC
ED-TGRP	ENT-TGRP
REPT-STAT	RTRV-FPACC
RTRV-TGRP	TST-ITACC-MET
TST-ONT-MET	

Input Format

```
CONN-MON:[TID]:<TapAid>:[CTAG];
```

Input Parameters

TapAid *TapAid* is the AID [TapAid](#).

Input Example

CONN-MON:SYS:1:234 ;

Errors

This message generates all of the [Default Errors](#).

CONN-TACC-MET

Name

CONN-TACC-MET: Connect Test Access Metallic

Description

Category: Loop Testing **Security:** Testing

This command enables the NE to provide a zero-loss, high-impedance monitor connection to the transmission pairs of circuit and complete circuit access.

This command removes the tap loop around, and connects the appropriate tap lead pairs to the access point. The circuit access number (address) is found in the CONNECT LOOP AROUND ACCESS METALLIC command, which must always be successfully transmitted before this command.

Defined in GR-834.

Related Messages:

[CHG-SPLIT](#)
[CONN-LPACC-MET](#)
[DISC-FPACC-MET](#)
[DLT-TGRP](#)
[ED-TGRP](#)
[REPT-STAT](#)
[RTRV-TGRP](#)
[TST-ONT-MET](#)

[CONN-FPACC-MET](#)
[CONN-MON](#)
[DISC-TACC](#)
[ED-FPACC](#)
[ENT-TGRP](#)
[RTRV-FPACC](#)
[TST-ITACC-MET](#)

Input Format

CONN-TACC-MET: [TID] :<TapAid> : [CTAG] ;

Input Parameters

TapAid Test Access Path (TAP) Identifier. The test access path number selected. The assigned TAP number which was echoed back in the response of the initial CONN-LPACC-MET (Connect Loop Around Access Metallic) message. *TapAid* is the AID [TapAid](#).

Input Example

```
CONN-TACC-MET:PETALUMA:1:343;
```

Errors

This message generates all of the [Default Errors](#).

DISC-FPACC-MET

Name

DISC-FPACC-MET: Disconnect Front Panel Access Metallic

Description

Category: Loop Testing **Security:** Testing

This command will tear down any test session which has been established via the front panel.

Defined by Calix.

Related Messages:

[CHG-SPLIT](#)

[CONN-FPACC-MET](#)

[CONN-LPACC-MET](#)

[CONN-MON](#)

[CONN-TACC-MET](#)

[DISC-TACC](#)

[DLT-TGRP](#)

[ED-FPACC](#)

[ED-TGRP](#)

[ENT-TGRP](#)

[REPT-STAT](#)

[RTRV-FPACC](#)

[RTRV-TGRP](#)

[TST-ITACC-MET](#)

[TST-ONT-MET](#)

Input Format

```
DISC-FPACC-MET:[TID]:<TapAid>:[CTAG];
```

Input Parameters

TapAid Test Access Path (TAP) Identifier. The test access path which was selected for the test. *TapAid* is the AID [TapAid](#).

Input Example

```
DISC-FPACC-MET:SYS1:2:333;
```

Errors

This message generates all of the [Default Errors](#).

DISC-TACC

Name

DISC-TACC: Disconnect TACC

Description

Category: Loop Testing **Security:** Testing

This dual application command causes the NE (e.g. TAU) to restore the circuit under test to its through state and open all tap connections to that access point. At the TSC/RTU, it causes the release of resources and retires the corresponding TSN specified.

The sequence of release must restore the access point before opening tap connections.

The tap is to be returned to the idle state when test access is removed. In addition, the terminate and leave state of the access point is to be unchanged by the command.

Defined in GR-834.

Related Messages:

[CHG-SPLIT](#)

[CONN-LPACC-MET](#)

[CONN-TACC-MET](#)

[DLT-TGRP](#)

[ED-TGRP](#)

[REPT-STAT](#)

[RTRV-TGRP](#)

[TST-ONT-MET](#)

[CONN-FPACC-MET](#)

[CONN-MON](#)

[DISC-FPACC-MET](#)

[ED-FPACC](#)

[ENT-TGRP](#)

[RTRV-FPACC](#)

[TST-ITACC-MET](#)

Input Format

```
DISC-TACC:[TID]:<TapAid>:[CTAG];
```

Input Parameters

TapAid Test Access Path (TAP) Identifier. The test access path which is to be disconnected. The assigned TAP number which was echoed back in the response of the initial CONN-LPACC-MET (Connect Loop Around Access Metallic) message. *TapAid* is the AID [TapAid](#).

Input Example

```
DISC-TACC:SYS34:2:342;
```

Errors

This message generates all of the [Default Errors](#).

DLT-<OCN>

Name

DLT-<[OCN](#)>: Delete (OC12, OC3, OC48)

Description

Category: OCn Facility **Security:** Memory Admin - by rate

This command removes the provisioning for an OCn port from the database and if an OCn card exists within the slot, then it will automatically default assign the OCn port based on current equipage.

An OCn port can only be deleted if it does not support other entities (i.e. STSN cross-connect).

Defined in GR-199.

Related Messages:

[DLT-FFP-<OCN>](#)
[ED-<OCN>](#)
[ED-GOS-<OCN>](#)
[ENT-FFP-<OCN>](#)
[INIT-REG-<OCN>](#)

[DLT-GOS-<OCN>](#)
[ED-FFP-<OCN>](#)
[ENT-<OCN>](#)
[ENT-GOS-<OCN>](#)
[OPR-LPBK-<OCN>](#)

[OPR-PROTNSW-<OCN>](#)
[REPT EVT <OCN>](#)
[REPT RST <OCN>](#)
[RLS-PROTNSW-<OCN>](#)
[RST-<OCN>](#)
[RTRV-ALM-<OCN>](#)
[RTRV-FFP-<OCN>](#)
[RTRV-PM-<OCN>](#)

[REPT ALM <OCN>](#)
[REPT RMV <OCN>](#)
[RLS-LPBK-<OCN>](#)
[RMV-<OCN>](#)
[RTRV-<OCN>](#)
[RTRV-COND-<OCN>](#)
[RTRV-GOS-<OCN>](#)

Input Format

```
DLT-<OCN>:[TID]:<OcNAid>:[CTAG]:::  
[INCL=<INCL>];
```

Input Parameters

OcNAid OCn Access Identifier. The address of the port being deleted. *OcNAid* is the AID [FourPortLuAndRapRngAid](#) and is listable and rangeable.

INCL INCLusive. This parameter provides a way for the user to request a forced deletion of a port even if it will delete an active Calix LINK. *INCL* is of type [BoolYN](#).

Input Example

```
DLT-OC12:SYS3:N12-2-12-1:345:::INCL=Y;
```

Errors

This message generates all of the [Default Errors](#).

DLT-<STSN>

Name

DLT-<STSN>: Delete (STS1, STS12C, STS3C, STS48C)

Description

Category: STSn Path **Security:** Memory Admin - by rate

This command removes the provisioning for an STS path from the database.

An STS path can only be deleted if it does not support other entities (i.e. STS cross-connect).

Defined by GR-199.

Related Messages:

[DLT-CRS-<STSN>](#)
[ED-<STSN>](#)
[ED-GOS-<STSN>](#)
[ENT-CRS-<STSN>](#)
[INIT-REG-<STSN>](#)
[REPT ALM <STSN>](#)
[REPT RMV <STSN>](#)
[RLS-PROTNSTW-<STSN>](#)
[RST-<STSN>](#)
[RTRV-ALM-<STSN>](#)
[RTRV-CRS-<STSN>](#)
[RTRV-PM-<STSN>](#)

[DLT-GOS-<STSN>](#)
[ED-CRS-<STSN>](#)
[ENT-<STSN>](#)
[ENT-GOS-<STSN>](#)
[OPR-PROTNSTW-<STSN>](#)
[REPT EVT <STSN>](#)
[REPT RST <STSN>](#)
[RMV-<STSN>](#)
[RTRV-<STSN>](#)
[RTRV-COND-<STSN>](#)
[RTRV-GOS-<STSN>](#)

Input Format

```
DLT-<STSN>:[TID]:<StsAid>:[CTAG];
```

Input Parameters

StsAid STS12C Access Identifier. The access identifier for the STSnC path being deleted. *StsAid* is the AID [StsRngAid](#) and is listable and rangeable.

Input Example

```
DLT-STS12C:SYS2:N9-2-CSB-1-13:678;
```

Errors

This message generates all of the [Default Errors](#).

DLT-ADSL

Name

DLT-ADSL: Delete Asymmetric Digital Subscriber Line

Description

Category: ADSL Facility

Security: Memory Admin - by rate

This command removes the provisioning for a DSL port from the database and if a DSL card exists within the slot, then it will automatically default assign the DSL port based on current equipage.

A DSL port can only be deleted if it does not support other entities (i.e. VP-VC cross connect).

Defined by GR-199.

Related Messages:

[DLT-GOS-ADSL](#)

[ED-ADSL](#)

[ENT-ADSL](#)

[ENT-TMPLT-ADSL](#)

[INIT-PWR-ADSL](#)

[REPT ALM ADSL](#)

[REPT RMV ADSL](#)

[RMV-ADSL](#)

[RTRV-ADSL](#)

[RTRV-COND-ADSL](#)

[RTRV-GOS-ADSL](#)

[RTRV-TMPLT-ADSL](#)

[DLT-TMPLT-ADSL](#)

[ED-GOS-ADSL](#)

[ENT-GOS-ADSL](#)

[INIT-ADSL](#)

[INIT-REG-ADSL](#)

[REPT EVT ADSL](#)

[REPT RST ADSL](#)

[RST-ADSL](#)

[RTRV-ALM-ADSL](#)

[RTRV-CSTAT-ADSL](#)

[RTRV-PM-ADSL](#)

Input Format

DLT-ADSL:[TID]:<AdslAid>:[CTAG];

Input Parameters

AdslAid Asymmetric Digital Subscriber Access Identifier. The access identifier for the DSL entity being deleted. *AdslAid* is the AID [TwentyFourPortLuRngAid](#) and is listable and rangeable.

Input Example

DLT-ADSL:SYS3:N3-5-3-6:323;

Errors

This message generates all of the [Default Errors](#).

DLT-AGG

Name

DLT-AGG: DLT AGG

Description

Category: Ethernet **Security:** Memory Admin - by rate

Command to delete a link AGGRegate.

This command is not currently supported.

Related Messages:

DLT-AGG-ACL	DLT-AGG-PORT
DLT-ETH	DLT-ETH-ACL
DLT-GOS-ETH	DLT-LSWITCH
DLT-LSWITCH-PORT	DLT-PROF-ETH
DLT-VLAN	DLT-VLAN-PORT
DLT-VLAN-VBPORT	ED-ETH
ED-GOS-ETH	ED-VLAN
ED-VLAN-PORT	ED-VLAN-VBPORT
ENT-AGG	ENT-AGG-ACL
ENT-AGG-PORT	ENT-ETH
ENT-ETH-ACL	ENT-GOS-ETH
ENT-LSWITCH	ENT-LSWITCH-PORT
ENT-PROF-ETH	ENT-VLAN
ENT-VLAN-PORT	ENT-VLAN-VBPORT
INIT-LSWITCH	INIT-STAT-ETH
REPT ALM ETH	REPT EVT ETH
REPT RMV ETH	REPT RST ETH
RMV-ETH	RST-ETH
RTRV-AGG	RTRV-AGG-ACL
RTRV-AGG-PORT	RTRV-ALM-ETH
RTRV-COND-ETH	RTRV-ETH
RTRV-ETH-ACL	RTRV-GOS-ETH
RTRV-LSWITCH	RTRV-LSWITCH-PORT
RTRV-PM-ETH	RTRV-PROF-ETH
RTRV-STAT-ETH	RTRV-VLAN
RTRV-VLAN-PORT	RTRV-VLAN-VBPORT

Input Format

DLT-AGG: [TID]:<EthAggAid>:[CTAG];

Input Parameters

EthAggAid Link Aggregate Access Identifier. Any parameters configured on the aggregate are deleted. They are not propagated to the underlying ports when the aggregate is deleted. *EthAggAid* is the AID [EthAggAid](#).

Input Example

DLT-AGG::N1-1-2-AGG5:321;

Errors

This message generates all of the [Default Errors](#).

DLT-AGG-ACL

Name

DLT-AGG-ACL: Delete AGG ACL

Description

Category: Ethernet **Security:** Memory Admin - by rate

Deletes an aggregate Access Control List on the external port or link aggregate.

If a MAC-Address is included as an input parameter, only that specific address is removed from the list. The rest of the list is still active.

An Address Control List consists of up to 8 Src address/mask pairs. Filtering on this port is always inclusive.

This command is not currently supported.

Related Messages:

[DLT-AGG](#)

[DLT-AGG-PORT](#)

[DLT-ETH](#)

[DLT-ETH-ACL](#)

[DLT-GOS-ETH](#)

[DLT-LSWITCH](#)

[DLT-LSWITCH-PORT](#)

[DLT-PROF-ETH](#)

[DLT-VLAN](#)

[DLT-VLAN-PORT](#)

DLT-VLAN-VBPORT	ED-ETH
ED-GOS-ETH	ED-VLAN
ED-VLAN-PORT	ED-VLAN-VBPORT
ENT-AGG	ENT-AGG-ACL
ENT-AGG-PORT	ENT-ETH
ENT-ETH-ACL	ENT-GOS-ETH
ENT-LSWITCH	ENT-LSWITCH-PORT
ENT-PROF-ETH	ENT-VLAN
ENT-VLAN-PORT	ENT-VLAN-VBPORT
INIT-LSWITCH	INIT-STAT-ETH
REPT ALM ETH	REPT EVT ETH
REPT RMV ETH	REPT RST ETH
RMV-ETH	RST-ETH
RTRV-AGG	RTRV-AGG-ACL
RTRV-AGG-PORT	RTRV-ALM-ETH
RTRV-COND-ETH	RTRV-ETH
RTRV-ETH-ACL	RTRV-GOS-ETH
RTRV-LSWITCH	RTRV-LSWITCH-PORT
RTRV-PM-ETH	RTRV-PROF-ETH
RTRV-STAT-ETH	RTRV-VLAN
RTRV-VLAN-PORT	RTRV-VLAN-VBPORT

Input Format

```
DLT-AGG-
ACL:[ TID ]:<EthAggAid>:[ CTAG ]::[ [ MAC=<MAC> , ] [ MMSK=<MMSK> ] ] ;
```

Input Parameters

EthAggAid Ethernet Aggregate ACL Access Identifier. *EthAggAid* is the AID [EthAggAid](#).

MAC MAC address. *MAC* is the AID [MacAid](#).

MMSK MAC address mask. *MMSK* is the AID [MacAid](#).

Input Example

```
DLT-AGG-ACL:SYS1:N4-3-1-2-AGG32:345::MAC=01-23-45-67-89-AB,
MMSK=01-23-45-67-89-AB;
```

Errors

This message generates all of the [Default Errors](#).

DLT-AGG-PORT

Name

DLT-AGG-PORT: DLT AGG PORT

Description

Category: Ethernet **Security:** Memory Admin - by rate

Command to delete a port from a link AGGREGATE.

This command is not currently supported.

Related Messages:

DLT-AGG	DLT-AGG-ACL
DLT-ETH	DLT-ETH-ACL
DLT-GOS-ETH	DLT-LSWITCH
DLT-LSWITCH-PORT	DLT-PROF-ETH
DLT-VLAN	DLT-VLAN-PORT
DLT-VLAN-VBPORT	ED-ETH
ED-GOS-ETH	ED-VLAN
ED-VLAN-PORT	ED-VLAN-VBPORT
ENT-AGG	ENT-AGG-ACL
ENT-AGG-PORT	ENT-ETH
ENT-ETH-ACL	ENT-GOS-ETH
ENT-LSWITCH	ENT-LSWITCH-PORT
ENT-PROF-ETH	ENT-VLAN
ENT-VLAN-PORT	ENT-VLAN-VBPORT
INIT-LSWITCH	INIT-STAT-ETH
REPT ALM ETH	REPT EVT ETH
REPT RMV ETH	REPT RST ETH
RMV-ETH	RST-ETH
RTRV-AGG	RTRV-AGG-ACL
RTRV-AGG-PORT	RTRV-ALM-ETH
RTRV-COND-ETH	RTRV-ETH
RTRV-ETH-ACL	RTRV-GOS-ETH
RTRV-LSWITCH	RTRV-LSWITCH-PORT
RTRV-PM-ETH	RTRV-PROF-ETH
RTRV-STAT-ETH	RTRV-VLAN
RTRV-VLAN-PORT	RTRV-VLAN-VBPORT

Input Format

DLT-AGG-PORT:[TID]:<EthAggAid>:[CTAG]:::[PLOCN=<PLOCN>] ;

Input Parameters

EthAggAid Link Aggregate Access Identifier. *EthAggAid* is the AID [EthAggAid](#).

PLOCN Physical LOCatioN of the port. This specifies the location of the Link Aggregate port. *PLOCN* is the AID [TwelvePortLuAid](#).

Input Example

DLT-AGG-PORT::N1-1-2-AGG5:321:::PLOCN=N1-2-3-4 ;
--

Errors

This message generates all of the [Default Errors](#).

DLT-ALM-SHELF

Name

DLT-ALM-SHELF: Delete Alarm SHELF

Description

Category: System **Security:** System Administration

The Delete Alarm Shelf is used to deactivate alarms that exist against the specified shelf.

Related Messages:

ALW-STBY-UPGRD	DLT-NODE
ED-DAT	ED-NODE
ED-SHELF	ED-SYS
ED-SYS-SECU	ENT-NODE
ENT-SHELF	INH-STBY-UPGRD
INIT-SYS	OPR-BAR
REPT ALM SHELF	REPT EVT MEM
REPT EVT SHELF	RTRV-ALM-SHELF
RTRV-BAR	RTRV-COND-SHELF
RTRV-HDR	RTRV-NETYPE

[RTRV-NODE](#)
[RTRV-SYS](#)

[RTRV-SHELF](#)
[RTRV-SYS-SECU](#)

Input Format

```
DLT-ALM-SHELF:[TID]:<ShelfAid>:[CTAG];
```

Input Parameters

ShelfAid Shelf Access Identifier. The address of the shelf whose alarms are being deleted. *ShelfAid* is the AID [ShelfAid](#).

Input Example

```
DLT-ALM-SHELF:SYS2:N3-1:98;
```

Errors

This message generates all of the [Default Errors](#).

DLT-AP

Name

DLT-AP: Delete ATM Resource Port

Description

Category: IMA Group **Security:** Memory Admin - by rate

This command removes the provisioning for an ATM Resource Port from the database.

Related Messages:

[DLT-AP-T1](#)
[DLT-GOS-IMA](#)
[DLT-IMA](#)
[ED-AP](#)
[ED-GOS-IMA](#)
[ED-IMA](#)
[ENT-AP-T1](#)

[DLT-GOS-AP](#)
[DLT-GOS-IMALINK](#)
[DLT-IMA-PORT](#)
[ED-GOS-AP](#)
[ED-GOS-IMALINK](#)
[ENT-AP](#)
[ENT-GOS-AP](#)

ENT-GOS-IMA	ENT-GOS-IMALINK
ENT-IMA	ENT-IMA-PORT
INIT-REG-AP	INIT-REG-IMA
INIT-REG-IMALINK	REPT ALM AP
REPT ALM IMA	REPT ALM IMALINK
REPT EVT AP	REPT EVT IMA
REPT EVT IMALINK	REPT RMV AP
REPT RST AP	RMV-AP
RMV-IMA	RST-AP
RST-IMA	RTRV-ALM-AP
RTRV-ALM-IMA	RTRV-ALM-IMALINK
RTRV-AP	RTRV-COND-AP
RTRV-COND-IMA	RTRV-GOS-AP
RTRV-GOS-IMA	RTRV-GOS-IMALINK
RTRV-IMA	RTRV-PM-AP
RTRV-PM-IMA	RTRV-PM-IMALINK

Input Format

```
DLT-AP:[TID]:<ApAid>:[CTAG];
```

Input Parameters

ApAid *ApAid* is the AID [AtmRscPortAid](#).

Input Example

```
DLT-AP:SYS2:N1-3-2-AP12:93;
```

Errors

This message generates all of the [Default Errors](#).

DLT-AP-T1

Name

DLT-AP-T1: Remove Atm Resource Port T1 Association

Description

Category: IMA Group**Security:** Memory Admin - by rate

This command removes the association of a T1 port with an ATM Resource Port.

Related Messages:

DLT-AP	DLT-CRS-T1
DLT-GOS-AP	DLT-GOS-IMA
DLT-GOS-IMALINK	DLT-GOS-T1
DLT-IMA	DLT-IMA-PORT
DLT-T1	ED-AP
ED-GOS-AP	ED-GOS-IMA
ED-GOS-IMALINK	ED-GOS-T1
ED-IMA	ED-T1
ENT-AP	ENT-AP-T1
ENT-CRS-T1	ENT-GOS-AP
ENT-GOS-IMA	ENT-GOS-IMALINK
ENT-GOS-T1	ENT-IMA
ENT-IMA-PORT	ENT-T1
INIT-REG-AP	INIT-REG-IMA
INIT-REG-IMALINK	INIT-REG-T1
OPR-LPBK-T1	REPT ALM AP
REPT ALM IMA	REPT ALM IMALINK
REPT ALM T1	REPT EVT AP
REPT EVT IMA	REPT EVT IMALINK
REPT EVT T1	REPT RMV AP
REPT RMV T1	REPT RST AP
REPT RST T1	RLS-LPBK-T1
RMV-AP	RMV-IMA
RMV-T1	RST-AP
RST-IMA	RST-T1
RTRV-ALM-AP	RTRV-ALM-IMA
RTRV-ALM-IMALINK	RTRV-ALM-T1
RTRV-AP	RTRV-COND-AP
RTRV-COND-IMA	RTRV-COND-T1
RTRV-CRS-T1	RTRV-GOS-AP
RTRV-GOS-IMA	RTRV-GOS-IMALINK
RTRV-GOS-T1	RTRV-IMA
RTRV-PM-AP	RTRV-PM-IMA
RTRV-PM-IMALINK	RTRV-PM-T1
RTRV-T1	

Input Format

```
DLT-AP-T1:[TID]:<ApAid>:[CTAG]:::<PLOCN>:[INCL=<INCL>];
```

Input Parameters

ApAid *ApAid* is the AID [AtmRscPortAid](#).

PLOCN Physical Location. This is the AID of the associated T1 or HDSL port. *PLOCN* is the AID [TwelvePortLuAid](#).

INCL INCLusive. This parameter provides a way for the user to request a forced removal of the association in case the T1 port provisioning is missing a reference to the AP. *INCL* is of type [BoolYN](#). The default value is "N".

Input Example

```
DLT-AP-T1:SYS3:N1-3-2-AP4:556::N1-3-10-2:INCL=Y;
```

Errors

This message generates all of the [Default Errors](#).

DLT-AVO

Name

DLT-AVO: Delete Analog Video Receiver Port

Description

Category: PON **Security:** Memory Admin - by rate

This command removes the provisioning for an Analog Video Overlay port from the database.

Related Messages:

[DLT-GOS-ONT](#)
[DLT-ONT](#)
[DLT-RFVID](#)
[DLT-VRP](#)
[ED-GOS-ONT](#)
[ED-PROF-ONT](#)
[ED-VCG](#)
[ENT-AVO](#)

[DLT-IG-VDS1](#)
[DLT-PROF-ONT](#)
[DLT-VCG](#)
[ED-AVO](#)
[ED-ONT](#)
[ED-RFVID](#)
[ED-VRP](#)
[ENT-GOS-ONT](#)

ENT-IG-VDS1	ENT-ONT
ENT-PROF-ONT	ENT-RFVID
ENT-VCG	ENT-VRP
INIT-ONT-UA	INIT-REG-ONT
REPT ALM AVO	REPT ALM ONT
REPT ALM RFVID	REPT ALM VCG
REPT ALM VRP	REPT EVT ONT
REPT RMV AVO	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
DLT-AVO:[TID]:<OntPortAid>:[CTAG];
```

Input Parameters

OntPortAid Analog Video Overlay Port Access Identifier. The address of the AVO port being deleted.
The port number must be equal to 1. *OntPortAid* is the AID [OntPortRngAid](#).

Input Example

```
DLT-AVO:SYS:N2-4-6-1-18-1:345;
```

Errors

This message generates all of the [Default Errors](#).

DLT-BWC

Name

DLT-BWC: Delete Bandwidth Constraint

Description

Category: Bandwidth Management

Security: Memory Admin - by rate

A Bandwidth Constraint is a generic identifier that can be used to aid in traffic management in the C7. Bandwidth Constraints can be attached to transport links in the C7 network to reserve bandwidth based on a particular application.

Defined by Calix.

Related Messages:

[ED-BWC](#)

[RTRV-BW-PROV](#)

[ENT-BWC](#)

[RTRV-BWC](#)

Input Format

```
DLT-BWC:[TID]:<BwcAid>:[CTAG]:::[INCL=<INCL>];
```

Input Parameters

BwcAid Bandwidth Constraint Access Identifier. Identifier of the Bandwidth Constraint to be operated upon. *BwcAid* is the AID [BwcProvAid](#).

INCL INCLusive. This flag allows an internal bandwidth constraint to be forcibly deleted. This is a restricted parameter. *INCL* is of type [BoolYN](#). The default value is "N".

Input Example

```
DLT-BWC:SYS2:1:123:::INCL=N;
```

Errors

This message generates all of the [Default Errors](#).

DLT-BWCLINK

Name

DLT-BWCLINK: Delete Link Bandwidth Constraint

Description

Category: Bandwidth Management

Security: Memory Admin - by rate

A Link Bandwidth Constraint is an association of a Bandwidth Constraint to a transport link in the C7 network. It is used to reserve bandwidth on the link for a specified application.

Input Format

```
DLT-BWCLINK:[TID]:<LinkBwcAid>:[CTAG]:::[INCL=<INCL>];
```

Input Parameters

LinkBwcAid Link Bandwidth Constraint Access Identifier. Identifies the Link Bandwidth Constraint to be operated upon. *LinkBwcAid* is the AID [BwlinkId](#).

INCL Include flag. This flag is used to do a force delete on internally created Bandwidth Constraint links. *INCL* is of type [BoolYN](#).

Input Example

```
DLT-BWCLINK:SYS2:N3-1-4-12-BWC1:98:::INCL=N;
```

Errors

This message generates all of the [Default Errors](#).

DLT-CRS-<STS>N>

Name

DLT-CRS-<[STS](#)>: Delete Cross Connect (STS1, STS12C, STS3C, STS48C)

Description

Category: Cross Connect

Security: Memory Admin - by rate

This command provides for disconnecting cross-connected STS object-entities.

Defined in GR-199.

Related Messages:

[DLT-<STSN>](#)
[ED-<STSN>](#)
[ED-GOS-<STSN>](#)
[ENT-CRS-<STSN>](#)
[INIT-REG-<STSN>](#)
[REPT ALM <STSN>](#)
[REPT RMV <STSN>](#)
[RLS-PROTNSTW-<STSN>](#)
[RST-<STSN>](#)
[RTRV-ALM-<STSN>](#)
[RTRV-CRS-<STSN>](#)
[RTRV-PM-<STSN>](#)

[DLT-GOS-<STSN>](#)
[ED-CRS-<STSN>](#)
[ENT-<STSN>](#)
[ENT-GOS-<STSN>](#)
[OPR-PROTNSTW-<STSN>](#)
[REPT EVT <STSN>](#)
[REPT RST <STSN>](#)
[RMV-<STSN>](#)
[RTRV-<STSN>](#)
[RTRV-COND-<STSN>](#)
[RTRV-GOS-<STSN>](#)

Input Format

```
DLT-CRS-<STSN>:[TID]:  

<SrcStsAid>,[<DstStsAid>]:[CTAG]:::[ [SCOPE=<SCOPE> , ] [PATH=<PATH> , ]  

[ INTERNAL=<INTERNAL> , ] [ INCL=<INCL> ] ] ;
```

Input Parameters

SrcStsAid	Source Access Identifier. The address of the source (from) STS endpoint of the cross-connect being deleted. <i>SrcStsAid</i> is the AID StsCrsAid .
DstStsAid	Destination Access Identifier. The address of the destination (to) STS endpoint of the cross-connect being deleted. <i>DstStsAid</i> is the AID StsCrsAid .
SCOPE	SCOPE of deletion. This will indicate how far to delete the cross-connect. <i>SCOPE</i> is of type Scope . The default value is "NTWK".
PATH	Path on which to follow the cross-connect. <i>PATH</i> is of type Path . The default value is "Any provisioned".
INTERNAL	Internal Cross Connects. If present, this parameter specifies the deletion of otherwise hidden cross connects created internally by the C7. It is intended for use only by system experts or C7 support personnel. <i>INTERNAL</i> is of type InternalCrsTypes and is listable. The default value is "NONE".
INCL	INCLusive. This parameter provides a way for the user to request a forced deletion of a cross-connect even though the cross-connect is restricted (owned by an application within the C7 system). <i>INCL</i> is of type BoolYN . The default value is "N".

Input Example

```
DLT-CRS-STS12C:SYS2:N4-5-5-3-1,N8-3-CSB-1-
1:43:::SCOPE=SHELF,PATH=UNPROT,
INTERNAL=ALL,INCL=N;
```

Errors

This message generates all of the [Default Errors](#).

DLT-CRS-DCC

Name

DLT-CRS-DCC: DLT CRS DCC

Description

Category: Management Interface **Security:** System Administration

This command provides for disconnecting cross-connected DCC object-entities.

Related Messages:

[ED-LINK](#)
[RTRV-CRS-DCC](#)

[ENT-CRS-DCC](#)
[RTRV-LINK](#)

Input Format

```
DLT-CRS-
DCC:[TID]:<CrsDccSrcAid>,[<CrsDccDestAid>]:[CTAG]:::[ [ SCOPE=<SCOPE> , ]
[ PATH=<PATH> , ][ INCL=<INCL> ] ];
```

Input Parameters

CrsDccSrcAid	Source Access Identifier. The address of the source (from) SDCC endpoint of the cross-connect being deleted. SDCC denotes a section DCC. LDCC denotes a line DCC. LDCC(1-3) denotes one byte in the line DCC overhead. <i>CrsDccSrcAid</i> is the AID DccAid .
CrsDccDestAid	Destination Access Identifier. The address of the destination (to) SDCC endpoint of the cross-connect being deleted. SDCC denotes a section DCC. LDCC denotes a line DCC. LDCC(1-3) denotes one byte in the line DCC overhead. <i>CrsDccDestAid</i> is the AID DccAid .
SCOPE	SCOPE of deletion. This will indicate how far to delete the cross-connect. <i>SCOPE</i> is of type Scope . The default value is "NTWK".

PATH	Path on which to follow the cross-connect. <i>PATH</i> is of type Path . The default value is "Any provisioned".
INCL	INCLusive. This parameter provides a way for the user to request a forced deletion of a cross-connect even though the cross-connect is restricted (owned by an application within the C7 system). <i>INCL</i> is of type BoolYN . The default value is "N".

Input Example

```
DLT-CRS-DCC:SYS3:N3-4-MS-LDCC1,N8-3-MS-
LDCC1:489:::SCOPE=SHELF,PATH=UNPROT,
INCL=N;
```

Errors

This message generates all of the [Default Errors](#).

DLT-CRS-OW

Name

DLT-CRS-OW: DLT CRS OW

Description

Category: Management Interface **Security:** Memory Admin - by rate

This command provides for disconnecting cross-connected OW object-entities.

Related Messages:

ACT-CRS-OW ED-SERIAL RTRV-CRS-OW RTRV-SERIAL	ED-IFCONFIG ENT-CRS-OW RTRV-IFCONFIG
---	--

Input Format

```
DLT-CRS-
OW:[TID]:<OWSrcPortAid>,[<OWDstPortAid>]:[CTAG]:::[ [ SCOPE=<SCOPE> , ]
[ PATH=<PATH> , ] [ INCL=<INCL> ] ];
```

Input Parameters

OWSrcPortAid	Source Access Identifier. The address of the source (from) OW endpoint of the cross-connect being deleted. <i>OWSrcPortAid</i> is the AID OWAid .
OWDstPortAid	Destination Access Identifier. The address of the destination (to) OW endpoint of the cross-connect being deleted. <i>OWDstPortAid</i> is the AID OWAid .
SCOPE	SCOPE of deletion. This will indicate how far to delete the cross-connect. <i>SCOPE</i> is of type Scope . The default value is "NTWK".
PATH	Path on which to follow the cross-connect. <i>PATH</i> is of type Path . The default value is "Any provisioned".
INCL	INCLusive. This parameter provides a way for the user to request a forced deletion of a cross-connect even though the cross-connect is restricted (owned by an application within the C7 system). <i>INCL</i> is of type BoolYN . The default value is "N".

Input Example

```
DLT-CRS-OW:SYS3:N3-4-9-1-LINEOW,N8-3-9-1-
LINEOW:489:::SCOPE=SHELF,PATH=UNPROT,
INCL=N;
```

Errors

This message generates all of the [Default Errors](#).

DLT-CRS-T0

Name

DLT-CRS-T0: DLT CRS T0

Description

Category: TDM Services **Security:** Memory Admin - by rate

This command provides for disconnecting cross-connected DS0 object-entities. Defined in GR-199.

Related Messages:

[ALW-Swdx-GR303](#)
[DLT-GR303](#)
[DLT-IG-DS1](#)
[DLT-T1TG](#)
[ED-GR8](#)
[ENT-CRS-T0](#)

[ALW-Swdx-T1TG](#)
[DLT-GR8](#)
[DLT-T0](#)
[ED-GR303](#)
[ED-T0](#)
[ENT-GR303](#)

ENT-GR8	ENT-IG-DS1
ENT-T0	ENT-T1TG
INH-Swdx-GR303	INH-Swdx-T1TG
REPT ALM GR303	REPT ALM T0
REPT ALM T1TG	REPT EVT GR303
REPT EVT T0	REPT EVT T1TG
REPT RMV T0	REPT RST T0
REPT SW GR303	REPT SW T1TG
RMV-T0	RST-T0
RTRV-ALM-GR303	RTRV-ALM-T0
RTRV-ALM-T1TG	RTRV-COND-GR303
RTRV-COND-T0	RTRV-COND-T1TG
RTRV-CRS-T0	RTRV-CSTAT-T0
RTRV-DLSTAT-GR303	RTRV-DLSTAT-T1TG
RTRV-GR303	RTRV-GR8
RTRV-IG-DS1	RTRV-T0
RTRV-T1TG	SW-DX-GR303
SW-DX-T1TG	

Input Format

```
DLT-CRS-
T0:[TID]:<SrcDs0Aid>,[<DstDs0Aid>]:[CTAG]:::[ [SCOPE=<SCOPE>,>
[ INCL=<INCL> ] ];
```

Input Parameters

- SrcDs0Aid** Source Access Identifier. The access identifier of the source (from) endpoint of the cross-connect being deleted. *SrcDs0Aid* is the AID [CrsT0SrcAid](#) and is listable and rangeable.
- DstDs0Aid** Destination Access Identifier. The access identifier of the destination (to) endpoint of the cross-connect being deleted. *DstDs0Aid* is the AID [CrsT0DstAid](#).
- SCOPE** SCOPE of deletion. This will indicate how far to delete the cross-connect. *SCOPE* is of type [Scope](#). The default value is "NTWK".
- INCL** INCLusive. This parameter provides a way for the user to request a forced deletion of a T0 cross-connect when the remote shelf is unreachable. *INCL* is of type [BoolYN](#). The default value is "N".

Input Example

```
DLT-CRS-T0:SYS2:N4-5-5-12,N8-3-1-3:87:::SCOPE=SHELF,INCL=N;
```

Errors

This message generates all of the [Default Errors](#).

DLT-CRS-T1

Name

DLT-CRS-T1: Delete Cross Connect Digital Signal One

Description

Category: Cross Connect **Security:** Memory Admin - by rate

This command provides for disconnecting cross-connected DS1 object-entities.

Defined in GR-199.

Related Messages:

[DLT-AP-T1](#)

[DLT-T1](#)

[ED-T1](#)

[ENT-CRS-T1](#)

[ENT-T1](#)

[OPR-LPBK-T1](#)

[REPT EVT T1](#)

[REPT RST T1](#)

[RMV-T1](#)

[RTRV-ALM-T1](#)

[RTRV-CRS-T1](#)

[RTRV-PM-T1](#)

[DLT-GOS-T1](#)

[ED-GOS-T1](#)

[ENT-AP-T1](#)

[ENT-GOS-T1](#)

[INIT-REG-T1](#)

[REPT ALM T1](#)

[REPT RMV T1](#)

[RLS-LPBK-T1](#)

[RST-T1](#)

[RTRV-COND-T1](#)

[RTRV-GOS-T1](#)

[RTRV-T1](#)

Input Format

```
DLT-CRS-
T1:[TID]:<SrcDs1Aid>,[<DstDs1Aid>]:[CTAG]:::[ [SCOPE=<SCOPE>,<SCOPE>]
[PATH=<PATH>,<PATH>][INTERNAL=<INTERNAL>,<INTERNAL>][INCL=<INCL>,<INCL>]];
```

Input Parameters

SrcDs1Aid Source Access Identifier. The access identifier of the source (from) endpoint of the cross-connect being deleted. *SrcDs1Aid* is the AID [T1CrsAid](#).

DstDs1Aid Destination Access Identifier. The access identifier of the destination (to) endpoint of the cross-connect being deleted. *DstDs1Aid* is the AID [T1CrsAid](#).

SCOPE SCOPE of deletion. This will indicate how far to delete the cross-connect. *SCOPE* is of

type [Scope](#). The default value is "NTWK".

PATH Path on which to follow the cross-connect. *PATH* is of type [Path](#). The default value is "Any provisioned".

INTERNAL Internal Cross Connects. If present, this parameter specifies the deletion of otherwise hidden cross connects created internally by the C7. It is intended for use only by system experts or C7 support personnel. *INTERNAL* is of type [InternalCrsTypes](#) and is listable. The default value is "NONE".

INCL INCLusive. This parameter provides a way for the user to request a forced deletion of a cross-connect even though the cross-connect is restricted (owned by an application within the C7 system). *INCL* is of type [BoolYN](#). The default value is "N".

Input Example

```
DLT-CRS-T1:SYS2:N4-5-5-12,N8-3-1-
3:87:::SCOPE=SHELF,PATH=UNPROT,INTERNAL=ALL,
INCL=N;
```

Errors

This message generates all of the [Default Errors](#).

DLT-CRS-VC

Name

DLT-CRS-VC: Delete Cross Connect Virtual Circuit

Description

Category: Cross Connect **Security:** Memory Admin - by rate

This command provides for disconnecting cross-connected VC object-entities.

Defined in GR-199.

Related Messages:

[ACT-PROTN-VC](#)
[DLT-CRS-VP](#)
[DLT-PROF-TRF](#)
[ED-CRS-VP](#)
[ENT-CRS-VC](#)
[ENT-PP](#)

[ACT-PROTN-VP](#)
[DLT-PP](#)
[ED-CRS-VC](#)
[ED-PROF-TRF](#)
[ENT-CRS-VP](#)
[ENT-PROF-TRF](#)

INIT-CSTAT-VC	INIT-CSTAT-VP
INJ-LPBK-VC	INJ-LPBK-VP
MV-CRS-VC	MV-CRS-VP
OPR-CC-VC	OPR-CC-VP
REPT ALM PP	REPT EVT PP
REPT EVT VC	REPT EVT VP
REPT RMV PP	REPT RST PP
RLS-CC-VC	RLS-CC-VP
RMV-PP	RST-PP
RTRV-ALM-PP	RTRV-COND-PP
RTRV-CRS-VC	RTRV-CRS-VP
RTRV-CSTAT-VC	RTRV-CSTAT-VP
RTRV-PP	RTRV-PROF-TRF
RTRV-VTI	

Input Format

```
DLT-CRS-
VC:[TID]:<SrcVcAid>,[<DstVcAid>]:[CTAG]:::[ SCOPE=<SCOPE> , ]
 [ PATH=<PATH> , ][ INTERNAL=<INTERNAL> , ][ INCL=<INCL> ] ;
```

Input Parameters

SrcVcAid	Source Access Identifier. The access identifier of the source (from) endpoint of the cross-connect being deleted. <i>SrcVcAid</i> is the AID VcId14 .
DstVcAid	Destination Access Identifier. The access identifier of the destination (to) endpoint of the cross-connect being deleted. <i>DstVcAid</i> is the AID VcId16 .
SCOPE	SCOPE of deletion. This will indicate how far to delete the cross-connect. <i>SCOPE</i> is of type Scope . The default value is "NTWK".
PATH	Path on which to follow the cross-connect. <i>PATH</i> is of type Path . The default value is "Any provisioned".
INTERNAL	Internal Cross Connects. If present, this parameter specifies the deletion of otherwise hidden cross connects created internally by the C7. It is intended for use only by system experts or C7 support personnel. <i>INTERNAL</i> is of type InternalCrsTypes and is listable. The default value is "NONE".
INCL	INCLusive. This parameter provides a way for the user to request a forced deletion of a cross-connect even though the cross-connect is restricted (owned by an application within the C7 system). <i>INCL</i> is of type BoolYN . The default value is "N".

Input Example

```
DLT-CRS-VC:SYS2:N4-5-5-11-VP4094-VC65535,N8-3-9-1-4-VP4094-
VC65535:76:::
SCOPE=SHELF,PATH=UNPROT,INTERNAL=ALL,INCL=N;
```

Errors

This message generates all of the [Default Errors](#).

DLT-CRS-VIDVC

Name

DLT-CRS-VIDVC: Delete Cross Connect Video VC

Description

Category: Cross Connect **Security:** Memory Admin - by rate

This command provides for disconnecting cross-connected video VC object-entities.

Input Format

```
DLT-CRS-VIDVC:[TID]:<SrcVcAid>,<DstVcAid>:[CTAG]:::  
IRCAID=<IrcAid>,[ [ INTERNAL=<INTERNAL> , ][ INCL=<INCL> ] ] ;
```

Input Parameters

- | | |
|-----------------|--|
| SrcVcAid | Source Access Identifier. The access identifier of the source (from) endpoint of the cross-connect being deleted. <i>SrcVcAid</i> is the AID VidvcId1 . |
| DstVcAid | Destination Access Identifier. The access identifier of the destination (to) endpoint of the cross-connect being deleted. <i>DstVcAid</i> is the AID VidvcId1 . |
| IrcAid | Slot address of the IRC. <i>IrcAid</i> is the AID SlotLuAid . |
| INTERNAL | Internal Cross Connects. If present, this parameter specifies the deletion of otherwise hidden cross connects created internally by the C7. It is intended for use only by system experts or C7 support personnel. <i>INTERNAL</i> is of type InternalCrsTypes and is listable. The default value is "NONE". |
| INCL | INCLUSIVE. This parameter provides a way for the user to request a forced deletion of a video cross-connect from the IRC when the cross-connect does not exist in the RAPs database. <i>INCL</i> is of type BoolYN . The default value is "N". |

Input Example

```
DLT-CRS-VIDVC:SYS1:N1-1-2-3-1-VP1-VC100,N1-1-2-3-2-VP1-  
VC100:CTAG:::  
IRCAID=N1-1-5,INTERNAL=ALL,INCL=N;
```

Errors

This message generates all of the [Default Errors](#).

DLT-CRS-VP

Name

DLT-CRS-VP: Delete Cross Connect Virtual Path

Description

Category: Cross Connect **Security:** Memory Admin - by rate

This command provides for disconnecting cross-connected VP object-entities.

Defined in GR-199.

Related Messages:

[ACT-PROTN-VC](#)
[DLT-CRS-VC](#)
[DLT-PROF-TRF](#)
[ED-CRS-VP](#)
[ENT-CRS-VC](#)
[ENT-PP](#)
[INIT-CSTAT-VC](#)
[INJ-LPBK-VC](#)
[MV-CRS-VC](#)
[OPR-CC-VC](#)
[REPT ALM PP](#)
[REPT EVT VC](#)
[REPT RMV PP](#)
[RLS-CC-VC](#)
[RMV-PP](#)
[RTRV-ALM-PP](#)
[RTRV-CRS-VC](#)
[RTRV-CSTAT-VC](#)
[RTRV-PP](#)
[RTRV-VTI](#)

[ACT-PROTN-VP](#)
[DLT-PP](#)
[ED-CRS-VC](#)
[ED-PROF-TRF](#)
[ENT-CRS-VP](#)
[ENT-PROF-TRF](#)
[INIT-CSTAT-VP](#)
[INJ-LPBK-VP](#)
[MV-CRS-VP](#)
[OPR-CC-VP](#)
[REPT EVT PP](#)
[REPT EVT VP](#)
[REPT RST PP](#)
[RLS-CC-VP](#)
[RST-PP](#)
[RTRV-COND-PP](#)
[RTRV-CRS-VP](#)
[RTRV-CSTAT-VP](#)
[RTRV-PROF-TRF](#)

Input Format

DLT-CRS-

```
VP:[TID]:<SrcVpAid>,[<DstVpAid>]:[CTAG]:::[ [SCOPE=<SCOPE>,<SCOPE>],  
[PATH=<PATH>,<PATH>], [INTERNAL=<INTERNAL>,<INTERNAL>], [INCL=<INCL>,<INCL>]];
```

Input Parameters

SrcVpAid	Source Access Identifier. The access identifier of the source (from) endpoint of the cross-connect being deleted. <i>SrcVpAid</i> is the AID VpAid .
DstVpAid	Destination Access Identifier. The access identifier of the destination (to) endpoint of the cross-connect being deleted. <i>DstVpAid</i> is the AID VpAid .
SCOPE	SCOPE of deletion. This will indicate how far to delete the cross-connect. <i>SCOPE</i> is of type Scope . The default value is "NTWK".
PATH	Path on which to follow the cross-connect. <i>PATH</i> is of type Path . The default value is "Any provisioned".
INTERNAL	Internal Cross Connects. If present, this parameter specifies the deletion of otherwise hidden cross connects created internally by the C7. It is intended for use only by system experts or C7 support personnel. <i>INTERNAL</i> is of type InternalCrsTypes and is listable. The default value is "NONE".
INCL	INCLusive. This parameter provides a way for the user to request a forced deletion of a cross-connect even though the cross-connect is restricted (owned by an application within the C7 system). <i>INCL</i> is of type BoolYN . The default value is "N".

Input Example

```
DLT-CRS-VP:SYS2:N4-5-5-1-VP4093,N8-3-1-1-5-  
VP4091:76:::SCOPE=SHELF,  
PATH=UNPROT,INTERNAL=ALL,INCL=N;
```

Errors

This message generates all of the [Default Errors](#).

DLT-CVIDREG

Name

DLT-CVIDREG: Delete CVIDREG

Description

Category: IP **Security:** Memory Admin - by rate

Not supported in release 6.0.

Related Messages:

DLT-IGMP-JOIN	DLT-MACHOST
DLT-VB	DLT-VBPORT
DLT-VLAN-VBPORT	DLT-VR
DLT-VRPORT	ED-CVIDREG
ED-IGMP	ED-MACHOST
ED-VB	ED-VBPORT
ED-VLAN-VBPORT	ED-VR
ENT-CVIDREG	ENT-IGMP-JOIN
ENT-MACHOST	ENT-VB
ENT-VBPORT	ENT-VLAN-VBPORT
ENT-VR	ENT-VRPORT
REPT ALM VB	REPT ALM VR
REPT EVT VB	REPT EVT VR
RTRV-ALM-VB	RTRV-ALM-VR
RTRV-CVIDREG	RTRV-IGMP
RTRV-IGMP-JOIN	RTRV-MACHOST
RTRV-VB	RTRV-VBPORT
RTRV-VLAN-VBPORT	RTRV-VR
RTRV-VRPORT	

Input Format

```
DLT-CVIDREG:[TID]:<CVidRegAid>:[CTAG];
```

Input Parameters

CVidRegAid *CVidRegAid* is the AID [CVidRegAid](#).

Input Example

```
DLT-CVIDREG:SYS:N2-1-VB3-5-4:123;
```

Errors

This message generates all of the [Default Errors](#).

DLT-DHCP-OUI

Name

DLT-DHCP-OUI: Delete DHCP OUI

Description

Category: IP **Security:** Memory Admin - by rate

This command deletes provisioned information that allows the DHCP server to forward discover requests to the appropriate relay server based on the OUI in the discover message. The relay server is identified by the gateway IP address.

The OUI 00-00-00 has the following special meaning. If the OUI in the discover message is not associated with a relay server, then use the relay server associated with OUI 00-00-00 if this association exists. Otherwise, the discover request is not forwarded.

Related Messages:

[DLT-IP-IF](#)

[DLT-IPIF-PORT](#)

[DLT-VID-CHAN](#)

[DLT-VID-SUB](#)

[DLT-VODCLNT](#)

[DLT-VODFLOW](#)

[DLT-VODSVR](#)

[ED-IPIF-PORT](#)

[ED-VID-SUB](#)

[ED-VODDSTLU](#)

[ENT-IP-IF](#)

[ENT-IPIF-PORT](#)

[ENT-VID-CHAN](#)

[ENT-VID-SUB](#)

[ENT-VODDSTLU](#)

[RTRV-ARP](#)

[RTRV-DHCP-OUI](#)

[RTRV-IP-ROUTE](#)

[RTRV-SUBIF-BINDING](#)

[RTRV-VID-IRCLOC](#)

[RTRV-VID-SVC](#)

[RTRV-VODDSTLU](#)

[RTRV-VODSRCLU](#)

[DLT-IP-ROUTE](#)

[DLT-SUBIF-BINDING](#)

[DLT-VID-IRCLOC](#)

[DLT-VID-SVC](#)

[DLT-VODDSTLU](#)

[DLT-VODSRCLU](#)

[ED-ARP](#)

[ED-VID-CHAN](#)

[ED-VID-SVC](#)

[ENT-DHCP-OUI](#)

[ENT-IP-ROUTE](#)

[ENT-SUBIF-BINDING](#)

[ENT-VID-IRCLOC](#)

[ENT-VID-SVC](#)

[REPT EVT VODFLOW](#)

[RTRV-DHCP-LEASE](#)

[RTRV-IP-IF](#)

[RTRV-IPIF-PORT](#)

[RTRV-VID-CHAN](#)

[RTRV-VID-SUB](#)

[RTRV-VODCLNT](#)

[RTRV-VODFLOW](#)

[RTRV-VODSVR](#)

Input Format

DLT-DHCP-OUI:[TID]:<OUIAID>:[CTAG]:::RTRAID=<RTRAID>;

Input Parameters

OUIAID Organizationally Unique Identifier. The OUI is first 3 octets of the MAC address and identifies the vendor *OUIAID* is the AID [QuiAid](#).

RTRAID Router AID - target Virtual Router, or IRC slot address. *RTRAID* is the AID [RouterAid](#).

Input Example

```
DLT-DHCP-OUI:SYS3:01-02-03:CTAG:::RTRAID=N1-2-3;
```

Errors

This message generates all of the [Default Errors](#).

DLT-DHCPSVR

Name

DLT-DHCPSVR: Delete DHCPSVR

Description

Category: IP **Security:** Memory Admin - by rate

delete DHCP server.

Input Format

```
DLT-DHCPSVR:[TID]:<IP>:[CTAG]:::RTRAID=<RTRAID>;
```

Input Parameters

IP DHCP Server IP Address. *IP* is the AID [IpAid](#).

RTRAID *RTRAID* is the AID [RouterAid](#).

Input Example

```
DLT-DHCPSVR:SYS1:192.168.1.2:CTAG:::RTRAID=N1-2-VR3;
```

Errors

This message generates all of the [Default Errors](#).

DLT-EC1

Name

DLT-EC1: Delete Electrical Carrier

Description

Category: EC1 Facility **Security:** Memory Admin - by rate

This command disconnects an EC1 entity from the database.

Related Messages:

DLT-GOS-EC1	ED-EC1
ED-GOS-EC1	ENT-EC1
ENT-GOS-EC1	INIT-REG-EC1
OPR-LPBK-EC1	REPT ALM EC1
REPT EVT EC1	REPT RMV EC1
REPT RST EC1	RLS-LPBK-EC1
RMV-EC1	RST-EC1
RTRV-ALM-EC1	RTRV-COND-EC1
RTRV-EC1	RTRV-GOS-EC1
RTRV-PM-EC1	

Input Format

DLT-EC1:[TID]:<Ec1Aid>:[CTAG]::[LBO=<LBO>];

Input Parameters

Ec1Aid Access Identifier. The access identifier of the EC1 being deleted. *Ec1Aid* is the AID [TwelvePortLuAid](#).

LBO LineBuildOut. *LBO* is a Integer.

Input Example

DLT-EC1:SYS1:N3-3-3-3:435::LBO=5;

Errors

This message generates all of the [Default Errors](#).

DLT-EQPT

Name

DLT-EQPT: Delete Equipment

Description

Category: Equipment **Security:** Memory Admin - by rate

This command removes the provisioning for common equipment from the current slot definition and if equipment exists within the slot it will automatically default assigns the equipment based on current equipage.

The delete will be disallowed if subtending facilities are provisioned and/or cross-connects are present on the facility or subtending facilities.

Defined by GR-199.

Related Messages:

[ALW-Swdx-EQPT](#)
[ALW-SWTOWKG-EQPT](#)
[ENT-EQPT](#)
[INH-SWTOPROTN-EQPT](#)
[REPT ALM EQPT](#)
[REPT RMV EQPT](#)
[RMV-EQPT](#)
[RTRV-ALM-EQPT](#)
[RTRV-EQPT](#)
[SW-TOPROTN-EQPT](#)

[ALW-SWTOPROTN-EQPT](#)
[ED-EQPT](#)
[INH-Swdx-EQPT](#)
[INH-SWTOWKG-EQPT](#)
[REPT EVT EQPT](#)
[REPT RST EQPT](#)
[RST-EQPT](#)
[RTRV-COND-EQPT](#)
[SW-DX-EQPT](#)
[SW-TOWKG-EQPT](#)

Input Format

```
DLT-EQPT:[TID]:<EqptAid>:[CTAG];
```

Input Parameters

EqptAid Equipment Access Identifier. The access identifier for the equipment entity being deleted.
EqptAid is the AID [EquipmentId](#) and is listable.

Input Example

```
DLT-EQPT:SYS2:N3-4-5:345;
```

Errors

This message generates all of the [Default Errors](#).

DLT-ETH

Name

DLT-ETH: Delete ETH

Description

Category: Ethernet **Security:** Memory Admin - by rate

Deletes an external ethernet port from the system.

Related Messages:

[DLT-AGG](#)

[DLT-AGG-ACL](#)

[DLT-AGG-PORT](#)

[DLT-ETH-ACL](#)

[DLT-GOS-ETH](#)

[DLT-LSWITCH](#)

[DLT-LSWITCH-PORT](#)

[DLT-PROF-ETH](#)

[DLT-VLAN](#)

[DLT-VLAN-PORT](#)

[DLT-VLAN-VBPORT](#)

[ED-ETH](#)

[ED-GOS-ETH](#)

[ED-VLAN](#)

[ED-VLAN-PORT](#)

[ED-VLAN-VBPORT](#)

[ENT-AGG](#)

[ENT-AGG-ACL](#)

[ENT-AGG-PORT](#)

[ENT-ETH](#)

[ENT-ETH-ACL](#)

[ENT-GOS-ETH](#)

[ENT-LSWITCH](#)

[ENT-LSWITCH-PORT](#)

[ENT-PROF-ETH](#)

[ENT-VLAN](#)

[ENT-VLAN-PORT](#)

[ENT-VLAN-VBPORT](#)

[INIT-LSWITCH](#)

[INIT-STAT-ETH](#)

[REPT ALM ETH](#)

[REPT EVT ETH](#)

[REPT RMV ETH](#)
[RMV-ETH](#)
[RTRV-AGG](#)
[RTRV-AGG-PORT](#)
[RTRV-COND-ETH](#)
[RTRV-ETH-ACL](#)
[RTRV-LSWITCH](#)
[RTRV-PM-ETH](#)
[RTRV-STAT-ETH](#)
[RTRV-VLAN-PORT](#)

[REPT RST ETH](#)
[RST-ETH](#)
[RTRV-AGG-ACL](#)
[RTRV-ALM-ETH](#)
[RTRV-ETH](#)
[RTRV-GOS-ETH](#)
[RTRV-LSWITCH-PORT](#)
[RTRV-PROF-ETH](#)
[RTRV-VLAN](#)
[RTRV-VLAN-VBPORT](#)

Input Format

```
DLT-ETH:[TID]:<EthPortAid>:[CTAG];
```

Input Parameters

EthPortAid Ethernet Access Identifier. *EthPortAid* is the AID [EthId1](#).

Input Example

```
DLT-ETH:SYS2:N3-1-4-12:98;
```

Errors

This message generates all of the [Default Errors](#).

DLT-ETH-ACL

Name

DLT-ETH-ACL: Delete ETH ACL

Description

Category: Ethernet **Security:** Memory Admin - by rate

Deletes an Access Control List on the external port.

If a MAC-Address is included as an input parameter, only that specific address is removed from the list. The rest of the list is still active.

If the user specifies no MAC-Address, the entire list will be deleted.

An Address Control List consists of up to 8 Src address/mask pairs. Filtering on this port is always inclusive.

This command is not currently supported.

Related Messages:

[DLT-AGG](#)

[DLT-AGG-PORT](#)

[DLT-GOS-ETH](#)

[DLT-LSWITCH-PORT](#)

[DLT-VLAN](#)

[DLT-VLAN-VBPORT](#)

[ED-GOS-ETH](#)

[ED-VLAN-PORT](#)

[ENT-AGG](#)

[ENT-AGG-PORT](#)

[ENT-ETH-ACL](#)

[ENT-LSWITCH](#)

[ENT-PROF-ETH](#)

[ENT-VLAN-PORT](#)

[INIT-LSWITCH](#)

[REPT ALM ETH](#)

[REPT RMV ETH](#)

[RMV-ETH](#)

[RTRV-AGG](#)

[RTRV-AGG-PORT](#)

[RTRV-COND-ETH](#)

[RTRV-ETH-ACL](#)

[RTRV-LSWITCH](#)

[RTRV-PM-ETH](#)

[RTRV-STAT-ETH](#)

[RTRV-VLAN-PORT](#)

[DLT-AGG-ACL](#)

[DLT-ETH](#)

[DLT-LSWITCH](#)

[DLT-PROF-ETH](#)

[DLT-VLAN-PORT](#)

[ED-ETH](#)

[ED-VLAN](#)

[ED-VLAN-VBPORT](#)

[ENT-AGG-ACL](#)

[ENT-ETH](#)

[ENT-GOS-ETH](#)

[ENT-LSWITCH-PORT](#)

[ENT-VLAN](#)

[ENT-VLAN-VBPORT](#)

[INIT-STAT-ETH](#)

[REPT EVT ETH](#)

[REPT RST ETH](#)

[RST-ETH](#)

[RTRV-AGG-ACL](#)

[RTRV-ALM-ETH](#)

[RTRV-ETH](#)

[RTRV-GOS-ETH](#)

[RTRV-LSWITCH-PORT](#)

[RTRV-PROF-ETH](#)

[RTRV-VLAN](#)

[RTRV-VLAN-VBPORT](#)

Input Format

```
DLT-ETH-
ACL:[ TID ]:<EthPortAid>:[ CTAG ]::[ [ MAC=<MAC>, ] [ MMSK=<MMSK> ] ] ;
```

Input Parameters

EthPortAid Ethernet Port Access Identifier. *EthPortAid* is the AID [TwelvePortLuAid](#).

MAC MAC address *MAC* is the AID [MacAid](#).

MMSK Mac address mask *MMSK* is the AID [MacAid](#).

Input Example

```
DLT-ETH-ACL:SYS2:N3-1-4-3:98::MAC=01-23-45-67-89-AB,MMSK=01-23-
45-67-89-AB;
```

Errors

This message generates all of the [Default Errors](#).

DLT-FFP-<OCN>

Name

DLT-FFP-<[OCN](#)>: Delete Facilities Protection Group (OC12, OC3, OC48)

Description

Category: Protection Switching

Security: Memory Admin - by rate

This command provides for disconnecting members of an OCn protection group.

The delete will be disallowed if subtending facilities are provisioned and/or cross-connects are present on the facility.

Defined by GR-199.

Related Messages:

[DLT-<OCN>](#)
[ED-<OCN>](#)
[ED-GOS-<OCN>](#)
[ENT-FFP-<OCN>](#)
[INIT-REG-<OCN>](#)
[OPR-PROTNSW-<OCN>](#)
[REPT EVT <OCN>](#)
[REPT RST <OCN>](#)
[RLS-PROTNSW-<OCN>](#)
[RST-<OCN>](#)
[RTRV-ALM-<OCN>](#)
[RTRV-FFP-<OCN>](#)
[RTRV-PM-<OCN>](#)

[DLT-GOS-<OCN>](#)
[ED-FFP-<OCN>](#)
[ENT-<OCN>](#)
[ENT-GOS-<OCN>](#)
[OPR-LPBK-<OCN>](#)
[REPT ALM <OCN>](#)
[REPT RMV <OCN>](#)
[RLS-LPBK-<OCN>](#)
[RMV-<OCN>](#)
[RTRV-<OCN>](#)
[RTRV-COND-<OCN>](#)
[RTRV-GOS-<OCN>](#)

Input Format

```
DLT-FFP-<OCN>:[TID]:<WrkOcNAid>,
[<ProtOcNAid>]:[CTAG];
```

Input Parameters

WrkOcNAid Working OCn Access Identifier. The address of the port which receives the traffic from the working fiber in the facility protection group. *WrkOcNAid* is the AID [FourPortLuAndRapAid](#).

ProtOcNAid Protection Access Identifier. The address of the port which receives the traffic from the protect fiber in the facility protection group. *ProtOcNAid* is the AID [FourPortLuAndRapAid](#).

Input Example

```
DLT-FFP-OC12:SYS3:N255-3-20-1,N255-3-19-1:345;
```

Errors

This message generates all of the [Default Errors](#).

DLT-GOS-<OCN>

Name

DLT-GOS-<OCN>: Delete Grade of Service (OC12, OC3, OC48)

Description

Category: Performance Monitoring **Security:** Memory Admin - by rate

This command will delete the specified Grade of Service (GOS) index from the OCn GOS table and its associated performance parameters.

Defined in GR-199.

Related Messages:

[DLT-<OCN>](#)
[ED-<OCN>](#)
[ED-GOS-<OCN>](#)

[DLT-FFP-<OCN>](#)
[ED-FFP-<OCN>](#)
[ENT-<OCN>](#)

[ENT-FFP-<OCN>](#)
[INIT-REG-<OCN>](#)
[OPR-PROTNSW-<OCN>](#)
[REPT EVT <OCN>](#)
[REPT RST <OCN>](#)
[RLS-PROTNSW-<OCN>](#)
[RST-<OCN>](#)
[RTRV-ALM-<OCN>](#)
[RTRV-FFP-<OCN>](#)
[RTRV-PM-<OCN>](#)

[ENT-GOS-<OCN>](#)
[OPR-LPBK-<OCN>](#)
[REPT ALM <OCN>](#)
[REPT RMV <OCN>](#)
[RLS-LPBK-<OCN>](#)
[RMV-<OCN>](#)
[RTRV-<OCN>](#)
[RTRV-COND-<OCN>](#)
[RTRV-GOS-<OCN>](#)

Input Format

```
DLT-GOS-<OCN>:[ TID ]:<GosAid>:[ CTAG ] ;
```

Input Parameters

GosAid Grade of Service Access Identifier. The access identifier of the OCn Grade of Service table entry. *GosAid* is the AID [GosProvAid](#).

Input Example

```
DLT-GOS-OC12:SYS1:3:34 ;
```

Errors

This message generates all of the [Default Errors](#).

DLT-GOS-<STS>

Name

DLT-GOS-<[STS](#)>: Delete Grade of Service (STS1, STS12C, STS3C, STS48C)

Description

Category: Performance Monitoring **Security:** Memory Admin - by rate

This command will delete the specified Grade of Service (GOS) index from the STS GOS table and its associated performance parameters.

Defined in GR-199.

Related Messages:

[DLT-<STSN>](#)
[ED-<STSN>](#)
[ED-GOS-<STSN>](#)
[ENT-CRS-<STSN>](#)
[INIT-REG-<STSN>](#)
[REPT ALM <STSN>](#)
[REPT RMV <STSN>](#)
[RLS-PROTNSW-<STSN>](#)
[RST-<STSN>](#)
[RTRV-ALM-<STSN>](#)
[RTRV-CRS-<STSN>](#)
[RTRV-PM-<STSN>](#)

[DLT-CRS-<STSN>](#)
[ED-CRS-<STSN>](#)
[ENT-<STSN>](#)
[ENT-GOS-<STSN>](#)
[OPR-PROTNSW-<STSN>](#)
[REPT EVT <STSN>](#)
[REPT RST <STSN>](#)
[RMV-<STSN>](#)
[RTRV-<STSN>](#)
[RTRV-COND-<STSN>](#)
[RTRV-GOS-<STSN>](#)

Input Format

```
DLT-GOS-<STSN>:[ TID ]:<GosAid>:[ CTAG ] ;
```

Input Parameters

GosAid Grade of Service Access Identifier. The access identifier of the STS1 Grade of Service table entry. *GosAid* is the AID [GosProvAid](#).

Input Example

```
DLT-GOS-STS1:SYS1:3:34 ;
```

Errors

This message generates all of the [Default Errors](#).

DLT-GOS-ADSL

Name

DLT-GOS-ADSL: Delete Grade of Service Asymmetric Digital Subscriber Line

Description

Category: Performance Monitoring**Security:** Memory Admin - by rate

This command will delete the specified Grade of Service (GOS) index from the ADSL GOS table and its associated performance parameters.

Defined in GR-199.

Related Messages:[DLT-ADSL](#)[ED-ADSL](#)[ENT-ADSL](#)[ENT-TMPLT-ADSL](#)[INIT-PWR-ADSL](#)[REPT ALM ADSL](#)[REPT RMV ADSL](#)[RMV-ADSL](#)[RTRV-ADSL](#)[RTRV-COND-ADSL](#)[RTRV-GOS-ADSL](#)[RTRV-TMPLT-ADSL](#)[DLT-TMPLT-ADSL](#)[ED-GOS-ADSL](#)[ENT-GOS-ADSL](#)[INIT-ADSL](#)[INIT-REG-ADSL](#)[REPT EVT ADSL](#)[REPT RST ADSL](#)[RST-ADSL](#)[RTRV-ALM-ADSL](#)[RTRV-CSTAT-ADSL](#)[RTRV-PM-ADSL](#)**Input Format**

DLT-GOS-ADSL : [TID] : <GosAid> : [CTAG] ;

Input Parameters

GosAid Grade of Service Access Identifier. The access identifier of the ADSL Grade of Service table entry. *GosAid* is the AID [GosProvAid](#).

Input Example

DLT-GOS-ADSL : SYS1 : 3 : 34 ;

Errors

This message generates all of the [Default Errors](#).

DLT-GOS-AP

Name

DLT-GOS-AP: Delete Grade of Service ATM Resource Port

Description

Category: Performance Monitoring

Security: Memory Admin - by rate

This command will delete the specified Grade of Service (GOS) index from the AP GOS table and its associated performance parameters.

Related Messages:

[DLT-AP](#)
[DLT-GOS-IMA](#)
[DLT-IMA](#)
[ED-AP](#)
[ED-GOS-IMA](#)
[ED-IMA](#)
[ENT-AP-T1](#)
[ENT-GOS-IMA](#)
[ENT-IMA](#)
[INIT-REG-AP](#)
[INIT-REG-IMALINK](#)
[REPT ALM IMA](#)
[REPT EVT AP](#)
[REPT EVT IMALINK](#)
[REPT RST AP](#)
[RMV-IMA](#)
[RST-IMA](#)
[RTRV-ALM-IMA](#)
[RTRV-AP](#)
[RTRV-COND-IMA](#)
[RTRV-GOS-IMA](#)
[RTRV-IMA](#)
[RTRV-PM-IMA](#)

[DLT-AP-T1](#)
[DLT-GOS-IMALINK](#)
[DLT-IMA-PORT](#)
[ED-GOS-AP](#)
[ED-GOS-IMALINK](#)
[ENT-AP](#)
[ENT-GOS-AP](#)
[ENT-GOS-IMALINK](#)
[ENT-IMA-PORT](#)
[INIT-REG-IMA](#)
[REPT ALM AP](#)
[REPT ALM IMALINK](#)
[REPT EVT IMA](#)
[REPT RMV AP](#)
[RMV-AP](#)
[RST-AP](#)
[RTRV-ALM-AP](#)
[RTRV-ALM-IMALINK](#)
[RTRV-COND-AP](#)
[RTRV-GOS-AP](#)
[RTRV-GOS-IMALINK](#)
[RTRV-PM-AP](#)
[RTRV-PM-IMALINK](#)

Input Format

DLT-GOS-AP : [TID] : <GosAid> : [CTAG] ;
--

Input Parameters

GosAid *GosAid* is the AID [GosProvAid](#).

Input Example

```
DLT-GOS-AP:SYS1:3:34;
```

Errors

This message generates all of the [Default Errors](#).

DLT-GOS-EC1

Name

DLT-GOS-EC1: DLT GOS EC1

Description

Category: Performance Monitoring

Security: Memory Admin - by rate

This command will delete the specified Grade of Service (GOS) index from the EC1 GOS table and its associated performance parameters.

Defined in GR-199.

Related Messages:

[DLT-EC1](#)
[ED-GOS-EC1](#)
[ENT-GOS-EC1](#)
[OPR-LPBK-EC1](#)
[REPT EVT EC1](#)
[REPT RST EC1](#)
[RMV-EC1](#)
[RTRV-ALM-EC1](#)
[RTRV-EC1](#)
[RTRV-PM-EC1](#)

[ED-EC1](#)
[ENT-EC1](#)
[INIT-REG-EC1](#)
[REPT ALM EC1](#)
[REPT RMV EC1](#)
[RLS-LPBK-EC1](#)
[RST-EC1](#)
[RTRV-COND-EC1](#)
[RTRV-GOS-EC1](#)

Input Format

```
DLT-GOS-EC1:[TID]:<GosAid>:[CTAG];
```

Input Parameters

GosAid Grade of Service Access Identifier. The access identifier of the EC1 Grade of Service table entry. *GosAid* is the AID [GosProvAid](#).

Input Example

```
DLT-GOS-EC1:SYS1:3:34;
```

Errors

This message generates all of the [Default Errors](#).

DLT-GOS-ETH

Name

DLT-GOS-ETH: Delete Grade of Service Ethernet Port

Description

Category: Performance Monitoring

Security: Memory Admin - by rate

This command will delete the specified Grade of Service (GOS) index from the ETH GOS table and its associated performance parameters.

Defined in GR-199.

Not supported in release 5.1

Related Messages:

[DLT-AGG](#)

[DLT-AGG-ACL](#)

[DLT-AGG-PORT](#)

[DLT-ETH](#)

[DLT-ETH-ACL](#)

[DLT-LSWITCH](#)

[DLT-LSWITCH-PORT](#)

[DLT-PROF-ETH](#)

[DLT-VLAN](#)

[DLT-VLAN-PORT](#)

[DLT-VLAN-VBPORT](#)

[ED-ETH](#)

[ED-GOS-ETH](#)

[ED-VLAN](#)

[ED-VLAN-PORT](#)

[ED-VLAN-VBPORT](#)

[ENT-AGG](#)

[ENT-AGG-ACL](#)

[ENT-AGG-PORT](#)

[ENT-ETH](#)

[ENT-ETH-ACL](#)

[ENT-GOS-ETH](#)

[ENT-LSWITCH](#)

[ENT-LSWITCH-PORT](#)

ENT-PROF-ETH	ENT-VLAN
ENT-VLAN-PORT	ENT-VLAN-VBPORT
INIT-LSWITCH	INIT-STAT-ETH
REPT ALM ETH	REPT EVT ETH
REPT RMV ETH	REPT RST ETH
RMV-ETH	RST-ETH
RTRV-AGG	RTRV-AGG-ACL
RTRV-AGG-PORT	RTRV-ALM-ETH
RTRV-COND-ETH	RTRV-ETH
RTRV-ETH-ACL	RTRV-GOS-ETH
RTRV-LSWITCH	RTRV-LSWITCH-PORT
RTRV-PM-ETH	RTRV-PROF-ETH
RTRV-STAT-ETH	RTRV-VLAN
RTRV-VLAN-PORT	RTRV-VLAN-VBPORT

Input Format

```
DLT-GOS-ETH:[TID]:<GosAid>:[CTAG];
```

Input Parameters

GosAid *GosAid* is the AID [GosProvAid](#).

Input Example

```
DLT-GOS-ETH:SYS1:3:34;
```

Errors

This message generates all of the [Default Errors](#).

DLT-GOS-HDSL

Name

DLT-GOS-HDSL: Delete Grade of Service High bit rate Digital Subscriber Line

Description

Category: Performance Monitoring

Security: Memory Admin - by rate

This command will delete the specified Grade of Service (GOS) index from the HDSL GOS table and its associated performance parameters.

Defined in GR-199.

Related Messages:

[DLT-HDSL](#)

[ED-HDSL](#)

[ENT-HDSL](#)

[INIT-REG-HDSL](#)

[REPT ALM HDSL](#)

[REPT RMV HDSL](#)

[RLS-LPBK-HDSL](#)

[RST-HDSL](#)

[RTRV-COND-HDSL](#)

[RTRV-GOS-HDSL](#)

[RTRV-HTU](#)

[ED-GOS-HDSL](#)

[ENT-GOS-HDSL](#)

[INIT-HDSL](#)

[OPR-LPBK-HDSL](#)

[REPT EVT HDSL](#)

[REPT RST HDSL](#)

[RMV-HDSL](#)

[RTRV-ALM-HDSL](#)

[RTRV-CSTAT-HDSL](#)

[RTRV-HDSL](#)

[RTRV-PM-HDSL](#)

Input Format

```
DLT-GOS-HDSL:[ TID ]:<GosAid>:[ CTAG ];
```

Input Parameters

GosAid Grade of Service Access Identifier. The access identifier of the EC1 Grade of Service table entry. *GosAid* is the AID [GosProvAid](#).

Input Example

```
DLT-GOS-HDSL:SYS1:3:34;
```

Errors

This message generates all of the [Default Errors](#).

DLT-GOS-IMA

Name

DLT-GOS-IMA: DLT GOS IMA

Description

Category: Performance Monitoring

Security: Memory Admin - by rate

This command will delete the specified Grade of Service (GOS) index from the IMA GOS table and its associated performance parameters.

Related Messages:

[DLT-AP](#)
[DLT-GOS-AP](#)
[DLT-IMA](#)
[ED-AP](#)
[ED-GOS-IMA](#)
[ED-IMA](#)
[ENT-AP-T1](#)
[ENT-GOS-IMA](#)
[ENT-IMA](#)
[INIT-REG-AP](#)
[INIT-REG-IMALINK](#)
[REPT ALM IMA](#)
[REPT EVT AP](#)
[REPT EVT IMALINK](#)
[REPT RST AP](#)
[RMV-IMA](#)
[RST-IMA](#)
[RTRV-ALM-IMA](#)
[RTRV-AP](#)
[RTRV-COND-IMA](#)
[RTRV-GOS-IMA](#)
[RTRV-IMA](#)
[RTRV-PM-IMA](#)

[DLT-AP-T1](#)
[DLT-GOS-IMALINK](#)
[DLT-IMA-PORT](#)
[ED-GOS-AP](#)
[ED-GOS-IMALINK](#)
[ENT-AP](#)
[ENT-GOS-AP](#)
[ENT-GOS-IMALINK](#)
[ENT-IMA-PORT](#)
[INIT-REG-IMA](#)
[REPT ALM AP](#)
[REPT ALM IMALINK](#)
[REPT EVT IMA](#)
[REPT RMV AP](#)
[RMV-AP](#)
[RST-AP](#)
[RTRV-ALM-AP](#)
[RTRV-ALM-IMALINK](#)
[RTRV-COND-AP](#)
[RTRV-GOS-AP](#)
[RTRV-GOS-IMALINK](#)
[RTRV-PM-AP](#)
[RTRV-PM-IMALINK](#)

Input Format

```
DLT-GOS-IMA:[TID]:<GosAid>:[CTAG];
```

Input Parameters

GosAid Grade of Service Access Identifier. The address of the IMA Grade of Service table entry.
GosAid is the AID [GosProvAid](#).

Input Example

```
DLT-GOS-IMA:SYS1:3:324;
```

Errors

This message generates all of the [Default Errors](#).

DLT-GOS-IMALINK

Name

DLT-GOS-IMALINK: Delete Grade of Service IMA Link

Description

Category: Performance Monitoring

Security: Memory Admin - by rate

This command will delete the specified Grade of Service (GOS) index from the IMA Link GOS table and its associated performance parameters.

Related Messages:

[DLT-AP](#)

[DLT-AP-T1](#)

[DLT-GOS-AP](#)

[DLT-GOS-IMA](#)

[DLT-IMA](#)

[DLT-IMA-PORT](#)

[ED-AP](#)

[ED-GOS-AP](#)

[ED-GOS-IMA](#)

[ED-GOS-IMALINK](#)

[ED-IMA](#)

[ENT-AP](#)

[ENT-AP-T1](#)

[ENT-GOS-AP](#)

[ENT-GOS-IMA](#)

[ENT-GOS-IMALINK](#)

[ENT-IMA](#)

[ENT-IMA-PORT](#)

[INIT-REG-AP](#)

[INIT-REG-IMA](#)

[INIT-REG-IMALINK](#)

[REPT ALM AP](#)

[REPT ALM IMA](#)

[REPT ALM IMALINK](#)

[REPT EVT AP](#)

[REPT EVT IMA](#)

[REPT EVT IMALINK](#)

[REPT RMV AP](#)

[REPT RST AP](#)

[RMV-AP](#)

[RST-IMA](#)

[RST-AP](#)

[RTRV-ALM-IMA](#)

[RTRV-ALM-AP](#)

[RTRV-AP](#)

[RTRV-COND-AP](#)

[RTRV-COND-IMA](#)

[RTRV-GOS-AP](#)

[RTRV-GOS-IMA](#)

[RTRV-GOS-IMALINK](#)

[RTRV-IMA](#)
[RTRV-PM-IMA](#)

[RTRV-PM-AP](#)
[RTRV-PM-IMALINK](#)

Input Format

```
DLT-GOS-IMALINK:[TID]:<GosAid>:[CTAG];
```

Input Parameters

GosAid Grade of Service Access Identifier. The address of the IMA Link Grade of Service table entry.
GosAid is the AID [GosProvAid](#).

Input Example

```
DLT-GOS-IMALINK:SYS1:3:34;
```

Errors

This message generates all of the [Default Errors](#).

DLT-GOS-ONT

Name

DLT-GOS-ONT: Delete Grade of Service Optical Network Termination

Description

Category: Performance Monitoring **Security:** Memory Admin - by rate

This command will delete the specified Grade of Service (GOS) index from the PON GOS table and its associated performance parameters.

Defined in GR-199.

Not supported in release 5.1

Related Messages:

[DLT-AVO](#)
[DLT-ONT](#)
[DLT-RFVID](#)

[DLT-IG-VDS1](#)
[DLT-PROF-ONT](#)
[DLT-VCG](#)

DLT-VRP	ED-AVO
ED-GOS-ONT	ED-ONT
ED-PROF-ONT	ED-RFVID
ED-VCG	ED-VRP
ENT-AVO	ENT-GOS-ONT
ENT-IG-VDS1	ENT-ONT
ENT-PROF-ONT	ENT-RFVID
ENT-VCG	ENT-VRP
INIT-ONT-UA	INIT-REG-ONT
REPT ALM AVO	REPT ALM ONT
REPT ALM RFVID	REPT ALM VCG
REPT ALM VRP	REPT EVT ONT
REPT RMV AVO	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

DLT-GOS-ONT : [TID] : <GosAid> : [CTAG] ;

Input Parameters

GosAid *GosAid* is the AID [GosProvAid](#).

Input Example

DLT-GOS-ONT : SYS1 : 3 : 34 ;

Errors

This message generates all of the [Default Errors](#).

DLT-GOS-T1

Name

DLT-GOS-T1: Delete Grade of Service Digital Signal 1

Description

Category: Performance Monitoring

Security: Memory Admin - by rate

This command will delete the specified Grade of Service (GOS) index from the T1 GOS table and its associated performance parameters.

Defined in GR-199.

Related Messages:

[DLT-AP-T1](#)

[DLT-T1](#)

[ED-T1](#)

[ENT-CRS-T1](#)

[ENT-T1](#)

[OPR-LPBK-T1](#)

[REPT EVT T1](#)

[REPT RST T1](#)

[RMV-T1](#)

[RTRV-ALM-T1](#)

[RTRV-CRS-T1](#)

[RTRV-PM-T1](#)

[DLT-CRS-T1](#)

[ED-GOS-T1](#)

[ENT-AP-T1](#)

[ENT-GOS-T1](#)

[INIT-REG-T1](#)

[REPT ALM T1](#)

[REPT RMV T1](#)

[RLS-LPBK-T1](#)

[RST-T1](#)

[RTRV-COND-T1](#)

[RTRV-GOS-T1](#)

[RTRV-T1](#)

Input Format

```
DLT-GOS-T1:[TID]:<GosAid>:[CTAG];
```

Input Parameters

GosAid Grade of Service Access Identifier. The access identifier of the T1 Grade of Service table entry.
GosAid is the AID [GosProvAid](#).

Input Example

DLT-GOS-T1:SYS1:3:34;

Errors

This message generates all of the [Default Errors](#).

DLT-GOS-T3

Name

DLT-GOS-T3: Delete Grade of Service Digital Service 3

Description

Category: Performance Monitoring

Security: Memory Admin - by rate

This command will delete the specified Grade of Service (GOS) index from the T3 GOS table and its associated performance parameters.

Defined in GR-199.

Related Messages:

[DLT-T3](#)
[ED-T3](#)
[ENT-T3](#)
[OPR-LPBK-T3](#)
[REPT EVT T3](#)
[REPT RST T3](#)
[RMV-T3](#)
[RTRV-ALM-T3](#)
[RTRV-GOS-T3](#)
[RTRV-T3](#)

[ED-GOS-T3](#)
[ENT-GOS-T3](#)
[INIT-REG-T3](#)
[REPT ALM T3](#)
[REPT RMV T3](#)
[RLS-LPBK-T3](#)
[RST-T3](#)
[RTRV-COND-T3](#)
[RTRV-PM-T3](#)

Input Format

DLT-GOS-T3 : [TID] : <GosAid> : [CTAG] ;
--

Input Parameters

GosAid Grade of Service Access Identifier. The access identifier of the T3 Grade of Service table entry.

GosAid is the AID [GosProvAid](#).

Input Example

```
DLT-GOS-T3:SYS1:3:34;
```

Errors

This message generates all of the [Default Errors](#).

DLT-GR303

Name

DLT-GR303: Delete GR303

Description

Category: TDM Services **Security:** Memory Admin - full

This command removes the provisioning for GR-303 interface group.

The delete will be disallowed if subtending facilities are provisioned and/or cross-connects are present on the facility.

Defined by Calix and modeled after DLT-rr in GR-199.

Related Messages:

ALW-Swdx-GR303	ALW-Swdx-T1TG
DLT-CRS-T0	DLT-GR8
DLT-IG-DS1	DLT-T1TG
ED-GR303	ED-GR8
ENT-CRS-T0	ENT-GR303
ENT-GR8	ENT-IG-DS1
ENT-T1TG	INH-Swdx-GR303
INH-Swdx-T1TG	REPT ALM GR303
REPT ALM T1TG	REPT EVT GR303
REPT EVT T1TG	REPT SW GR303
REPT SW T1TG	RTRV-ALM-GR303
RTRV-ALM-T1TG	RTRV-COND-GR303
RTRV-COND-T1TG	RTRV-CRS-T0

[RTRV-DLSTAT-GR303](#)
[RTRV-GR303](#)
[RTRV-IG-DS1](#)
[SW-DX-GR303](#)

[RTRV-DLSTAT-T1TG](#)
[RTRV-GR8](#)
[RTRV-T1TG](#)
[SW-DX-T1TG](#)

Input Format

```
DLT-GR303:[TID]:<IgAid>:[CTAG];
```

Input Parameters

IgAid Interface Group Access Identifier. The address of the GR-303 Interface Group within a shelf.
IgAid is the AID [IgAid](#).

Input Example

```
DLT-GR303:SYS2:N3-4-IG14:323;
```

Errors

This message generates all of the [Default Errors](#).

DLT-GR8

Name

DLT-GR8: Delete GR8

Description

Category: TDM Services **Security:** Memory Admin - by rate

This command removes the provisioning for a GR-8 interface group.

The delete will be disallowed if subtending facilities are provisioned and/or cross-connects are present on the facility.

Defined by Calix

Related Messages:

[ALW-SWDX-GR303](#)

[ALW-SWDX-T1TG](#)

DLT-CRS-T0	DLT-GR303
DLT-IG-DS1	DLT-T1TG
ED-GR303	ED-GR8
ENT-CRS-T0	ENT-GR303
ENT-GR8	ENT-IG-DS1
ENT-T1TG	INH-SWDX-GR303
INH-SWDX-T1TG	REPT ALM GR303
REPT ALM T1TG	REPT EVT GR303
REPT EVT T1TG	REPT SW GR303
REPT SW T1TG	RTRV-ALM-GR303
RTRV-ALM-T1TG	RTRV-COND-GR303
RTRV-COND-T1TG	RTRV-CRS-T0
RTRV-DLSTAT-GR303	RTRV-DLSTAT-T1TG
RTRV-GR303	RTRV-GR8
RTRV-IG-DS1	RTRV-T1TG
SW-DX-GR303	SW-DX-T1TG

Input Format

```
DLT-GR8:[TID]:<SlotIgAid>:[CTAG];
```

Input Parameters

SlotIgAid GR-8 Interface Group Access Identifier. This is the address of the GR-8 Interface Group which is being deleted. *SlotIgAid* is the AID [SlotIgAid](#).

Input Example

```
DLT-GR8::N1-1-4-IG1:46;
```

Errors

This message generates all of the [Default Errors](#).

DLT-H248

Name

DLT-H248: Delete H248

Description

Category: VOIP

Security: Memory Admin - by rate

This command removes the provisioning for an H.248 interface group.

The delete will be disallowed if subtending facilities are provisioned and/or H248CTRL cross-connects are present.

Defined by Calix

Related Messages:

[DLT-IG-VSP](#)

[ED-H248](#)

[ENT-H248](#)

[ENT-VSP](#)

[RTRV-ALM-H248](#)

[RTRV-H248](#)

[RTRV-VSP](#)

[DLT-VSP](#)

[ED-VSP](#)

[ENT-IG-VSP](#)

[REPT ALM H248](#)

[RTRV-COND-H248](#)

[RTRV-IG-VSP](#)

Input Format

```
DLT-H248:[TID]:<IgAid>:[CTAG];
```

Input Parameters

IgAid H.248 Interface Group Access Identifier. This is the address of the H.248 Interface Group which is being deleted. *IgAid* is the AID [IgAid](#).

Input Example

```
DLT-H248:SYS:N3-2-IG1:238;
```

Errors

This message generates all of the [Default Errors](#).

DLT-HDSL

Name

DLT-HDSL: Delete High bit rate Digital Subscriber Line

Description

Category: HDSL Facility **Security:** Memory Admin - by rate

This command removes the provisioning for an HDSL port from the database. If a HDSL card exists in the slot, then it will automatically assign the port with the default values.

An HDSL port can only be deleted if it does not support other entities (i.e. GR303 IGDS1 association, T1 cross-connect).

Defined by GR-199.

Related Messages:

[DLT-GOS-HDSL](#)

[ED-HDSL](#)

[ENT-HDSL](#)

[INIT-REG-HDSL](#)

[REPT ALM HDSL](#)

[REPT RMV HDSL](#)

[RLS-LPBK-HDSL](#)

[RST-HDSL](#)

[RTRV-COND-HDSL](#)

[RTRV-GOS-HDSL](#)

[RTRV-HTU](#)

[ED-GOS-HDSL](#)

[ENT-GOS-HDSL](#)

[INIT-HDSL](#)

[OPR-LPBK-HDSL](#)

[REPT EVT HDSL](#)

[REPT RST HDSL](#)

[RMV-HDSL](#)

[RTRV-ALM-HDSL](#)

[RTRV-CSTAT-HDSL](#)

[RTRV-HDSL](#)

[RTRV-PM-HDSL](#)

Input Format

```
DLT-HDSL:[TID]:<Hds1Aid>:[CTAG];
```

Input Parameters

Hds1Aid HDSL Access Identifier. The access identifier for the HDSL port being deleted. *Hds1Aid* is the AID [SixPortLuRngAid](#) and is listable and rangeable.

Input Example

```
DLT-HDSL:SYS2:N3-1-4-12:98;
```

Errors

This message generates all of the [Default Errors](#).

DLT-IG-CRV

Name

DLT-IG-CRV: Delete Interface Group Call Reference Value

Description

Category: Deprecated **Security:** Memory Admin - by rate

This command is present for compatibility with previous releases of the C7 TL1 interface. The DLT-CRS-T0 command should now be used to remove the call reference value provisioning for of a subscriber line which was cross-connected to a GR-303 interface group (IG).

Defined by Calix and modeled after DLT-rr in GR-199.

Related Messages:

[ENT-IG-CRV](#)

[RTRV-IG-CRV](#)

Input Format

```
DLT-IG-CRV:[TID]:<CrVAid>:[CTAG]::[<PLOCN>];
```

Input Parameters

CrVAid Call Reference Value Access Identifier. The address of the call reference value within a GR-303 interface group. *CrVAid* is the AID [CrVAid](#).

PLOCN Physical Location. The physical location of the subscriber line associated with the Call Reference Value within the C7 network. This parameter only needs to be entered if there is an inconsistency in the database at either the IG shelf or the CRV shelf. *PLOCN* is the AID [T0CrVAid](#).

Input Example

```
DLT-IG-CRV:SYS3:N3-1-IG3-3:342::N3-4-3-1;
```

Errors

This message generates all of the [Default Errors](#).

DLT-IG-CSHELF

Name

DLT-IG-CSHELF: Delete Interface Group Concentration Shelf

Description

Category: TDM Services **Security:** Memory Admin - by rate

This command is used to remove an association between an Interface Group (GR303, T1TG RDT, or H248) and a subscriber shelf.

Input Format

```
DLT-IG-CSHELF : [ TID ] : < IgAid > : [ CTAG ] : : < SHELF > : [ INCL=< INCL> ] ;
```

Input Parameters

IgAid The Interface Group AID. *IgAid* is the AID [IgAid](#).

SHELF The associated subscriber shelf. *SHELF* is the AID [ShelfAid](#).

INCL Force flag. If the specified Shelf is not reachable, INCL=Y is required to force the deletion. *INCL* is of type [BoolYN](#). The default value is "N".

Input Example

```
DLT-IG-CSHELF : SYS1 : N1-4-IG2 : CTAG : : N3-2 : INCL=N ;
```

Errors

This message generates all of the [Default Errors](#).

DLT-IG-DS1

Name

DLT-IG-DS1: Delete Interface Group DS1

Description

Category: TDM Services**Security:** Memory Admin - by rate

This command removes the association of a physical DS1 to a logical DS1 assigned within a GR-303, GR-8, or T1TG interface group. The last DS1 may not be removed if any CRVs are still associated with the interface group.

Defined by Calix and modeled after DLT-rr in GR-199.

Related Messages:[ALW-Swdx-GR303](#)[ALW-Swdx-T1TG](#)[DLT-CRS-T0](#)[DLT-GR303](#)[DLT-GR8](#)[DLT-T1TG](#)[ED-GR303](#)[ED-GR8](#)[ENT-CRS-T0](#)[ENT-GR303](#)[ENT-GR8](#)[ENT-IG-DS1](#)[ENT-T1TG](#)[INH-Swdx-GR303](#)[REPT ALM T1TG](#)[REPT EVT GR303](#)[REPT EVT T1TG](#)[REPT SW GR303](#)[REPT SW T1TG](#)[RTRV-ALM-GR303](#)[RTRV-ALM-T1TG](#)[RTRV-COND-GR303](#)[RTRV-COND-T1TG](#)[RTRV-CRS-T0](#)[RTRV-DLSTAT-GR303](#)[RTRV-DLSTAT-T1TG](#)[RTRV-GR303](#)[RTRV-GR8](#)[RTRV-IG-DS1](#)[RTRV-T1TG](#)[SW-DX-GR303](#)[SW-DX-T1TG](#)**Input Format**

DLT-IG-DS1:[TID]:<IgDs1Aid>:[CTAG]::[<PLOCN>],[<CMDMODE>];

Input Parameters

IgDs1Aid	Interface Group Digital Signal 1 (DS1) Access Identifier. The address of the DS1 within an interface group. <i>IgDs1Aid</i> is the AID IgDs1Aid .
PLOCN	Physical Location. The physical location of the DS1 port associated with the IG. This parameter only needs to be entered if there is an inconsistency in the database at the IG shelf. <i>PLOCN</i> is the AID SixPortLuAid .
CMDMODE	Command Mode. This parameter should only be used when there is an inconsistency in the database and the IG shelf is not currently reachable. This parameter will allow the database on the reachable end to be modified without the other end being modified. <i>CMDMODE</i> is of type CommandMode .

Input Example

DLT-IG-DS1:SYS3:N3-1-IG3-3:342::N3-4-3-1,FRCD;
--

Errors

This message generates all of the [Default Errors](#).

DLT-IG-VDS1

Name

DLT-IG-VDS1: Delete Interface Group VDS1

Description

Category: TDM Services **Security:** Memory Admin - by rate

This command removes the association of a VDS1 ("virtual DS1") to a logical DS1 assigned within a Voice Concentration Group. The last VDS1 may not be removed if any cross-connects are still associated with the interface group.

Defined by Calix and modeled after DLT-rr in GR-199.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-ONT	DLT-PROF-ONT
DLT-RFVID	DLT-VCG
DLT-VRP	ED-AVO
ED-GOS-ONT	ED-ONT
ED-PROF-ONT	ED-RFVID
ED-VCG	ED-VRP
ENT-AVO	ENT-GOS-ONT
ENT-IG-VDS1	ENT-ONT
ENT-PROF-ONT	ENT-RFVID
ENT-VCG	ENT-VRP
INIT-ONT-UA	INIT-REG-ONT
REPT ALM AVO	REPT ALM ONT
REPT ALM RFVID	REPT ALM VCG
REPT ALM VRP	REPT EVT ONT
REPT RMV AVO	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID

RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
DLT-IG-VDS1:[TID]:<IgDs1Aid>:[CTAG]::[<PLOCN>],[<CMDMODE>];
```

Input Parameters

- IgDs1Aid** The address of the logical DS1 within a VCG interface group. *IgDs1Aid* is the AID [IgDs1Aid](#).
- PLOCN** Physical Location. The "physical location" of the virtual DS1 port associated with the IG. This parameter only needs to be entered if there is an inconsistency in the database at the IG shelf. *PLOCN* is the AID [Vds1Aid](#).
- CMDMODE** Command Mode. This parameter should only be used when there is an inconsistency in the database and the IG shelf is not currently reachable. This parameter will allow the database on the reachable end to be modified without the other end being modified. *CMDMODE* is of type [CommandMode](#).

Input Example

```
DLT-IG-VDS1:SYS:N1-2-IG3-1:568::N1-2-7-V1,FRCD;
```

Errors

This message generates all of the [Default Errors](#).

Name

DLT-IG-VSP: Delete Interface Group Voice Signal Processor

Description

Category: TDM Services **Security:** Memory Admin - by rate

This command removes the association of a VSP ("voice signaling processor") to a logical VSP assigned within a H.248 interface group. The last VSP may not be removed if any cross-connects are still associated with the interface group.

Defined by Calix and modeled after DLT-rr in GR-199.

Related Messages:

[DLT-H248](#)

[ED-H248](#)

[ENT-H248](#)

[ENT-VSP](#)

[RTRV-ALM-H248](#)

[RTRV-H248](#)

[RTRV-VSP](#)

[DLT-VSP](#)

[ED-VSP](#)

[ENT-IG-VSP](#)

[REPT ALM H248](#)

[RTRV-COND-H248](#)

[RTRV-IG-VSP](#)

Input Format

```
DLT-IG-VSP : [TID] : <IgVspAid> : [CTAG] ;
```

Input Parameters

IgVspAid The address of the logical VSP within a H.248 interface group. *IgVspAid* is the AID [IgVspAid](#).

Input Example

```
DLT-IG-VSP : SYS : N3-2-IG1-1 : 581 ;
```

Errors

This message generates all of the [Default Errors](#).

DLT-IGMP-JOIN

Name

DLT-IGMP-JOIN: Delete IGMP JOIN

Description

Category: IP **Security:** Memory Admin - by rate

DLT-IGMP-JOIN: Delete the VC used to aggregate all EPG channels into a single VC for use by a GE-2p Broadcast Video Ingress.

The VP,VC parameters are used only to delete IGMP Joins created using software releases prior to 5.1. Delete the multicast traffic mapping to VB port (Packet services).

Related Messages:

[DLT-CVIDREG](#)

[DLT-VB](#)

[DLT-VLAN-VBPORT](#)

[DLT-VRPORT](#)

[ED-IGMP](#)

[ED-VB](#)

[ED-VLAN-VBPORT](#)

[ENT-CVIDREG](#)

[ENT-MACHOST](#)

[ENT-VBPORT](#)

[ENT-VR](#)

[REPT ALM VB](#)

[REPT EVT VB](#)

[RTRV-ALM-VB](#)

[RTRV-CVIDREG](#)

[RTRV-IGMP-JOIN](#)

[RTRV-VB](#)

[RTRV-VLAN-VBPORT](#)

[RTRV-VRPORT](#)

[DLT-MACHOST](#)

[DLT-VBPORT](#)

[DLT-VR](#)

[ED-CVIDREG](#)

[ED-MACHOST](#)

[ED-VBPORT](#)

[ED-VR](#)

[ENT-IGMP-JOIN](#)

[ENT-VB](#)

[ENT-VLAN-VBPORT](#)

[ENT-VRPORT](#)

[REPT ALM VR](#)

[REPT EVT VR](#)

[RTRV-ALM-VR](#)

[RTRV-IGMP](#)

[RTRV-MACHOST](#)

[RTRV-VBPORT](#)

[RTRV-VR](#)

Input Format

```
DLT-IGMP-
JOIN: [TID]:<IP>:[CTAG]:::IRCAID=<IRCAID>, [[VP=<VP>, ][VC=<VC>, ]
[L2IFAID=<L2IFAID>]];
```

Input Parameters

IP IP address of the EPG channel or Multicast IP address for video. *IP* is the AID [IpAid](#) and is

listable.

IRCAID IRCAid - address of the IRC slot *IRCAID* is the AID [SlotLuAid](#).

VP VP - VPI number of the single VC used to aggregate all the EPG channels. *VP* is of type [VPRange](#).

VC VCI number of the singel VC used to aggregate all the EPG channels. *VC* is of type [VCRange](#).

L2IFAIID *L2IFAIID* is the AID [VbPortAid](#).

Input Example

```
DLT-IGMP-JOIN:SYS1:192.168.1.1:5:::IRCAID=N1-1-
1,VP=2000,VC=30000,
L2IFAIID=N1-1-VB3-4;
```

Errors

This message generates all of the [Default Errors](#).

DLT-IMA

Name

DLT-IMA: Delete IMA

Description

Category: IMA Group **Security:** Memory Admin - by rate

This command deletes provisioning for a new Inverse Multiplexing for ATM (IMA) Interface Group on the specified node.

Related Messages:

[DLT-AP](#)

[DLT-AP-T1](#)

[DLT-GOS-AP](#)

[DLT-GOS-IMA](#)

[DLT-GOS-IMALINK](#)

[DLT-IMA-PORT](#)

[ED-AP](#)

[ED-GOS-AP](#)

[ED-GOS-IMA](#)

[ED-GOS-IMALINK](#)

[ED-IMA](#)

[ENT-AP](#)

[ENT-AP-T1](#)

[ENT-GOS-AP](#)

[ENT-GOS-IMA](#)

[ENT-GOS-IMALINK](#)

[ENT-IMA](#)

[ENT-IMA-PORT](#)

INIT-REG-AP	INIT-REG-IMA
INIT-REG-IMALINK	REPT ALM AP
REPT ALM IMA	REPT ALM IMALINK
REPT EVT AP	REPT EVT IMA
REPT EVT IMALINK	REPT RMV AP
REPT RST AP	RMV-AP
RMV-IMA	RST-AP
RST-IMA	RTRV-ALM-AP
RTRV-ALM-IMA	RTRV-ALM-IMALINK
RTRV-AP	RTRV-COND-AP
RTRV-COND-IMA	RTRV-GOS-AP
RTRV-GOS-IMA	RTRV-GOS-IMALINK
RTRV-IMA	RTRV-PM-AP
RTRV-PM-IMA	RTRV-PM-IMALINK

Input Format

```
DLT-IMA:[TID]:<ImaAid>:[CTAG];
```

Input Parameters

ImaAid IMA AID. This is the address of the IMA Interface Group that is being deleted. The slot number of this AID must be that of the T1 lines which are to be included in the group. *ImaAid* is the AID [ImaGrpAid](#).

Input Example

```
DLT-IMA:SYS1:N3-4-1-IMA4:98;
```

Errors

This message generates all of the [Default Errors](#).

DLT-IMA-PORT

Name

DLT-IMA-PORT: Delete IMA PORT

Description

Category: IMA Group **Security:** Memory Admin - by rate

This command deletes a port from an Inverse Multiplexing for ATM (IMA) Interface Group.

Related Messages:

DLT-AP	DLT-AP-T1
DLT-GOS-AP	DLT-GOS-IMA
DLT-GOS-IMALINK	DLT-IMA
ED-AP	ED-GOS-AP
ED-GOS-IMA	ED-GOS-IMALINK
ED-IMA	ENT-AP
ENT-AP-T1	ENT-GOS-AP
ENT-GOS-IMA	ENT-GOS-IMALINK
ENT-IMA	ENT-IMA-PORT
INIT-REG-AP	INIT-REG-IMA
INIT-REG-IMALINK	REPT ALM AP
REPT ALM IMA	REPT ALM IMALINK
REPT EVT AP	REPT EVT IMA
REPT EVT IMALINK	REPT RMV AP
REPT RST AP	RMV-AP
RMV-IMA	RST-AP
RST-IMA	RTRV-ALM-AP
RTRV-ALM-IMA	RTRV-ALM-IMALINK
RTRV-AP	RTRV-COND-AP
RTRV-COND-IMA	RTRV-GOS-AP
RTRV-GOS-IMA	RTRV-GOS-IMALINK
RTRV-IMA	RTRV-PM-AP
RTRV-PM-IMA	RTRV-PM-IMALINK

Input Format

```
DLT-IMA-PORT:[TID]:<ImaAid>:[CTAG]::<PLOCN>;
```

Input Parameters

ImaAid Ima Aid. This is the address of the IMA Interface Group that is being deleted. The slot number of this AID must be that of a T1 line which is a member of the group. *ImaAid* is the AID [ImaGrpAid](#).

PLOCN Physical LOCatioN of the port. This specifies the location of the T1 port. It must specify the same slot as that of the IMA group. *PLOCN* is the AID [PortId](#).

Input Example

```
DLT-IMA-PORT:SYS1:N3-4-1-IMA4:98::N3-4-1-4;;
```

Errors

This message generates all of the [Default Errors](#).

DLT-IP-HOST

Name

DLT-IP-HOST: Delete IP HOST

Description

Category: IP **Security:** Memory Admin - by rate

This command allows for deleting IP hosts that can have a fixed or dynamic IP address.

Input Format

```
DLT-IP-
HOST:[TID]:<IP>:[CTAG]:::[RTRAID=<RTRAID>,][INCL=<INCL>]];
```

Input Parameters

IP IP Address. The static IP address of the Host to be deleted. *IP* is the AID [IpAid](#).

RTRAID *RTRAID* is the AID [RouterAid](#).

INCL INCLusive. This parameter provides a way for the user to request a forced deletion of a DHCP or ARP entry. Normally DHCP and ARP host entries are created and deleted by the C7 system. *INCL* is of type [BoolYN](#). The default value is "N".

Input Example

```
DLT-IP-HOST:SYS3:1.2.3.4:322:::RTRAID=N1-2-VR3,INCL=N;
```

Errors

This message generates all of the [Default Errors](#).

DLT-IP-IF

Name

DLT-IP-IF: Delete IP IF

Description

Category: IP **Security:** Memory Admin - by rate

Delete an IP InterFace. An interface is "in use" if there is a static route which uses a gateway connected to that interface OR if there is a set top box or PC with an IP address on that interface's network. An IP interface cannot be deleted if there are subscribers/PCs on that network. In order to delete the interface the user would have to remove the subscribers and static routes first.

Related Messages:

[DLT-DHCP-OUI](#)

[DLT-IPIF-PORT](#)

[DLT-VID-CHAN](#)

[DLT-VID-SUB](#)

[DLT-VODCLNT](#)

[DLT-VODFLOW](#)

[DLT-VODSVR](#)

[ED-IPIF-PORT](#)

[ED-VID-SUB](#)

[ED-VODDSTLU](#)

[ENT-IP-IF](#)

[ENT-IPIF-PORT](#)

[ENT-VID-CHAN](#)

[ENT-VID-SUB](#)

[ENT-VODDSTLU](#)

[RTRV-ARP](#)

[RTRV-DHCP-OUI](#)

[RTRV-IP-ROUTE](#)

[RTRV-SUBIF-BINDING](#)

[RTRV-VID-IRCLOC](#)

[RTRV-VID-SVC](#)

[RTRV-VODDSTLU](#)

[RTRV-VODSRCLU](#)

[DLT-IP-ROUTE](#)

[DLT-SUBIF-BINDING](#)

[DLT-VID-IRCLOC](#)

[DLT-VID-SVC](#)

[DLT-VODDSTLU](#)

[DLT-VODSRCLU](#)

[ED-ARP](#)

[ED-VID-CHAN](#)

[ED-VID-SVC](#)

[ENT-DHCP-OUI](#)

[ENT-IP-ROUTE](#)

[ENT-SUBIF-BINDING](#)

[ENT-VID-IRCLOC](#)

[ENT-VID-SVC](#)

[REPT EVT VODFLOW](#)

[RTRV-DHCP-LEASE](#)

[RTRV-IP-IF](#)

[RTRV-IPIF-PORT](#)

[RTRV-VID-CHAN](#)

[RTRV-VID-SUB](#)

[RTRV-VODCLNT](#)

[RTRV-VODFLOW](#)

[RTRV-VODSVR](#)

Input Format

DLT-IP-

```
IF:[TID]:<IP>:[CTAG]:::[L2IFAID=<L2IFAID>,][RTRaid=<RTRaid>,[INCL=<INCL>]];
```

Input Parameters

IP IP address. The IP address may not be all zeros. The IP address anded with the IPMSK may not equal zero. The IP address anded with the compliment of the IPMSK may not be zero *IP* is the AID [IpAid](#).

L2IFAID *L2IFAID* is the AID [IpIfAid](#).

RTRaid RTRaid is required for a virtual router and optional for IRC. *RTRaid* is the AID [RouterAid](#).

INCL *INCL* is of type [BoolYN](#). The default value is "N".

Input Example

```
DLT-IP-IF:SYS1:192.168.1.0:32:::L2IFAID=N1-1-19-PP1,RTRaid=N1-1-VR1,INCL=N;
```

Errors

This message generates all of the [Default Errors](#).

DLT-IP-ROUTE

Name

DLT-IP-ROUTE: Delete IP ROUTE

Description

Category: IP **Security:** Memory Admin - by rate

This command is used to remove a currently provisioned static route, identified by its destination IP address

Related Messages:

[DLT-DHCP-OUI](#)
[DLT-IPIF-PORT](#)
[DLT-VID-CHAN](#)
[DLT-VID-SUB](#)
[DLT-VODCLNT](#)
[DLT-VODFLOW](#)

[DLT-IP-IF](#)
[DLT-SUBIF-BINDING](#)
[DLT-VID-IRCLOC](#)
[DLT-VID-SVC](#)
[DLT-VODSTLU](#)
[DLT-VODSRCLU](#)

DLT-VODSVR	ED-ARP
ED-IPIF-PORT	ED-VID-CHAN
ED-VID-SUB	ED-VID-SVC
ED-VODDSTLU	ENT-DHCP-OUI
ENT-IP-IF	ENT-IP-ROUTE
ENT-IPIF-PORT	ENT-SUBIF-BINDING
ENT-VID-CHAN	ENT-VID-IRCLOC
ENT-VID-SUB	ENT-VID-SVC
ENT-VODDSTLU	REPT EVT VODFLOW
RTRV-ARP	RTRV-DHCP-LEASE
RTRV-DHCP-OUI	RTRV-IP-IF
RTRV-IP-ROUTE	RTRV-IPIF-PORT
RTRV-SUBIF-BINDING	RTRV-VID-CHAN
RTRV-VID-IRCLOC	RTRV-VID-SUB
RTRV-VID-SVC	RTRV-VODCLNT
RTRV-VODDSTLU	RTRV-VODFLOW
RTRV-VODSRCLU	RTRV-VODSVR

Input Format

DLT-IP-ROUTE : [TID] : <IPMASK> : [CTAG] :: : RTRAID=<RTRAID>, [INCL=<INCL>] ;

Input Parameters

IPMASK IP/MASK - Destination subnet IP Address and destination subnet IP address Mask used to define the IP Route. *IPMASK* is the AID [IpMask](#).

RTRAID *RTRAID* is the AID [RouteId1](#).

INCL INCLUSIVE. This parameter provides a way for the user to force delete the default route with INCL=Y. *INCL* is of type [BoolYN](#). The default value is "N".

Input Example

DLT-IP-ROUTE:SYS1:192.168.1.0/24:32:::RTRAID=N1-1-VR1, INCL=N;

Errors

This message generates all of the [Default Errors](#).

DLT-IPIF-PORT

Name

DLT-IPIF-PORT: Delete IPIF PORT

Description

Category: IP **Security:** Memory Admin - by rate

Delete IP Interface Port. This command deletes the association of a lower layer interface to Layer 3.

Related Messages:

[DLT-DHCP-OUI](#)

[DLT-IP-ROUTE](#)

[DLT-VID-CHAN](#)

[DLT-VID-SUB](#)

[DLT-VODCLNT](#)

[DLT-VODFLOW](#)

[DLT-VODSVR](#)

[ED-IPIF-PORT](#)

[ED-VID-SUB](#)

[ED-VODDSTLU](#)

[ENT-IP-IF](#)

[ENT-IPIF-PORT](#)

[ENT-VID-CHAN](#)

[ENT-VID-SUB](#)

[ENT-VODDSTLU](#)

[RTRV-ARP](#)

[RTRV-DHCP-OUI](#)

[RTRV-IP-ROUTE](#)

[RTRV-SUBIF-BINDING](#)

[RTRV-VID-IRCLOC](#)

[RTRV-VID-SVC](#)

[RTRV-VODDSTLU](#)

[RTRV-VODSRCLU](#)

[DLT-IP-IF](#)

[DLT-SUBIF-BINDING](#)

[DLT-VID-IRCLOC](#)

[DLT-VID-SVC](#)

[DLT-VODDSTLU](#)

[DLT-VODSRCLU](#)

[ED-ARP](#)

[ED-VID-CHAN](#)

[ED-VID-SVC](#)

[ENT-DHCP-OUI](#)

[ENT-IP-ROUTE](#)

[ENT-SUBIF-BINDING](#)

[ENT-VID-IRCLOC](#)

[ENT-VID-SVC](#)

[REPT EVT VODFLOW](#)

[RTRV-DHCP-LEASE](#)

[RTRV-IP-IF](#)

[RTRV-IPIF-PORT](#)

[RTRV-VID-CHAN](#)

[RTRV-VID-SUB](#)

[RTRV-VODCLNT](#)

[RTRV-VODFLOW](#)

[RTRV-VODSVR](#)

Input Format

```
DLT-IPIF-
PORT:[TID]:<IP>:[CTAG]:::INTERFACE=<INTERFACE>,RTRAID=<RTRAID>;
```

Input Parameters

- IP** IP address to associate the lower layer interface. *IP* is the AID [IpAid](#).
- INTERFACE** Lower Layer Interface. This can be a Virtual Bridge, Virtual Router VC, VLAN etc. *INTERFACE* is the AID [IpIfPortAid](#).
- RTRaid** Router Access Identifier.- This is the address of the virtual router for the IP interface. *RTRaid* is the AID [VrAid](#).

Input Example

```
DLT-IPIF-PORT:SYS1:192.168.1.0:32:::INTERFACE=N1-1-VB1-
VLAN5,RTRaid=N1-1-VR1;
```

Errors

This message generates all of the [Default Errors](#).

DLT-LSWITCH

Name

DLT-LSWITCH: DLT LSWITCH

Description

Category: Ethernet **Security:** Memory Admin - by rate

This command deletes a Logical Bridge. Note that if the LSwitch being deleted is present in the network, all port associations must first be deleted. If the LSwitch is not present in the network, it will be deleted, despite the fact that port associations may have been present on it.

Related Messages:

[DLT-AGG](#)

[DLT-AGG-ACL](#)

[DLT-AGG-PORT](#)

[DLT-ETH](#)

[DLT-ETH-ACL](#)

[DLT-GOS-ETH](#)

[DLT-LSWITCH-PORT](#)

[DLT-PROF-ETH](#)

[DLT-VLAN](#)

[DLT-VLAN-PORT](#)

[DLT-VLAN-VBPORT](#)

[ED-ETH](#)

[ED-GOS-ETH](#)

[ED-VLAN](#)

[ED-VLAN-PORT](#)

[ED-VLAN-VBPORT](#)

[ENT-AGG](#)

[ENT-AGG-ACL](#)

[ENT-AGG-PORT](#)

[ENT-ETH](#)

[ENT-ETH-ACL](#)

[ENT-GOS-ETH](#)

ENT-LSWITCH	ENT-LSWITCH-PORT
ENT-PROF-ETH	ENT-VLAN
ENT-VLAN-PORT	ENT-VLAN-VBPORT
INIT-LSWITCH	INIT-STAT-ETH
REPT ALM ETH	REPT EVT ETH
REPT RMV ETH	REPT RST ETH
RMV-ETH	RST-ETH
RTRV-AGG	RTRV-AGG-ACL
RTRV-AGG-PORT	RTRV-ALM-ETH
RTRV-COND-ETH	RTRV-ETH
RTRV-ETH-ACL	RTRV-GOS-ETH
RTRV-LSWITCH	RTRV-LSWITCH-PORT
RTRV-PM-ETH	RTRV-PROF-ETH
RTRV-STAT-ETH	RTRV-VLAN
RTRV-VLAN-PORT	RTRV-VLAN-VBPORT

Input Format

DLT-LSWITCH:[TID]:<LSwitchAid>:[CTAG];

Input Parameters

LSwitchAid Logical Switch Access Identifier. *LSwitchAid* is the AID [LSwitchAid](#).

Input Example

DLT-LSWITCH:SYS1:N1-2-XLAN10:345;

Errors

This message generates all of the [Default Errors](#).

DLT-LSWITCH-PORT

Name

DLT-LSWITCH-PORT: Delete LSWITCH PORT

Description

Category: Ethernet**Security:** Memory Admin - by rate

This command deletes a port from a Logical Bridge.

Related Messages:

[DLT-AGG](#)[DLT-AGG-PORT](#)[DLT-ETH-ACL](#)[DLT-LSWITCH](#)[DLT-VLAN](#)[DLT-VLAN-VBPORT](#)[ED-GOS-ETH](#)[ED-VLAN-PORT](#)[ENT-AGG](#)[ENT-AGG-PORT](#)[ENT-ETH-ACL](#)[ENT-LSWITCH](#)[ENT-PROF-ETH](#)[ENT-VLAN-PORT](#)[INIT-LSWITCH](#)[REPT ALM ETH](#)[REPT RMV ETH](#)[RMV-ETH](#)[RTRV-AGG](#)[RTRV-AGG-PORT](#)[RTRV-COND-ETH](#)[RTRV-ETH-ACL](#)[RTRV-LSWITCH](#)[RTRV-PM-ETH](#)[RTRV-STAT-ETH](#)[RTRV-VLAN-PORT](#)[DLT-AGG-ACL](#)[DLT-ETH](#)[DLT-GOS-ETH](#)[DLT-PROF-ETH](#)[DLT-VLAN-PORT](#)[ED-ETH](#)[ED-VLAN](#)[ED-VLAN-VBPORT](#)[ENT-AGG-ACL](#)[ENT-ETH](#)[ENT-GOS-ETH](#)[ENT-LSWITCH-PORT](#)[ENT-VLAN](#)[ENT-VLAN-VBPORT](#)[INIT-STAT-ETH](#)[REPT EVT ETH](#)[REPT RST ETH](#)[RST-ETH](#)[RTRV-AGG-ACL](#)[RTRV-ALM-ETH](#)[RTRV-ETH](#)[RTRV-GOS-ETH](#)[RTRV-LSWITCH-PORT](#)[RTRV-PROF-ETH](#)[RTRV-VLAN](#)[RTRV-VLAN-VBPORT](#)

Input Format

DLT-LSWITCH-PORT:[TID]:<LSwitchPortAid>:[CTAG];

Input Parameters

LSwitchPortAid Logical Switch Port Access Identifier. *LSwitchPortAid* is the AID [LSwitchPortAid](#).

Input Example

DLT-LSWITCH-PORT:SYS1:N1-2-XLAN10-50:345;

Errors

This message generates all of the [Default Errors](#).

DLT-MACHOST

Name

DLT-MACHOST: Delete MACHOST

Description

Category: IP **Security:** Memory Admin - by rate

Not supported in release 6.0.

Related Messages:

DLT-CVIDREG	DLT-IGMP-JOIN
DLT-VB	DLT-VBPORT
DLT-VLAN-VBPORT	DLT-VR
DLT-VRPORT	ED-CVIDREG
ED-IGMP	ED-MACHOST
ED-VB	ED-VBPORT
ED-VLAN-VBPORT	ED-VR
ENT-CVIDREG	ENT-IGMP-JOIN
ENT-MACHOST	ENT-VB
ENT-VBPORT	ENT-VLAN-VBPORT
ENT-VR	ENT-VRPORT
REPT ALM VB	REPT ALM VR
REPT EVT VB	REPT EVT VR
RTRV-ALM-VB	RTRV-ALM-VR
RTRV-CVIDREG	RTRV-IGMP
RTRV-IGMP-JOIN	RTRV-MACHOST
RTRV-VB	RTRV-VBPORT
RTRV-VLAN-VBPORT	RTRV-VR
RTRV-VRPORT	

Input Format

DLT- MACHOST:[TID]:<MACAID>:[CTAG]:::VLAN=<VLAN>, [L2IFAID=<L2IFAID>];

Input Parameters

MACAID *MACAID* is the AID [MacRngAid](#).

VLAN *VLAN* is the AID [PacketVlanAid](#).

L2IFAIID *L2IFAIID* is the AID [VbPortAid](#).

Input Example

```
DLT-MACHOST:SYS:01-23-45-67-89-AB:123:::VLAN=N1-1-VB2-VLAN3,
L2IFAIID=N1-1-VB2-5;
```

Errors

This message generates all of the [Default Errors](#).

DLT-NODE

Name

DLT-NODE: Delete NODE

Description

Category: System **Security:** System Administration

This command is used to remove the specified node from the system database. The node's SID, Node Amp, all Test Groups for the node, graphical coordinates of the node, and the ACO mode for the node will be deleted for the node when the command is executed.

Related Messages:

[ALW-STBY-UPGRD](#)
[ED-DAT](#)
[ED-SHELF](#)
[ED-SYS-SECU](#)
[ENT-SHELF](#)
[INIT-SYS](#)
[REPT ALM SHELF](#)
[REPT EVT SHELF](#)
[RTRV-BAR](#)

[DLT-ALM-SHELF](#)
[ED-NODE](#)
[ED-SYS](#)
[ENT-NODE](#)
[INH-STBY-UPGRD](#)
[OPR-BAR](#)
[REPT EVT MEM](#)
[RTRV-ALM-SHELF](#)
[RTRV-COND-SHELF](#)

[RTRV-HDR](#)
[RTRV-NODE](#)
[RTRV-SYS](#)

[RTRV-NETYPE](#)
[RTRV-SHELF](#)
[RTRV-SYS-SECU](#)

Input Format

```
DLT-NODE:[TID]:<NodeAid>:[CTAG];
```

Input Parameters

NodeAid The AID of the node to be deleted. *NodeAid* is the AID [NodeAid](#).

Input Example

```
DLT-NODE::N4:123;
```

Errors

This message generates all of the [Default Errors](#).

DLT-ONT

Name

DLT-ONT: Delete ONT

Description

Category: PON **Security:** Memory Admin - by rate

This command is used to remove the specified ONT from the system database.

Related Messages:

[DLT-AVO](#)
[DLT-IG-VDS1](#)
[DLT-RFVID](#)
[DLT-VRP](#)
[ED-GOS-ONT](#)
[ED-PROF-ONT](#)
[ED-VCG](#)

[DLT-GOS-ONT](#)
[DLT-PROF-ONT](#)
[DLT-VCG](#)
[ED-AVO](#)
[ED-ONT](#)
[ED-RFVID](#)
[ED-VRP](#)

ENT-AVO	ENT-GOS-ONT
ENT-IG-VDS1	ENT-ONT
ENT-PROF-ONT	ENT-RFVID
ENT-VCG	ENT-VRP
INIT-ONT-UA	INIT-REG-ONT
REPT ALM AVO	REPT ALM ONT
REPT ALM RFVID	REPT ALM VCG
REPT ALM VRP	REPT EVT ONT
REPT RMV AVO	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

DLT-ONT:[TID]:<OntAid>:[CTAG];

Input Parameters

OntAid The AID of the ONT being deleted. *OntAid* is the AID [OntAid](#).

Input Example

DLT-ONT:SYS:N2-3-12-1-22:432;

Errors

This message generates all of the [Default Errors](#).

DLT-PON

Name

DLT-PON: Delete Passive Optical Network

Description

Category: PON **Security:** Memory Admin - by rate

This command removes the provisioning for a PON port from the database.

Input Format

```
DLT-PON:[TID]:<PonAid>:[CTAG];
```

Input Parameters

PonAid The PON Port Access Identifier. *PonAid* is the AID [FourPortLuRngAid](#) and is listable and rangeable.

Input Example

```
DLT-PON:SYS:N2-3-12-1:67;
```

Errors

This message generates all of the [Default Errors](#).

DLT-PP

Name

DLT-PP: Delete Pseudo Port

Description

Category: Virtual Facility **Security:** Memory Admin - by rate

This command deletes a PseudoPort from the database. This can be used only for deletion of PP2 on an OLTB-2, for equipment conversion to OLTG-4. (Not supported in release 5.1)

Related Messages:

ACT-PROTN-VC	ACT-PROTN-VP
DLT-CRS-VC	DLT-CRS-VP
DLT-PROF-TRF	ED-CRS-VC
ED-CRS-VP	ED-PROF-TRF
ENT-CRS-VC	ENT-CRS-VP
ENT-PP	ENT-PROF-TRF
INIT-CSTAT-VC	INIT-CSTAT-VP
INJ-LPBK-VC	INJ-LPBK-VP
MV-CRS-VC	MV-CRS-VP
OPR-CC-VC	OPR-CC-VP
REPT ALM PP	REPT EVT PP
REPT EVT VC	REPT EVT VP
REPT RMV PP	REPT RST PP
RLS-CC-VC	RLS-CC-VP
RMV-PP	RST-PP
RTRV-ALM-PP	RTRV-COND-PP
RTRV-CRS-VC	RTRV-CRS-VP
RTRV-CSTAT-VC	RTRV-CSTAT-VP
RTRV-PP	RTRV-PROF-TRF
RTRV-VTI	

Input Format

```
DLT-PP:[TID]:<PpAid>:[CTAG];
```

Input Parameters

PpAid The PseudoPort AID. *PpAid* is the AID [PpAid](#).

Input Example

```
DLT-PP:SYS1:N1-2-3-PP1:556;
```

Errors

This message generates all of the [Default Errors](#).

DLT-PPPOEAC

Name

DLT-PPPOEAC: Delete PPPOEAC

Description

Category: PPPOE **Security:** Memory Admin - by rate

The Access Concentrator is a device upstream from the subscriber that terminates a PPPoE connection. The PPPoE Relay Agent learns of the location and address of Access Concentrators from the PPPoE Discovery packets that it intercepts and stores it in a data structure in RAM. This command deletes a PPPoE access concentrator information from RAM.

Input Format

```
DLT-PPPOEAC : [ TID ] : <MAC> : [ CTAG ] :: : VBAID=<VBAID> , [ VLAN=<VLAN> ] ;
```

Input Parameters

MAC MAC Address : This is the Ethernet Address of the AC as learned from the PPPoE Discovery packet *MAC* is the AID [MacAid](#) and is listable.

VBAID This parameter is used to specify the target of the command. *VBAID* is the AID [VbAid](#).

VLAN The request may be filtered to a specific VLAN. *VLAN* is the AID [PacketVlanAid](#).

Input Example

```
DLT-PPPOEAC : SYS : 01-23-45-67-89-AB : 432 :: : VBAID=N3-2-VB1 , VLAN=N3-2-VB1-VLAN2 ;
```

Errors

This message generates all of the [Default Errors](#).

DLT-PPPOEHOST

Name

DLT-PPPOEHOST: Delete PPPOEHOST

Description

Category: PPPOE **Security:** Memory Admin - by rate

The PPPoE Subscriber Host is the CPE device for the subscriber. It terminates the "host" end of the PPPoE connection. The PPPoE Relay Agent learns of the location and address of the Host from the PPPoE Discovery packets that it intercepts. The PPPoE Relay Agent stores information about Hosts in a RAM-based data structure. There will be a command to retrieve information about Hosts and also a command to delete them from the RAM-based data structure

Input Format

```
DLT-
PPPOEHOST:[TID]:<MACAID>:[CTAG]:::VBAID=<VBAID>, [[L2IFAID=<L2IFAID>, ]
[INCL=<INCL>]];
```

Input Parameters

MACAID This is the Ethernet Address of the Host as learned from the PPPoE Discovery packet
MACAID is the AID [MacAid](#) and is listable.

VBAID Virtual Bridge AID. This parameter is used to specify the target of the command. *VBAID* is the AID [VbAid](#).

L2IFAID Layer 2 Interface Access Identifier - This can be one of the following : - subscriber port on which this Host was discovered OR - AID of the remote endpoint (on an access LU card) of the subscriber VC. L2ifAid is required parameter for PPPOA and optional for PPPOE.
L2IFAID is the AID [PppoehostId](#).

INCL This is an input parameter to the delete command. It determines whether any open sessions should be terminated (sent a PADT packet) before deleting the AC record. INCL=Y : any active session is terminated before the Host Record is deleted. INCL=N: the Host Record will not be deleted if there is an active session. Session termination entails sending a PADT packet to both the AC and the Host, and removing all associated fast-path forwarding entries from the Network Processing subsystem. *INCL* is of type [BoolYN](#).

Input Example

```
DLT-PPPOEHOST:SYS:01-23-45-67-89-AB:432:::VBAID=N1-1-VB1,
L2IFAID=N1-1-1-1-CH0-VP0-VC101,INCL=Y;
```

Errors

This message generates all of the [Default Errors](#).

Name

DLT-PROF-ETH: DLT PROF ETH

Description

Category: Ethernet

Security: System Administration

Delete Profile - Ethernet.

Used for deleting traffic profiles for Ethernet.

If the profile is in use on any VLAN on any port in the C7 network, the command will be rejected.

Related Messages:

[DLT-AGG](#)
[DLT-AGG-PORT](#)
[DLT-ETH-ACL](#)
[DLT-LSWITCH](#)
[DLT-VLAN](#)
[DLT-VLAN-VBPORT](#)
[ED-GOS-ETH](#)
[ED-VLAN-PORT](#)
[ENT-AGG](#)
[ENT-AGG-PORT](#)
[ENT-ETH-ACL](#)
[ENT-LSWITCH](#)
[ENT-PROF-ETH](#)
[ENT-VLAN-PORT](#)
[INIT-LSWITCH](#)
[REPT ALM ETH](#)
[REPT RMV ETH](#)
[RMV-ETH](#)
[RTRV-AGG](#)
[RTRV-AGG-PORT](#)
[RTRV-COND-ETH](#)
[RTRV-ETH-ACL](#)
[RTRV-LSWITCH](#)
[RTRV-PM-ETH](#)
[RTRV-STAT-ETH](#)
[RTRV-VLAN-PORT](#)

[DLT-AGG-ACL](#)
[DLT-ETH](#)
[DLT-GOS-ETH](#)
[DLT-LSWITCH-PORT](#)
[DLT-VLAN-PORT](#)
[ED-ETH](#)
[ED-VLAN](#)
[ED-VLAN-VBPORT](#)
[ENT-AGG-ACL](#)
[ENT-ETH](#)
[ENT-GOS-ETH](#)
[ENT-LSWITCH-PORT](#)
[ENT-VLAN](#)
[ENT-VLAN-VBPORT](#)
[INIT-STAT-ETH](#)
[REPT EVT ETH](#)
[REPT RST ETH](#)
[RST-ETH](#)
[RTRV-AGG-ACL](#)
[RTRV-ALM-ETH](#)
[RTRV-ETH](#)
[RTRV-GOS-ETH](#)
[RTRV-LSWITCH-PORT](#)
[RTRV-PROF-ETH](#)
[RTRV-VLAN](#)
[RTRV-VLAN-VBPORT](#)

Input Format

DLT-PROF-ETH:[TID]:<EthProfAid>:[CTAG];

Input Parameters

EthProfAid Ethernet Profile Number. *EthProfAid* is the AID [EthProfAid](#).

Input Example

```
DLT-PROF-ETH::5:223;
```

Errors

This message generates all of the [Default Errors](#).

DLT-PROF-IKE

Name

DLT-PROF-IKE: Delete Profile IKE

Description

Category: TDM Services **Security:** System Administration

No Comment Defined.

Input Format

```
DLT-PROF-IKE:[TID]:<IkeProfAid>:[CTAG];
```

Input Parameters

IkeProfAid *IkeProfAid* is the AID [IkeProfProvAid](#).

Input Example

```
DLT-PROF-IKE:SYS:4:888;
```

Errors

This message generates all of the [Default Errors](#).

DLT-PROF-ONT

Name

DLT-PROF-ONT: Delete Profile Optical Network Termination

Description

Category: PON **Security:** System Administration

Delete Profile - Optical Network Termination.

A profile cannot be deleted if in use.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-RFVID	DLT-VCG
DLT-VRP	ED-AVO
ED-GOS-ONT	ED-ONT
ED-PROF-ONT	ED-RFVID
ED-VCG	ED-VRP
ENT-AVO	ENT-GOS-ONT
ENT-IG-VDS1	ENT-ONT
ENT-PROF-ONT	ENT-RFVID
ENT-VCG	ENT-VRP
INIT-ONT-UA	INIT-REG-ONT
REPT ALM AVO	REPT ALM ONT
REPT ALM RFVID	REPT ALM VCG
REPT ALM VRP	REPT EVT ONT
REPT RMV AVO	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG

RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
DLT-PROF-ONT:[TID]:<OntProfAid>:[CTAG];
```

Input Parameters

OntProfAid ONT profile number. *OntProfAid* is the AID [OntProfAid](#).

Input Example

```
DLT-PROF-ONT:SYS:2:124;
```

Errors

This message generates all of the [Default Errors](#).

DLT-PROF-TRF

Name

DLT-PROF-TRF: Delete PROF TRF

Description

Category: Virtual Facility **Security:** System Administration

This command deletes the specified Traffic Profile.

If the Traffic Profile is in use by any cross-connect, the request will be rejected.

Defined by Calix and modeled after DLT-rr in GR-199.

Related Messages:

ACT-PROTN-VC	ACT-PROTN-VP
DLT-CRS-VC	DLT-CRS-VP
DLT-PP	ED-CRS-VC
ED-CRS-VP	ED-PROF-TRF
ENT-CRS-VC	ENT-CRS-VP
ENT-PP	ENT-PROF-TRF
INIT-CSTAT-VC	INIT-CSTAT-VP
INJ-LPBK-VC	INJ-LPBK-VP
MV-CRS-VC	MV-CRS-VP
OPR-CC-VC	OPR-CC-VP
REPT ALM PP	REPT EVT PP
REPT EVT VC	REPT EVT VP
REPT RMV PP	REPT RST PP
RLS-CC-VC	RLS-CC-VP
RMV-PP	RST-PP
RTRV-ALM-PP	RTRV-COND-PP
RTRV-CRS-VC	RTRV-CRS-VP
RTRV-CSTAT-VC	RTRV-CSTAT-VP
RTRV-PP	RTRV-PROF-TRF
RTRV-VTI	

Input Format

DLT-PROF-TRF : [TID] : <TrfProfAid> : [CTAG] ;

Input Parameters

TrfProfAid Traffic Profile Access Identifier. The access identifier of the Traffic Profile table entry being deleted. *TrfProfAid* is the AID [AtmTrfProfProvAid](#).

Input Example

DLT-PROF-TRF : SYS3 : 4 : 480 : ;

Errors

This message generates all of the [Default Errors](#).

DLT-RFVID

Name

DLT-RFVID: Delete Rf-Video Port

Description

Category: PON **Security:** Memory Admin - by rate

This command removes the provisioning for an Rf-Video port from the database.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-VCG
DLT-VRP	ED-AVO
ED-GOS-ONT	ED-ONT
ED-PROF-ONT	ED-RFVID
ED-VCG	ED-VRP
ENT-AVO	ENT-GOS-ONT
ENT-IG-VDS1	ENT-ONT
ENT-PROF-ONT	ENT-RFVID
ENT-VCG	ENT-VRP
INIT-ONT-UA	INIT-REG-ONT
REPT ALM AVO	REPT ALM ONT
REPT ALM RFVID	REPT ALM VCG
REPT ALM VRP	REPT EVT ONT
REPT RMV AVO	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
DLT-RFVID:[TID]:<OntPortAid>:[CTAG];
```

Input Parameters

OntPortAid Rf-Video Port Access Identifier. The address of the RFVID port being deleted. The port number must be equal to 1. *OntPortAid* is the AID [OntPortRngAid](#).

Input Example

```
DLT-RFVID:SYS:N2-4-6-1-18-1:345;
```

Errors

This message generates all of the [Default Errors](#).

DLT-RMTDEV

Name

DLT-RMTDEV: Delete Remote Device

Description

Category: System **Security:** Memory Admin - by rate

Delete a Remote Device.

Input Format

```
DLT-RMTDEV:[TID]:<RmtDevAid>:[CTAG];
```

Input Parameters

RmtDevAid Remote Device Access Identifier. *RmtDevAid* is the AID [RmtDevAid](#).

Input Example

```
DLT-RMTDEV:SYS3:N1-1-RMT3:342;
```

Errors

This message generates all of the [Default Errors](#).

DLT-SIP

Name

DLT-SIP: Delete Session Initiation Protocol

Description

Category: VOIP **Security:** Maintenance - full

This command removes the provisioning for a SIP interface group.

Input Format

```
DLT-SIP:[TID]:<IgAid>:[CTAG];
```

Input Parameters

IgAid Access Identifier for the SIP Group. *IgAid* is the AID [IgAid](#).

Input Example

```
DLT-SIP:SYS:N1-2-IG3:322;
```

Errors

This message generates all of the [Default Errors](#).

DLT-SIPT0

Name

DLT-SIPT0: Delete SIPT0

Description

Category: VOIP **Security:** Memory Admin - by rate

This command removes the provisioning for a SIP T0.

Input Format

```
DLT-SIPT0:[TID]:<T0Port>:[CTAG];
```

Input Parameters

T0Port *T0Port* is the AID [SipT0PortAid](#).

Input Example

```
DLT-SIPT0:SYS2:N1-5-6-3-1:123;
```

Errors

This message generates all of the [Default Errors](#).

DLT-SIPVCG

Name

DLT-SIPVCG: Delete SIPVCG

Description

Category: VOIP **Security:** Memory Admin - by rate

This command removes the provisioning for a SIP VCG.

Input Format

```
DLT-SIPVCG:[TID]:<IgAid>:[CTAG];
```

Input Parameters

IgAid Ig Number within a shelf. *IgAid* is the AID [IgAid](#).

Input Example

```
DLT-SIPVCG:SYS1:N1-2-IG3:321;
```

Errors

This message generates all of the [Default Errors](#).

DLT-SNMP-ACL

Name

DLT-SNMP-ACL: Delete SNMP ACL

Description

Category: Management Interface **Security:** Memory Admin - by rate

Deletes an SNMP Access Control List entry.

If a IP Address is included as an input parameter, only that specific address is removed from the list. The rest of the list is still active.

An Address Control List consists of up to 10 source address/mask pairs.

Defined by Calix.

Input Format

```
DLT-SNMP-ACL:[TID]:::[CTAG]:::IP=<IP>,IPMSK=<IPMSK>;
```

Input Parameters

IP IP Address. The IP address of the SNMP manager that is allowed to make requests to the C7 network. *IP* is the AID [IpAid](#).

IPMSK IP Address Mask. The mask to apply to the IP address, allowing for a range of IP addresses to be considered. *IPMSK* is the AID [IpAid](#).

Input Example

DLT-SNMP-ACL:SYS1::23:::IP=192.168.1.0,IPMSK=255.255.255.0;

Errors

This message generates all of the [Default Errors](#).

DLT-SUBIF-BINDING

Name

DLT-SUBIF-BINDING: Delete SUBIF BINDING

Description

Category: Video **Security:** Memory Admin - by rate

Delete Sub-Interface Binding: delete the subscriber location scope assigned to a L3 interface address.

Related Messages:

[DLT-DHCP-OUI](#)

[DLT-IP-IF](#)

[DLT-IP-ROUTE](#)

[DLT-IPIF-PORT](#)

[DLT-VID-CHAN](#)

[DLT-VID-IRCLOC](#)

[DLT-VID-SUB](#)

[DLT-VID-SVC](#)

[DLT-VODCLNT](#)

[DLT-VODDSTLU](#)

[DLT-VODFLOW](#)

[DLT-VODSRCLU](#)

[DLT-VODSVR](#)

[ED-ARP](#)

[ED-IPIF-PORT](#)

[ED-VID-CHAN](#)

[ED-VID-SUB](#)

[ED-VID-SVC](#)

[ED-VODDSTLU](#)

[ENT-DHCP-OUI](#)

[ENT-IP-IF](#)

[ENT-IP-ROUTE](#)

[ENT-IPIF-PORT](#)

[ENT-SUBIF-BINDING](#)

[ENT-VID-CHAN](#)

[ENT-VID-IRCLOC](#)

[ENT-VID-SUB](#)

[ENT-VID-SVC](#)

[ENT-VODDSTLU](#)

[REPT EVT VODFLOW](#)

[RTRV-ARP](#)

[RTRV-DHCP-LEASE](#)

[RTRV-DHCP-OUI](#)

[RTRV-IP-IF](#)

[RTRV-IP-ROUTE](#)

[RTRV-IPIF-PORT](#)

[RTRV-SUBIF-BINDING](#)

[RTRV-VID-CHAN](#)

[RTRV-VID-IRCLOC](#)

[RTRV-VID-SUB](#)

[RTRV-VID-SVC](#)

[RTRV-VODCLNT](#)

[RTRV-VODDSTLU](#)
[RTRV-VODSRCLU](#)

[RTRV-VODFLOW](#)
[RTRV-VODSVR](#)

Input Format

```
DLT-SUBIF-
BINDING:[TID]:<PHYSLOC>:[CTAG]:::RTRAID=<RTRAID>,IP=<IP>;
```

Input Parameters

PHYSLOC *PHYSLOC* is the AID [SubIfBindingAid](#).

RTRAID *RTRAID* is the AID [SlotLuAid](#).

IP *IP* is the AID [IpAid](#).

Input Example

```
DLT-SUBIF-BINDING:SYS1:N1-2-3:CTAG:::RTRAID=N1-1-
VR1,IP=192.168.1.2;
```

Errors

This message generates all of the [Default Errors](#).

DLT-T0

Name

DLT-T0: Delete Digital Signal Zero

Description

Category: DS0 Facility **Security:** Memory Admin - by rate

This command disconnects a T0 entity from the database. A T0 entity can only be deleted if it is not part of cross-connect and if the T0 is not redlined.

The delete will be disallowed if subtending facilities are provisioned and/or cross-connects are present on the facility.

Defined by GR-199.

Related Messages:

DLT-CRS-T0	ED-T0
ENT-CRS-T0	ENT-T0
REPT ALM T0	REPT EVT T0
REPT RMV T0	REPT RST T0
RMV-T0	RST-T0
RTRV-ALM-T0	RTRV-COND-T0
RTRV-CRS-T0	RTRV-CSTAT-T0
RTRV-T0	

Input Format

```
DLT-T0:[ TID ]:<T0Aid>:[ CTAG ]:::[ INCL=<INCL> ] ;
```

Input Parameters

T0Aid T0 Access Identifier. The access identifier for the T0 port being deleted. *T0Aid* is the AID [TwentyFourPortLuRngAid](#) and is listable and rangeable.

INCL INCLusive. This parameter provides a way for the user to request a forced deletion of a port even if it is in the RDLD state. *INCL* is of type [BoolYN](#).

Input Example

```
DLT-T0:SYS2:N3-5-6-24:901:::INCL=Y;
```

Errors

This message generates all of the [Default Errors](#).

DLT-T1

Name

DLT-T1: Delete Digital Signal One

Description

Category: DS1 Facility **Security:** Memory Admin - by rate

This command removes the provisioning for a T1 port from the database.

A T1 port can only be deleted if it does not support other entities (i.e. T0 port, T1 cross-connect).

Defined by GR-199.

Related Messages:

DLT-AP-T1	DLT-CRS-T1
DLT-GOS-T1	ED-GOS-T1
ED-T1	ENT-AP-T1
ENT-CRS-T1	ENT-GOS-T1
ENT-T1	INIT-REG-T1
OPR-LPBK-T1	REPT ALM T1
REPT EVT T1	REPT RMV T1
REPT RST T1	RLS-LPBK-T1
RMV-T1	RST-T1
RTRV-ALM-T1	RTRV-COND-T1
RTRV-CRS-T1	RTRV-GOS-T1
RTRV-PM-T1	RTRV-T1

Input Format

```
DLT-T1:[ TID ]:<Ds1Aid>:[ CTAG ] ;
```

Input Parameters

Ds1Aid T1 Access Identifier. The access identifier for the T1 port being deleted. *Ds1Aid* is the AID [TwelvePortLuRngAid](#) and is listable and rangeable.

Input Example

```
DLT-T1:SYS2:N3-1-4-12:98 ;
```

Errors

This message generates all of the [Default Errors](#).

DLT-T1TG

Name

DLT-T1TG: Delete T1 Transport Group

Description

Category: TDM Services

Security: Memory Admin - by rate

Command to delete an internal T1 transport interface group.

The delete will be disallowed if subtending facilities are provisioned and/or cross-connects are present on the facility.

Defined by Calix.

Related Messages:

[ALW-Swdx-GR303](#)

[DLT-CRS-T0](#)

[DLT-GR8](#)

[ED-GR303](#)

[ENT-CRS-T0](#)

[ENT-GR8](#)

[ENT-T1TG](#)

[INH-Swdx-T1TG](#)

[REPT ALM T1TG](#)

[REPT EVT T1TG](#)

[REPT SW T1TG](#)

[RTRV-ALM-T1TG](#)

[RTRV-COND-T1TG](#)

[RTRV-DLSTAT-GR303](#)

[RTRV-GR303](#)

[RTRV-IG-DS1](#)

[SW-DX-GR303](#)

[ALW-Swdx-T1TG](#)

[DLT-GR303](#)

[DLT-IG-DS1](#)

[ED-GR8](#)

[ENT-GR303](#)

[ENT-IG-DS1](#)

[INH-Swdx-GR303](#)

[REPT ALM GR303](#)

[REPT EVT GR303](#)

[REPT SW GR303](#)

[RTRV-ALM-GR303](#)

[RTRV-COND-GR303](#)

[RTRV-CRS-T0](#)

[RTRV-DLSTAT-T1TG](#)

[RTRV-GR8](#)

[RTRV-T1TG](#)

[SW-DX-T1TG](#)

Input Format

```
DLT-T1TG:[TID]:<IgAid>:[CTAG];
```

Input Parameters

IgAid Interface Group AID. This parameter specifies the interface group to which is to be deleted.
IgAid is the AID [IgAid](#).

Input Example

```
DLT-T1TG::N1-1-IG2:43;
```

Errors

This message generates all of the [Default Errors](#).

DLT-T3

Name

DLT-T3: Delete Digital Signal 3

Description

Category: DS3 Facility **Security:** Memory Admin - by rate

This command removes the provisioning for a DS3 port from the database.

A DS3 port can only be deleted if it does not support other entities (i.e. T1 port, T1 cross-connect).

Defined by GR-199.

Related Messages:

[DLT-GOS-T3](#)

[ED-T3](#)

[ENT-T3](#)

[OPR-LPBK-T3](#)

[REPT EVT T3](#)

[REPT RST T3](#)

[RMV-T3](#)

[RTRV-ALM-T3](#)

[RTRV-GOS-T3](#)

[RTRV-T3](#)

[ED-GOS-T3](#)

[ENT-GOS-T3](#)

[INIT-REG-T3](#)

[REPT ALM T3](#)

[REPT RMV T3](#)

[RLS-LPBK-T3](#)

[RST-T3](#)

[RTRV-COND-T3](#)

[RTRV-PM-T3](#)

Input Format

DLT-T3 : [TID] :<Ds3Aid> : [CTAG] :: : [INCL=<INCL>] ;

Input Parameters

Ds3Aid DS3 Access Identifier. The address of the port being deleted. *Ds3Aid* is the AID [T3RngAid](#) and is listable and rangeable.

INCL INCLusive. This parameter provides a way for the user to request a forced deletion of a port even if it will delete an active Calix LINK. *INCL* is of type [BoolYN](#).

Input Example

```
DLT-T3:SYS2:N3-1-7-4:234:::INCL=Y;
```

Errors

This message generates all of the [Default Errors](#).

DLT-TGRP

Name

DLT-TGRP: Delete Test Group

Description

Category: Loop Testing **Security:** System Administration

This command removes the provisioning for Test Group for a specific Administration and Maintenance Processor (AMP).

Defined by Calix and modeled after DLT-rr in GR-199.

Related Messages:

[CHG-SPLIT](#)

[CONN-FPACC-MET](#)

[CONN-LPACC-MET](#)

[CONN-MON](#)

[CONN-TACC-MET](#)

[DISC-FPACC-MET](#)

[DISC-TACC](#)

[ED-FPACC](#)

[ED-TGRP](#)

[ENT-TGRP](#)

[REPT-STAT](#)

[RTRV-FPACC](#)

[RTRV-TGRP](#)

[TST-ITACC-MET](#)

[TST-ONT-MET](#)

Input Format

```
DLT-TGRP:[TID]:<MsAid>:[CTAG];
```

Input Parameters

MsAid Management/Maintenance Slot Access Identifier. The address of the Management/Maintenance Slot where the Administration and Maintenance Processor (AMP) card of the test group was

located. *MsAid* is the AID [MsAid](#).

Input Example

```
DLT-TGRP:SYS3:N6-1-MS:CTAG;
```

Errors

This message generates all of the [Default Errors](#).

DLT-TMPLT-ADSL

Name

DLT-TMPLT-ADSL: DLT TMPLT ADSL

Description

Category: ADSL Facility **Security:** Memory Admin - by rate

This command deletes the specified ADSL Template.

Defined by Calix and modeled after DLT-rr in GR-199.

Related Messages:

[DLT-ADSL](#)
[ED-ADSL](#)
[ENT-ADSL](#)
[ENT-TMPLT-ADSL](#)
[INIT-PWR-ADSL](#)
[REPT ALM ADSL](#)
[REPT RMV ADSL](#)
[RMV-ADSL](#)
[RTRV-ADSL](#)
[RTRV-COND-ADSL](#)
[RTRV-GOS-ADSL](#)
[RTRV-TMPLT-ADSL](#)

[DLT-GOS-ADSL](#)
[ED-GOS-ADSL](#)
[ENT-GOS-ADSL](#)
[INIT-ADSL](#)
[INIT-REG-ADSL](#)
[REPT EVT ADSL](#)
[REPT RST ADSL](#)
[RST-ADSL](#)
[RTRV-ALM-ADSL](#)
[RTRV-CSTAT-ADSL](#)
[RTRV-PM-ADSL](#)

Input Format

```
DLT-TMPLT-ADSL:[TID]:<DslProfAid>:[CTAG];
```

Input Parameters

DslProfAid ADSL Profile Access Identifier. The address of the specific entry in ADSL Profile table.
DslProfAid is the AID [DslProfProvAid](#).

Input Example

```
DLT-TMPLT-ADSL:SYS3:4:480::
```

Errors

This message generates all of the [Default Errors](#).

DLT-TMPLT-SECU

Name

DLT-TMPLT-SECU: Delete Template Security

Description

Category: Security **Security:** Security Administrator

This command will delete a numbered security template from the database.

Related Messages:

ALW-MSG-SECU	ALW-USER-SECU
CANC-CID-SECU	CANC-SES-SECU
DLT-USER-SECU	ED-RADIUS
ED-SYS-SECU	ED-TMPLT-SECU
ED-USER-SECU	ENT-TMPLT-SECU
ENT-USER-SECU	INH-MSG-SECU
INH-USER-SECU	REPT ALM SECU
REPT EVT SECU	RTRV-ALM-SECU
RTRV-COND-SECU	RTRV-RADIUS
RTRV-STATUS	RTRV-SYS-SECU
RTRV-TMPLT-SECU	RTRV-USER-SECU

Input Format

DLT-TMPLT-SECU:[TID]:<SecuTmpltAid>:[CTAG];

Input Parameters

SecuTmpltAid This is the AID of the template to be deleted. Only the numbered security templates may be deleted. *SecuTmpltAid* is the AID [SecuTmpltProvAid](#).

Input Example

DLT-TMPLT-SECU:SYS1:3:555;

Errors

This message generates all of the [Default Errors](#).

DLT-TMPLT-VLANVBPORT

Name

DLT-TMPLT-VLANVBPORT: Delete Template VLANVBPORT

Description

Category: IP **Security:** Memory Admin - by rate

Delete Template used for creating the association of a VBPORT to a VLAN. This template can be used to create the object that has the properties of the relationship.

Input Format

DLT-TMPLT-VLANVBPORT:[TID]:<VlanVbPortTmpltAid>:[CTAG];

Input Parameters

VlanVbPortTmpltAid VLAN VB Port Template Access Identifier. This is the identifier of the template. *VlanVbPortTmpltAid* is the AID [VlanPortTmpltAid](#).

Input Example

DLT-TMPLT-VLANVBPORT:1234:4:12345;

Errors

This message generates all of the [Default Errors](#).

DLT-USER-ACL

Name

DLT-USER-ACL: Delete User ACL

Description

Category: Security **Security:** Security User

Deletes a User Access Control List entry.

If a IP Address is included as an input parameter, only that specific address is removed from the list. The rest of the list is still active.

An Address Control List consists of up to 20 source address/mask pairs. If empty, no access restrictions are enforced.

Defined by Calix.

Related Messages:

[ACT-USER](#)

[ALW-USER-SECU](#)

[CANC](#)

[CANC-CID-SECU](#)

[CANC-PPPOESESS](#)

[CANC-SES-SECU](#)

[CANC-USER](#)

[DLT-USER-SECU](#)

[ED-PID](#)

[ED-USER-SECU](#)

[ENT-USER-ACL](#)

[ENT-USER-SECU](#)

[INH-USER-SECU](#)

[RTRV-USER-ACL](#)

[RTRV-USER-SECU](#)

Input Format

```
DLT-USER-ACL:[TID]:::[CTAG]:::IP=<IP>,IPMSK=<IPMSK>;
```

Input Parameters

IP IP Address. The IP address of the TL1 or iMS client. *IP* is the AID [IpAid](#).

IPMSK IP Address Mask. The mask to apply to the IP address, allowing for a range of IP addresses to be considered. *IPMSK* is the AID [IpAid](#).

Input Example

```
DLT-USER-ACL:SYS1::7:::IP=192.168.1.0,IPMSK=255.255.255.0;
```

Errors

This message generates all of the [Default Errors](#).

DLT-USER-SECU

Name

DLT-USER-SECU: Delete User Security

Description

Category: Security **Security:** Security Administrator

This command will remove a user from the security database. Only an administrator may do this. The AID block contains the user identifier.

Any TID may be used for this command as the security data associated with this command will be updated across the entire C7 network as a result of the execution of this command.

Defined in TR-835.

Related Messages:

[ACT-USER](#)

[ALW-USER-SECU](#)

[CANC-CID-SECU](#)

[CANC-SES-SECU](#)

[DLT-TMPLT-SECU](#)

[ED-PID](#)

[ED-SYS-SECU](#)

[ED-USER-SECU](#)

[ENT-USER-ACL](#)

[INH-MSG-SECU](#)

[REPT ALM SECU](#)

[RTRV-ALM-SECU](#)

[ALW-MSG-SECU](#)

[CANC](#)

[CANC-PPPOESESS](#)

[CANC-USER](#)

[DLT-USER-ACL](#)

[ED-RADIUS](#)

[ED-TMPLT-SECU](#)

[ENT-TMPLT-SECU](#)

[ENT-USER-SECU](#)

[INH-USER-SECU](#)

[REPT EVT SECU](#)

[RTRV-COND-SECU](#)

[RTRV-RADIUS](#)
[RTRV-SYS-SECU](#)
[RTRV-USER-ACL](#)

[RTRV-STATUS](#)
[RTRV-TMPLT-SECU](#)
[RTRV-USER-SECU](#)

Input Format

```
DLT-USER-SECU:[TID]:<UID>:[CTAG];
```

Input Parameters

UID User Identifier. The user's identifier for session to be cancelled. It is a non-confidential identifier that uniquely determines a user. The user's identifier is any combination of alphanumeric characters 4 to 10 characters long and is case-sensitive. *UID* is the AID [UserAid](#).

Input Example

```
DLT-USER-SECU:SYS2:JOEY:1223;
```

Errors

This message generates all of the [Default Errors](#).

DLT-VB

Name

DLT-VB: Delete Virtual Bridge

Description

Category: IP **Security:** Memory Admin - by rate

Delete Virtual Bridge.

Related Messages:

[DLT-CVIDREG](#)
[DLT-MACHOST](#)
[DLT-VLAN-VBPORT](#)
[DLT-VRPORT](#)
[ED-IGMP](#)

[DLT-IGMP-JOIN](#)
[DLT-VBPORT](#)
[DLT-VR](#)
[ED-CVIDREG](#)
[ED-MACHOST](#)

ED-VB	ED-VBPORT
ED-VLAN-VBPORT	ED-VR
ENT-CVIDREG	ENT-IGMP-JOIN
ENT-MACHOST	ENT-VB
ENT-VBPORT	ENT-VLAN-VBPORT
ENT-VR	ENT-VRPORT
REPT ALM VB	REPT ALM VR
REPT EVT VB	REPT EVT VR
RTRV-ALM-VB	RTRV-ALM-VR
RTRV-CVIDREG	RTRV-IGMP
RTRV-IGMP-JOIN	RTRV-MACHOST
RTRV-VB	RTRV-VBPORT
RTRV-VLAN-VBPORT	RTRV-VR
RTRV-VRPORT	

Input Format

```
DLT-VB: [ TID ] :<VbAid> : [ CTAG ] ;
```

Input Parameters

VbAid Virtual Bridge Access Identifier. *VbAid* is the AID [VbAid](#).

Input Example

```
DLT-VB::N1-1-VB1:543;
```

Errors

This message generates all of the [Default Errors](#).

DLT-VBPORT

Name

DLT-VBPORT: Delete Virtual Bridge Port

Description

Category: IP **Security:** Memory Admin - by rate

Delete a port participating in a virtual bridge. Deletion of a VBPORT will have the side effect of deleting any associated VLAN-VBPORTs.

Related Messages:

DLT-CVIDREG	DLT-IGMP-JOIN
DLT-MACHOST	DLT-VB
DLT-VLAN-VBPORT	DLT-VR
DLT-VRPORT	ED-CVIDREG
ED-IGMP	ED-MACHOST
ED-VB	ED-VBPORT
ED-VLAN-VBPORT	ED-VR
ENT-CVIDREG	ENT-IGMP-JOIN
ENT-MACHOST	ENT-VB
ENT-VBPORT	ENT-VLAN-VBPORT
ENT-VR	ENT-VRPORT
REPT ALM VB	REPT ALM VR
REPT EVT VB	REPT EVT VR
RTRV-ALM-VB	RTRV-ALM-VR
RTRV-CVIDREG	RTRV-IGMP
RTRV-IGMP-JOIN	RTRV-MACHOST
RTRV-VB	RTRV-VBPORT
RTRV-VLAN-VBPORT	RTRV-VR
RTRV-VRPORT	

Input Format

```
DLT-VBPORT:[ TID ]:<VbPortAid>:[ CTAG ];
```

Input Parameters

VbPortAid Virtual Bridge Port Aid - This is either the physical port or the VC end point associated with the virtual bridge. *VbPortAid* is the AID [VirtualBridgePortId](#).

Input Example

```
DLT-VBPORT:SYS:N1-1-VB2-4-1:1234;
```

Errors

This message generates all of the [Default Errors](#).

DLT-VCG

Name

DLT-VCG: Delete Voice Concentration Group

Description

Category: TDM Services **Security:** Memory Admin - by rate

This command is used to delete a Voice Concentration Group.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VRP	ED-AVO
ED-GOS-ONT	ED-ONT
ED-PROF-ONT	ED-RFVID
ED-VCG	ED-VRP
ENT-AVO	ENT-GOS-ONT
ENT-IG-VDS1	ENT-ONT
ENT-PROF-ONT	ENT-RFVID
ENT-VCG	ENT-VRP
INIT-ONT-UA	INIT-REG-ONT
REPT ALM AVO	REPT ALM ONT
REPT ALM RFVID	REPT ALM VCG
REPT ALM VRP	REPT EVT ONT
REPT RMV AVO	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR

[RTRV-VCG](#)
[RTRV-VRP](#)

[RTRV-VDS1](#)
[TST-ONT-MET](#)

Input Format

```
DLT-VCG: [ TID ] :<IgAid> : [ CTAG ] ;
```

Input Parameters

IgAid The address of the VCG being deleted. *IgAid* is the AID [IgAid](#).

Input Example

```
DLT-VCG: SYS:N1-2-IG3:459 ;
```

Errors

This message generates all of the [Default Errors](#).

DLT-VCGLINK

Name

DLT-VCGLINK: Delete VCGLINK

Description

Category: TDM Services **Security:** Memory Admin - by rate

Remove the assignment of a Voice Concentration Group (VCG) to a link.

Input Format

```
DLT-VCGLINK: [ TID ] :<IgAid> : [ CTAG ] :: <LINK> : [ INCL=<INCL> ] ;
```

Input Parameters

IgAid The address of the Voice Concentration Group. *IgAid* is the AID [IgAid](#).

LINK *LINK* is the AID [VcglinkId](#).

INCL INCL/Force. This flag can be used to force deletion when an endpoint is on an unreachable shelf.

INCL is of type [BoolYN](#). The default value is "N".

Input Example

```
DLT-VCGLINK:SYS:N1-2-IG3:795::N2-1-5-1-1:INCL=N;
```

Errors

This message generates all of the [Default Errors](#).

DLT-VID-CHAN

Name

DLT-VID-CHAN: Delete Video Channel

Description

Category: Video **Security:** Memory Admin - by rate

Delete a Video Channel.

Related Messages:

[DLT-DHCP-OUI](#)

[DLT-IP-IF](#)

[DLT-IP-ROUTE](#)

[DLT-IPIF-PORT](#)

[DLT-SUBIF-BINDING](#)

[DLT-VID-IRCLOC](#)

[DLT-VID-SUB](#)

[DLT-VID-SVC](#)

[DLT-VODCLNT](#)

[DLT-VODDSTLU](#)

[DLT-VODFLOW](#)

[DLT-VODSRCLU](#)

[DLT-VODSVR](#)

[ED-ARP](#)

[ED-IPIF-PORT](#)

[ED-VID-CHAN](#)

[ED-VID-SUB](#)

[ED-VID-SVC](#)

[ED-VODDSTLU](#)

[ENT-DHCP-OUI](#)

[ENT-IP-IF](#)

[ENT-IP-ROUTE](#)

[ENT-IPIF-PORT](#)

[ENT-SUBIF-BINDING](#)

[ENT-VID-CHAN](#)

[ENT-VID-IRCLOC](#)

[ENT-VID-SUB](#)

[ENT-VID-SVC](#)

[ENT-VODDSTLU](#)

[REPT EVT VODFLOW](#)

[RTRV-ARP](#)

[RTRV-DHCP-LEASE](#)

[RTRV-DHCP-OUI](#)

[RTRV-IP-IF](#)

[RTRV-IP-ROUTE](#)
[RTRV-SUBIF-BINDING](#)
[RTRV-VID-IRCLOC](#)
[RTRV-VID-SVC](#)
[RTRV-VODDSTLU](#)
[RTRV-VODSRCLU](#)

[RTRV-IPIF-PORT](#)
[RTRV-VID-CHAN](#)
[RTRV-VID-SUB](#)
[RTRV-VODCLNT](#)
[RTRV-VODFLOW](#)
[RTRV-VODSVR](#)

Input Format

```
DLT-VID-CHAN:[ TID ]:<IP>:[ CTAG ];
```

Input Parameters

IP IP Address. *IP* is the AID [IpAid](#).

Input Example

```
DLT-VID-CHAN::192.168.1.0:32;
```

Errors

This message generates all of the [Default Errors](#).

DLT-VID-IRCLOC

Name

DLT-VID-IRCLOC: DLT VID IRCLOC

Description

Category: Video **Security:** Memory Admin - by rate

This command is used to delete IRCs from the video service.

Related Messages:

[DLT-DHCP-OUI](#)
[DLT-IP-ROUTE](#)
[DLT-SUBIF-BINDING](#)
[DLT-VID-SUB](#)

[DLT-IP-IF](#)
[DLT-IPIF-PORT](#)
[DLT-VID-CHAN](#)
[DLT-VID-SVC](#)

<u>DLT-VODCLNT</u>	<u>DLT-VODDSTLU</u>
<u>DLT-VODFLOW</u>	<u>DLT-VODSRCLU</u>
<u>DLT-VODSVR</u>	<u>ED-ARP</u>
<u>ED-IPIF-PORT</u>	<u>ED-VID-CHAN</u>
<u>ED-VID-SUB</u>	<u>ED-VID-SVC</u>
<u>ED-VODDSTLU</u>	<u>ENT-DHCP-OUI</u>
<u>ENT-IP-IF</u>	<u>ENT-IP-ROUTE</u>
<u>ENT-IPIF-PORT</u>	<u>ENT-SUBIF-BINDING</u>
<u>ENT-VID-CHAN</u>	<u>ENT-VID-IRCLOC</u>
<u>ENT-VID-SUB</u>	<u>ENT-VID-SVC</u>
<u>ENT-VODDSTLU</u>	<u>REPT EVT VODFLOW</u>
<u>RTRV-ARP</u>	<u>RTRV-DHCP-LEASE</u>
<u>RTRV-DHCP-OUI</u>	<u>RTRV-IP-IF</u>
<u>RTRV-IP-ROUTE</u>	<u>RTRV-IPIF-PORT</u>
<u>RTRV-SUBIF-BINDING</u>	<u>RTRV-VID-CHAN</u>
<u>RTRV-VID-IRCLOC</u>	<u>RTRV-VID-SUB</u>
<u>RTRV-VID-SVC</u>	<u>RTRV-VODCLNT</u>
<u>RTRV-VODDSTLU</u>	<u>RTRV-VODFLOW</u>
<u>RTRV-VODSRCLU</u>	<u>RTRV-VODSVR</u>

Input Format

```
DLT-VID-IRCLOC:[TID]:<VidServAid>:[CTAG];
```

Input Parameters

VidServAid Video Service Access Identifier. The AID of the Video Service that contains the IRC.
VidServAid is the AID [VidServAid](#).

Input Example

```
DLT-VID-IRCLOC:SYS2:1:34;
```

Errors

This message generates all of the [Default Errors](#).

DLT-VID-SUB

Name

DLT-VID-SUB: Delete Video Subscriber

Description

Category: Video **Security:** Memory Admin - by rate

Delete Video Subscriber

Related Messages:

DLT-DHCP-OUI	DLT-IP-IF
DLT-IP-ROUTE	DLT-IPIF-PORT
DLT-SUBIF-BINDING	DLT-VID-CHAN
DLT-VID-IRCLOC	DLT-VID-SVC
DLT-VODCLNT	DLT-VODDSTLU
DLT-VODFLOW	DLT-VODSRCLU
DLT-VODSVR	ED-ARP
ED-IPIF-PORT	ED-VID-CHAN
ED-VID-SUB	ED-VID-SVC
ED-VODDSTLU	ENT-DHCP-OUI
ENT-IP-IF	ENT-IP-ROUTE
ENT-IPIF-PORT	ENT-SUBIF-BINDING
ENT-VID-CHAN	ENT-VID-IRCLOC
ENT-VID-SUB	ENT-VID-SVC
ENT-VODDSTLU	REPT EVT VODFLOW
RTRV-ARP	RTRV-DHCP-LEASE
RTRV-DHCP-OUI	RTRV-IP-IF
RTRV-IP-ROUTE	RTRV-IPIF-PORT
RTRV-SUBIF-BINDING	RTRV-VID-CHAN
RTRV-VID-IRCLOC	RTRV-VID-SUB
RTRV-VID-SVC	RTRV-VODCLNT
RTRV-VODDSTLU	RTRV-VODFLOW
RTRV-VODSRCLU	RTRV-VODSVR

Input Format

```
DLT-VID-SUB: [ TID ] : <VidSubAid> : [ CTAG ] :: : RTRAID=<RTRAID> ;
```

Input Parameters

VidSubAid Video Subscriber Access Identifier - The port or channel to which subscribers are connected. Usually an ADSL Channel or ONT (or vDSL in the future) port. *VidSubAid* is the AID [VidSubAid](#).

RTRAID Target Router Access Identifier (IRC) *RTRAID* is the AID [SlotLuAid](#).

Input Example

```
DLT-VID-SUB:SYS:N1-3-12-1:432:::RTRRAID=N1-1-9;
```

Errors

This message generates all of the [Default Errors](#).

DLT-VID-SVC

Name

DLT-VID-SVC: Delete VID SVC

Description

Category: Video **Security:** Memory Admin - by rate

This command deletes the video service.

Related Messages:

[DLT-DHCP-OUI](#)

[DLT-IP-IF](#)

[DLT-IP-ROUTE](#)

[DLT-IPIF-PORT](#)

[DLT-SUBIF-BINDING](#)

[DLT-VID-CHAN](#)

[DLT-VID-IRCLOC](#)

[DLT-VID-SUB](#)

[DLT-VODCLNT](#)

[DLT-VODDSTLU](#)

[DLT-VODFLOW](#)

[DLT-VODSRCLU](#)

[DLT-VODSVR](#)

[ED-ARP](#)

[ED-IPIF-PORT](#)

[ED-VID-CHAN](#)

[ED-VID-SUB](#)

[ED-VID-SVC](#)

[ED-VODDSTLU](#)

[ENT-DHCP-OUI](#)

[ENT-IP-IF](#)

[ENT-IP-ROUTE](#)

[ENT-IPIF-PORT](#)

[ENT-SUBIF-BINDING](#)

[ENT-VID-CHAN](#)

[ENT-VID-IRCLOC](#)

[ENT-VID-SUB](#)

[ENT-VID-SVC](#)

[ENT-VODDSTLU](#)

[REPT EVT VODFLOW](#)

[RTRV-ARP](#)

[RTRV-DHCP-LEASE](#)

[RTRV-DHCP-OUI](#)

[RTRV-IP-IF](#)

[RTRV-IP-ROUTE](#)

[RTRV-IPIF-PORT](#)

[RTRV-SUBIF-BINDING](#)
[RTRV-VID-IRCLOC](#)
[RTRV-VID-SVC](#)
[RTRV-VODDSTLU](#)
[RTRV-VODSRCLU](#)

[RTRV-VID-CHAN](#)
[RTRV-VID-SUB](#)
[RTRV-VODCLNT](#)
[RTRV-VODFLOW](#)
[RTRV-VODSVR](#)

Input Format

```
DLT-VID-SVC:[TID]:<VidSvcAid>:[CTAG];
```

Input Parameters

VidSvcAid Video Service Access Identifier. *VidSvcAid* is the AID [VidSvcAid](#).

Input Example

```
DLT-VID-SVC:SYS2:1:34;
```

Errors

This message generates all of the [Default Errors](#).

DLT-VLAN

Name

DLT-VLAN: DLT VLAN

Description

Category: IP **Security:** Memory Admin - by rate

This command deletes a Virtual LAN from an XLAN.

Related Messages:

[DLT-AGG](#)
[DLT-AGG-PORT](#)
[DLT-ETH-ACL](#)
[DLT-LSWITCH](#)
[DLT-PROF-ETH](#)

[DLT-AGG-ACL](#)
[DLT-ETH](#)
[DLT-GOS-ETH](#)
[DLT-LSWITCH-PORT](#)
[DLT-VLAN-PORT](#)

DLT-VLAN-VBPORT	ED-ETH
ED-GOS-ETH	ED-VLAN
ED-VLAN-PORT	ED-VLAN-VBPORT
ENT-AGG	ENT-AGG-ACL
ENT-AGG-PORT	ENT-ETH
ENT-ETH-ACL	ENT-GOS-ETH
ENT-LSWITCH	ENT-LSWITCH-PORT
ENT-PROF-ETH	ENT-VLAN
ENT-VLAN-PORT	ENT-VLAN-VBPORT
INIT-LSWITCH	INIT-STAT-ETH
REPT ALM ETH	REPT EVT ETH
REPT RMV ETH	REPT RST ETH
RMV-ETH	RST-ETH
RTRV-AGG	RTRV-AGG-ACL
RTRV-AGG-PORT	RTRV-ALM-ETH
RTRV-COND-ETH	RTRV-ETH
RTRV-ETH-ACL	RTRV-GOS-ETH
RTRV-LSWITCH	RTRV-LSWITCH-PORT
RTRV-PM-ETH	RTRV-PROF-ETH
RTRV-STAT-ETH	RTRV-VLAN
RTRV-VLAN-PORT	RTRV-VLAN-VBPORT

Input Format

```
DLT-VLAN:[TID]:<VLanAid>:[CTAG];
```

Input Parameters

VLanAid Virtual LAN Access Identifier. *VLanAid* is the AID [VlanId](#).

Input Example

```
DLT-VLAN::XLAN10-VLAN50:543;
```

Errors

This message generates all of the [Default Errors](#).

DLT-VLAN-PORT

Name

DLT-VLAN-PORT: Delete VLAN Port

Description

Category: IP **Security:** Memory Admin - by rate

This command deletes a port from a Virtual LAN.

Related Messages:

[DLT-AGG](#)

[DLT-AGG-PORT](#)

[DLT-ETH-ACL](#)

[DLT-LSWITCH](#)

[DLT-PROF-ETH](#)

[DLT-VLAN-VBPORT](#)

[ED-GOS-ETH](#)

[ED-VLAN-PORT](#)

[ENT-AGG](#)

[ENT-AGG-PORT](#)

[ENT-ETH-ACL](#)

[ENT-LSWITCH](#)

[ENT-PROF-ETH](#)

[ENT-VLAN-PORT](#)

[INIT-LSWITCH](#)

[REPT ALM ETH](#)

[REPT RMV ETH](#)

[RMV-ETH](#)

[RTRV-AGG](#)

[RTRV-AGG-PORT](#)

[RTRV-COND-ETH](#)

[RTRV-ETH-ACL](#)

[RTRV-LSWITCH](#)

[RTRV-PM-ETH](#)

[RTRV-STAT-ETH](#)

[RTRV-VLAN-PORT](#)

[DLT-AGG-ACL](#)

[DLT-ETH](#)

[DLT-GOS-ETH](#)

[DLT-LSWITCH-PORT](#)

[DLT-VLAN](#)

[ED-ETH](#)

[ED-VLAN](#)

[ED-VLAN-VBPORT](#)

[ENT-AGG-ACL](#)

[ENT-ETH](#)

[ENT-GOS-ETH](#)

[ENT-LSWITCH-PORT](#)

[ENT-VLAN](#)

[ENT-VLAN-VBPORT](#)

[INIT-STAT-ETH](#)

[REPT EVT ETH](#)

[REPT RST ETH](#)

[RST-ETH](#)

[RTRV-AGG-ACL](#)

[RTRV-ALM-ETH](#)

[RTRV-ETH](#)

[RTRV-GOS-ETH](#)

[RTRV-LSWITCH-PORT](#)

[RTRV-PROF-ETH](#)

[RTRV-VLAN](#)

[RTRV-VLAN-VBPORT](#)

Input Format

DLT-VLAN-PORT:[TID]:<VLanPortAid>:[CTAG];

Input Parameters

VLanPortAid VLAN port Access Identifier. *VLanPortAid* is the AID [VLanPortAid](#).

Input Example

```
DLT-VLAN-PORT::N1-1-1-1-XLAN10-VLAN50:543;
```

Errors

This message generates all of the [Default Errors](#).

DLT-VLAN-VBPORT

Name

DLT-VLAN-VBPORT: Delete VLAN VBPORT

Description

Category: IP **Security:** Memory Admin - by rate

Delete a Packet Port associated with the VLAN.

Related Messages:

DLT-AGG	DLT-AGG-ACL
DLT-AGG-PORT	DLT-CVIDREG
DLT-ETH	DLT-ETH-ACL
DLT-GOS-ETH	DLT-IGMP-JOIN
DLT-LSWITCH	DLT-LSWITCH-PORT
DLT-MACHOST	DLT-PROF-ETH
DLT-VB	DLT-VBPORT
DLT-VLAN	DLT-VLAN-PORT
DLT-VR	DLT-VRPORT
ED-CVIDREG	ED-ETH
ED-GOS-ETH	ED-IGMP
ED-MACHOST	ED-VB
ED-VBPORT	ED-VLAN
ED-VLAN-PORT	ED-VLAN-VBPORT
ED-VR	ENT-AGG
ENT-AGG-ACL	ENT-AGG-PORT
ENT-CVIDREG	ENT-ETH

ENT-ETH-ACL	ENT-GOS-ETH
ENT-IGMP-JOIN	ENT-LSWITCH
ENT-LSWITCH-PORT	ENT-MACHOST
ENT-PROF-ETH	ENT-VB
ENT-VBPORT	ENT-VLAN
ENT-VLAN-PORT	ENT-VLAN-VBPORT
ENT-VR	ENT-VRPORT
INIT-LSWITCH	INIT-STAT-ETH
REPT ALM ETH	REPT ALM VB
REPT ALM VR	REPT EVT ETH
REPT EVT VB	REPT EVT VR
REPT RMV ETH	REPT RST ETH
RMV-ETH	RST-ETH
RTRV-AGG	RTRV-AGG-ACL
RTRV-AGG-PORT	RTRV-ALM-ETH
RTRV-ALM-VB	RTRV-ALM-VR
RTRV-COND-ETH	RTRV-CVIDREG
RTRV-ETH	RTRV-ETH-ACL
RTRV-GOS-ETH	RTRV-IGMP
RTRV-IGMP-JOIN	RTRV-LSWITCH
RTRV-LSWITCH-PORT	RTRV-MACHOST
RTRV-PM-ETH	RTRV-PROF-ETH
RTRV-STAT-ETH	RTRV-VB
RTRV-VBPORT	RTRV-VLAN
RTRV-VLAN-PORT	RTRV-VLAN-VBPORT
RTRV-VR	RTRV-VRPORT

Input Format

DLT-VLAN-VBPORT : [TID] : <VbPortAid> : [CTAG] :: : VLAN=<VLAN> ;

Input Parameters

VbPortAid *VbPortAid* is the AID [VirtualBridgePortId](#).

VLAN VLAN Access Identifier associated with the port *VLAN* is the AID [PacketVlanAid](#).

Input Example

DLT-VLAN-VBPORT :: N1 -1 -VB1 -4 -1 : 543 :: : VLAN=N1 -1 -VB1 -VLAN1 ;

Errors

This message generates all of the [Default Errors](#).

DLT-VODCLNT

Name

DLT-VODCLNT: Delete VOD Client

Description

Category: Video **Security:** Memory Admin - by rate

A VOD Client is a control device that acts on behalf of the content providers to initiate the request for bandwidth from the C7 network using the Calix Bandwidth Reservation Protocol. The VOD Client is created automatically when a session is initiated with the IRC.

Defined by Calix.

Related Messages:

[DLT-DHCP-OUI](#)

[DLT-IP-ROUTE](#)

[DLT-SUBIF-BINDING](#)

[DLT-VID-IRCLOC](#)

[DLT-VID-SVC](#)

[DLT-VODFLOW](#)

[DLT-VODSVR](#)

[ED-IPIF-PORT](#)

[ED-VID-SUB](#)

[ED-VODDSTLU](#)

[ENT-IP-IF](#)

[ENT-IPIF-PORT](#)

[ENT-VID-CHAN](#)

[ENT-VID-SUB](#)

[ENT-VODDSTLU](#)

[RTRV-ARP](#)

[RTRV-DHCP-OUI](#)

[RTRV-IP-ROUTE](#)

[RTRV-SUBIF-BINDING](#)

[RTRV-VID-IRCLOC](#)

[RTRV-VID-SVC](#)

[RTRV-VODDSTLU](#)

[RTRV-VODSRCLU](#)

[DLT-IP-IF](#)

[DLT-IPIF-PORT](#)

[DLT-VID-CHAN](#)

[DLT-VID-SUB](#)

[DLT-VODDSTLU](#)

[DLT-VODSRCLU](#)

[ED-ARP](#)

[ED-VID-CHAN](#)

[ED-VID-SVC](#)

[ENT-DHCP-OUI](#)

[ENT-IP-ROUTE](#)

[ENT-SUBIF-BINDING](#)

[ENT-VID-IRCLOC](#)

[ENT-VID-SVC](#)

[REPT EVT VODFLOW](#)

[RTRV-DHCP-LEASE](#)

[RTRV-IP-IF](#)

[RTRV-IPIF-PORT](#)

[RTRV-VID-CHAN](#)

[RTRV-VID-SUB](#)

[RTRV-VODCLNT](#)

[RTRV-VODFLOW](#)

[RTRV-VODSVR](#)

Input Format

```
DLT-VODCLNT:[TID]:<IpAid>:[CTAG]:::IRCAID=<IRCAID>, [ INCL=<INCL> ];
```

Input Parameters

IpAid IP Address. The IP address of the VOD Client. *IpAid* is the AID [IpAid](#).

IRCAID IRC AID. The address of the IRC. *IRCAID* is the AID [SlotLuAid](#).

INCL INCLusive. This parameter provides a way for the user to request a forced deletion of a VOD Client. Normally VOD Clients are created and deleted by the C7 system. *INCL* is of type [BoolYN](#). The default value is "N".

Input Example

```
DLT-VODCLNT:SYS1:192.168.10.2:123:::IRCAID=N1-2-3, INCL=N;
```

Errors

This message generates all of the [Default Errors](#).

DLT-VODDSTLU

Name

DLT-VODDSTLU: Delete VOD Destination Line Unit

Description

Category: Video **Security:** Memory Admin - by rate

A VOD Destination LU is the slot on which VOD flows targeting subscribers on this shelf have their flows terminate. If multiple VOD Destination LUs are present in a shelf, the IRC will use the first LU with an available VOD Internal Flow VC with enough bandwidth. If the VOD Destination LU is deleted, all flows that terminate on it will be torn down. The TRFPROF and FLOWLMT parameters act to create hidden "VOD Internal Flow VCs". If there is insufficient bandwidth to support the requested number of flows, then the operation will fail and no change will occur to the system.

Defined by Calix.

Related Messages:

[DLT-DHCP-OUI](#)

[DLT-IP-IF](#)

DLT-IP-ROUTE	DLT-IPIF-PORT
DLT-SUBIF-BINDING	DLT-VID-CHAN
DLT-VID-IRCLOC	DLT-VID-SUB
DLT-VID-SVC	DLT-VODCLNT
DLT-VODFLOW	DLT-VODSRCLU
DLT-VODSVR	ED-ARP
ED-IPIF-PORT	ED-VID-CHAN
ED-VID-SUB	ED-VID-SVC
ED-VODDSTLU	ENT-DHCP-OUI
ENT-IP-IF	ENT-IP-ROUTE
ENT-IPIF-PORT	ENT-SUBIF-BINDING
ENT-VID-CHAN	ENT-VID-IRCLOC
ENT-VID-SUB	ENT-VID-SVC
ENT-VODDSTLU	REPT EVT VODFLOW
RTRV-ARP	RTRV-DHCP-LEASE
RTRV-DHCP-OUI	RTRV-IP-IF
RTRV-IP-ROUTE	RTRV-IPIF-PORT
RTRV-SUBIF-BINDING	RTRV-VID-CHAN
RTRV-VID-IRCLOC	RTRV-VID-SUB
RTRV-VID-SVC	RTRV-VODCLNT
RTRV-VODDSTLU	RTRV-VODFLOW
RTRV-VODSRCLU	RTRV-VODSVR

Input Format

DLT-
VODDSTLU:[TID]:<EqptAid>:[CTAG]:::IRCAID=<IRCAID>, [INCL=<INCL>];

Input Parameters

EqptAid VOD Destination LU Access Identifier. The address of the VOD Destination Line Unit.
EqptAid is the AID [EquipmentId3](#).

IRCAID IRC AID. The address of the IRC. *IRCAID* is the AID [SlotLuAid](#).

INCL INCLusive. This parameter provides a way for the user to request a forced deletion of a VOD Destination LU. The VODDSTLU is created by ENT-VODDSTLU operation command. If not in use, it can be deleted without INCL flag. However, if some active VOD flow is using the VODDSTLU, the INCL flag must be provided and the affected active flow will be torn down. *INCL* is of type [BoolYN](#). The default value is "N".

Input Example

DLT-VODDSTLU:SYS1:N2-3-4:123:::IRCAID=N1-2-3, INCL=N;

Errors

This message generates all of the [Default Errors](#).

DLT-VODFLOW

Name

DLT-VODFLOW: Delete VOD Flow

Description

Category: Video **Security:** Memory Admin - by rate

A VOD Flow is the combination of an VOD Source LU, VOD Destination LU, and a restricted uni-directional cross-connect between them (if they are on different shelves). The term Flow is used to differentiate that there may not be an actual cross-connect associated with this particular VOD content delivery. Rather, the term Flow was chosen for its usage to describe an IP packet communication between two specific endpoints.

Defined by Calix.

Related Messages:

[DLT-DHCP-OUI](#)

[DLT-IP-ROUTE](#)

[DLT-SUBIF-BINDING](#)

[DLT-VID-IRCLOC](#)

[DLT-VID-SVC](#)

[DLT-VODDSTLU](#)

[DLT-VODSVR](#)

[ED-IPIF-PORT](#)

[ED-VID-SUB](#)

[ED-VODDSTLU](#)

[ENT-IP-IF](#)

[ENT-IPIF-PORT](#)

[ENT-VID-CHAN](#)

[ENT-VID-SUB](#)

[ENT-VODDSTLU](#)

[RTRV-ARP](#)

[RTRV-DHCP-OUI](#)

[RTRV-IP-ROUTE](#)

[RTRV-SUBIF-BINDING](#)

[RTRV-VID-IRCLOC](#)

[DLT-IP-IF](#)

[DLT-IPIF-PORT](#)

[DLT-VID-CHAN](#)

[DLT-VID-SUB](#)

[DLT-VODCLNT](#)

[DLT-VODSRCLU](#)

[ED-ARP](#)

[ED-VID-CHAN](#)

[ED-VID-SVC](#)

[ENT-DHCP-OUI](#)

[ENT-IP-ROUTE](#)

[ENT-SUBIF-BINDING](#)

[ENT-VID-IRCLOC](#)

[ENT-VID-SVC](#)

[REPT EVT VODFLOW](#)

[RTRV-DHCP-LEASE](#)

[RTRV-IP-IF](#)

[RTRV-IPIF-PORT](#)

[RTRV-VID-CHAN](#)

[RTRV-VID-SUB](#)

[RTRV-VID-SVC](#)
[RTRV-VODDSTLU](#)
[RTRV-VODSRCLU](#)

[RTRV-VODCLNT](#)
[RTRV-VODFLOW](#)
[RTRV-VODSVR](#)

Input Format

```
DLT-
VODFLOW: [ TID ] :<VodFlowId> :[ CTAG ] :: : IRCAID=<IRCAID>, [ INCL=<INCL> ] ;
```

Input Parameters

VodFlowId VOD Flow Access Identifier. Number of the VOD flow. *VodFlowId* is the AID [VodFlowAid](#).

IRCAID IRC AID. The address of the IRC. *IRCAID* is the AID [SlotLuAid](#).

INCL INCLusive. This parameter provides a way for the user to request a forced deletion of a VOD Flow. Normally VOD Flows are created and deleted by the C7 system. *INCL* is of type [BoolYN](#). The default value is "N".

Input Example

```
DLT-VODFLOW::1:123:::IRCAID=N1-2-3, INCL=N;
```

Errors

This message generates all of the [Default Errors](#).

DLT-VODSRCLU

Name

DLT-VODSRCLU: Delete VOD Source Line Unit

Description

Category: Video **Security:** Memory Admin - by rate

A VOD Source Line Unit is the optical line unit whose external interface is closest to one or more VOD servers. It is the source LU for all VOD Flows originating at one of the VOD servers closes to this LU (in a routing protocol sense). It is created automatically by the IRC when an active VOD server is connected to it.

Defined by Calix.

Related Messages:

DLT-DHCP-OUI	DLT-IP-IF
DLT-IP-ROUTE	DLT-IPIF-PORT
DLT-SUBIF-BINDING	DLT-VID-CHAN
DLT-VID-IRCLOC	DLT-VID-SUB
DLT-VID-SVC	DLT-VODCLNT
DLT-VODDSTLU	DLT-VODFLOW
DLT-VODSVR	ED-ARP
ED-IPIF-PORT	ED-VID-CHAN
ED-VID-SUB	ED-VID-SVC
ED-VODDSTLU	ENT-DHCP-OUI
ENT-IP-IF	ENT-IP-ROUTE
ENT-IPIF-PORT	ENT-SUBIF-BINDING
ENT-VID-CHAN	ENT-VID-IRCLOC
ENT-VID-SUB	ENT-VID-SVC
ENT-VODDSTLU	REPT EVT VODFLOW
RTRV-ARP	RTRV-DHCP-LEASE
RTRV-DHCP-OUI	RTRV-IP-IF
RTRV-IP-ROUTE	RTRV-IPIF-PORT
RTRV-SUBIF-BINDING	RTRV-VID-CHAN
RTRV-VID-IRCLOC	RTRV-VID-SUB
RTRV-VID-SVC	RTRV-VODCLNT
RTRV-VODDSTLU	RTRV-VODFLOW
RTRV-VODSRCLU	RTRV-VODSVR

Input Format

```
DLT-
VODSRCLU:[TID]:<EqptAid>:[CTAG]:::IRCAID=<IRCAID>, [INCL=<INCL>];
```

Input Parameters

EqptAid VOD Source LU Access Identifier. The address of the VOD Source Line Unit. *EqptAid* is the AID [VodsrcluId](#).

IRCAID IRC AID. The address of the IRC. *IRCAID* is the AID [SlotLuAid](#).

INCL INCLusive. This parameter provides a way for the user to request a forced deletion of a VOD Source LU. Normally VOD Source LUs are created and deleted by the C7 system. *INCL* is of type [BoolYN](#). The default value is "N".

Input Example

```
DLT-VODSRCLU:SYS1:N2-3-4:123:::IRCAID=N1-2-3, INCL=N;
```

Errors

This message generates all of the [Default Errors](#).

DLT-VODSVR

Name

DLT-VODSVR: Delete VOD Server

Description

Category: Video **Security:** Memory Admin - by rate

A VOD Server is a PC or Workstation that sources VOD content to the STBs. The VOD Server is created automatically in response to the first session that requests the server as the VOD source. Note that normally the VOD Server also acts as the VOD Client, in which case the VOD Server will exist as long as it is connected to the IRC via the VODSVR VCs. However, other architectures (Myrio) result in a separation of the VOD Client (STB) and VOD Server, in which case VOD Servers will come and go depending on whether it is sourcing any flows.

Defined by Calix.

Related Messages:

[DLT-DHCP-OUI](#)

[DLT-IP-ROUTE](#)

[DLT-SUBIF-BINDING](#)

[DLT-VID-IRCLOC](#)

[DLT-VID-SVC](#)

[DLT-VODDSTLU](#)

[DLT-VODSRCLU](#)

[ED-IPIF-PORT](#)

[ED-VID-SUB](#)

[ED-VODDSTLU](#)

[ENT-IP-IF](#)

[ENT-IPIF-PORT](#)

[ENT-VID-CHAN](#)

[ENT-VID-SUB](#)

[ENT-VODDSTLU](#)

[RTRV-ARP](#)

[RTRV-DHCP-OUI](#)

[RTRV-IP-ROUTE](#)

[DLT-IP-IF](#)

[DLT-IPIF-PORT](#)

[DLT-VID-CHAN](#)

[DLT-VID-SUB](#)

[DLT-VODCLNT](#)

[DLT-VODFLOW](#)

[ED-ARP](#)

[ED-VID-CHAN](#)

[ED-VID-SVC](#)

[ENT-DHCP-OUI](#)

[ENT-IP-ROUTE](#)

[ENT-SUBIF-BINDING](#)

[ENT-VID-IRCLOC](#)

[ENT-VID-SVC](#)

[REPT EVT VODFLOW](#)

[RTRV-DHCP-LEASE](#)

[RTRV-IP-IF](#)

[RTRV-IPIF-PORT](#)

[RTRV-SUBIF-BINDING](#)
[RTRV-VID-IRCLOC](#)
[RTRV-VID-SVC](#)
[RTRV-VODDSTLU](#)
[RTRV-VODSRCLU](#)

[RTRV-VID-CHAN](#)
[RTRV-VID-SUB](#)
[RTRV-VODCLNT](#)
[RTRV-VODFLOW](#)
[RTRV-VODSVR](#)

Input Format

```
DLT-VODSVR:[ TID ]:<IpAid>:[ CTAG ]:::IRCAID=<IRCAID>, [ INCL=<INCL> ] ;
```

Input Parameters

IpAid IP Address. The IP address of the VOD Server. *IpAid* is the AID [IpAid](#).

IRCAID IRC AID. The address of the IRC. *IRCAID* is the AID [SlotLuAid](#).

INCL INCLusive. This parameter provides a way for the user to request a forced deletion of a VOD Server. Normally VOD Servers are created and deleted by the C7 system. *INCL* is of type [BoolYN](#). The default value is "N".

Input Example

```
DLT-VODSVR:SYS1:192.168.10.2:123:::IRCAID=N1-2-3,INCL=N;
```

Errors

This message generates all of the [Default Errors](#).

DLT-VR

Name

DLT-VR: Delete Virtual Router

Description

Category: IP **Security:** Memory Admin - by rate

Delete Virtual Router.

Related Messages:

[DLT-CVIDREG](#)

[DLT-IGMP-JOIN](#)

DLT-MACHOST	DLT-VB
DLT-VBPORT	DLT-VLAN-VBPORT
DLT-VRPORT	ED-CVIDREG
ED-IGMP	ED-MACHOST
ED-VB	ED-VBPORT
ED-VLAN-VBPORT	ED-VR
ENT-CVIDREG	ENT-IGMP-JOIN
ENT-MACHOST	ENT-VB
ENT-VBPORT	ENT-VLAN-VBPORT
ENT-VR	ENT-VRPORT
REPT ALM VB	REPT ALM VR
REPT EVT VB	REPT EVT VR
RTRV-ALM-VB	RTRV-ALM-VR
RTRV-CVIDREG	RTRV-IGMP
RTRV-IGMP-JOIN	RTRV-MACHOST
RTRV-VB	RTRV-VBPORT
RTRV-VLAN-VBPORT	RTRV-VR
RTRV-VRPORT	

Input Format

```
DLT-VR : [ TID ] : <VrAid> : [ CTAG ] ;
```

Input Parameters

VrAid Virtual Router Access Identifier. *VrAid* is the AID [VrAid](#).

Input Example

```
DLT-VR :: N1-1-VR1 : 543 ;
```

Errors

This message generates all of the [Default Errors](#).

DLT-VRP

Name

DLT-VRP: Delete Video Return Path capability of an ONT

Description

Category: PON **Security:** Memory Admin - by rate

This command removes the Video Return Path configuration from the database.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	ED-AVO
ED-GOS-ONT	ED-ONT
ED-PROF-ONT	ED-RFVID
ED-VCG	ED-VRP
ENT-AVO	ENT-GOS-ONT
ENT-IG-VDS1	ENT-ONT
ENT-PROF-ONT	ENT-RFVID
ENT-VCG	ENT-VRP
INIT-ONT-UA	INIT-REG-ONT
REPT ALM AVO	REPT ALM ONT
REPT ALM RFVID	REPT ALM VCG
REPT ALM VRP	REPT EVT ONT
REPT RMV AVO	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
DLT-VRP:[TID]:<VrpAid>:[CTAG];
```

Input Parameters

VrpAid Video Return Path Access Identifier. *VrpAid* is the AID [VrpAid](#).

Input Example

```
DLT-VRP:SYS:N2-3-12-1-22-VRP:567;
```

Errors

This message generates all of the [Default Errors](#).

DLT-VRPORT

Name

DLT-VRPORT: Delete Virtual Router Port

Description

Category: IP **Security:** Memory Admin - by rate

Delete Virtual Router Port. This Aid is the virtual router end point index associated with the Virtual router.

Related Messages:

[DLT-CVIDREG](#)
[DLT-MACHOST](#)
[DLT-VBPORT](#)
[DLT-VR](#)
[ED-CVIDREG](#)
[ED-IGMP](#)
[ED-VB](#)
[ED-VLAN-VBPORT](#)
[ENT-CVIDREG](#)
[ENT-MACHOST](#)
[ENT-VBPORT](#)
[ENT-VR](#)
[REPT ALM VB](#)
[REPT EVT VB](#)
[RTRV-ALM-VB](#)
[RTRV-CVIDREG](#)

[DLT-IGMP-JOIN](#)
[DLT-VB](#)
[DLT-VLAN-VBPORT](#)
[ED-VR](#)
[ED-MACHOST](#)
[ED-VBPORT](#)
[ED-VR](#)
[ENT-IGMP-JOIN](#)
[ENT-VB](#)
[ENT-VLAN-VBPORT](#)
[ENT-VRPORT](#)
[REPT ALM VR](#)
[REPT EVT VR](#)
[RTRV-ALM-VR](#)
[RTRV-IGMP](#)

[RTRV-IGMP-JOIN](#)
[RTRV-VB](#)
[RTRV-VLAN-VBPORT](#)
[RTRV-VRPORT](#)

[RTRV-MACHOST](#)
[RTRV-VBPORT](#)
[RTRV-VR](#)

Input Format

```
DLT-VRPORT:[ TID ]:<VrPortAid>:[ CTAG ];
```

Input Parameters

VrPortAid Virtual Router Port Identifier - This is the Endpoint index id associated with a virtual router.
VrPortAid is the AID [VrEpIdxAid](#).

Input Example

```
DLT-VRPORT:SYS:N1-1-VR1-1:1234;
```

Errors

This message generates all of the [Default Errors](#).

DLT-VSP

Name

DLT-VSP: Delete Voice Signal Processor

Description

Category: TDM Services **Security:** Memory Admin - by rate

This command removes the provisioning for a VSP port from the database.

The VSP port cannot be deleted if it is supporting an H.248 VOIP link.

Related Messages:

[DLT-H248](#)
[ED-H248](#)
[ENT-H248](#)
[ENT-VSP](#)

[DLT-IG-VSP](#)
[ED-VSP](#)
[ENT-IG-VSP](#)
[REPT ALM H248](#)

[RTRV-ALM-H248](#)
[RTRV-H248](#)
[RTRV-VSP](#)

[RTRV-COND-H248](#)
[RTRV-IG-VSP](#)

Input Format

```
DLT-VSP:[TID]:<VspAid>:[CTAG];
```

Input Parameters

VspAid The AID of the VSP port. *VspAid* is the AID [VspPortAid](#).

Input Example

```
DLT-VSP:SYS:N3-2-7-1:1237;
```

Errors

This message generates all of the [Default Errors](#).

DLT-XLAN

Name

DLT-XLAN: DLT XLAN

Description

Category: Ethernet **Security:** Memory Admin - by rate

This command removes the provisioning for an Extended LAN. Note that all LSwitches that belong to the XLAN must first be deleted.

Defined by Calix.

Input Format

```
DLT-XLAN:[TID]:<XLanAid>:[CTAG];
```

Input Parameters

XLanAid EXtended LAN Access Identifier. *XLanAid* is the AID [XLanAid](#).

Input Example

```
DLT-XLAN:SYS1:XLAN10:345;
```

Errors

This message generates all of the [Default Errors](#).

ED-<OCN>

Name

ED-<[OCN](#)>: Edit (OC12, OC3, OC48)

Description

Category: OCn Facility **Security:** Memory Admin - by rate

This command edits the parameters associated with an OCn facility.

Defined in GR-199.

Related Messages:

[DLT-<OCN>](#)
[DLT-GOS-<OCN>](#)
[ED-GOS-<OCN>](#)
[ENT-FFP-<OCN>](#)
[INIT-REG-<OCN>](#)
[OPR-PROTNSW-<OCN>](#)
[REPT EVT <OCN>](#)
[REPT RST <OCN>](#)
[RLS-PROTNSW-<OCN>](#)
[RST-<OCN>](#)
[RTRV-ALM-<OCN>](#)
[RTRV-FFP-<OCN>](#)
[RTRV-PM-<OCN>](#)

[DLT-FFP-<OCN>](#)
[ED-FFP-<OCN>](#)
[ENT-<OCN>](#)
[ENT-GOS-<OCN>](#)
[OPR-LPBK-<OCN>](#)
[REPT ALM <OCN>](#)
[REPT RMV <OCN>](#)
[RLS-LPBK-<OCN>](#)
[RMV-<OCN>](#)
[RTRV-<OCN>](#)
[RTRV-COND-<OCN>](#)
[RTRV-GOS-<OCN>](#)

Input Format

```
ED-<OCN>:[TID]:<OcAid>:[CTAG]:::  
[[TXS1=<TXS1>,][RXS1=<RXS1>,[LSREN=<LSREN>,[EXT=<EXT>,[FEPM=<FEPM>,  
[ALMPROF=<ALMPROF>,[SDBER=<SDBER>,[SFBER=<SFBER>,[GOS=<GOS>,  
[PDOM=<PDOM>,[DESC=<DESC>]:[<PST>,<SST>];
```

Input Parameters

OcAid	OCn Access Identifier. The address of the OCn port being modified. <i>OcAid</i> is the AID FourPortLuAndRapAid .
TXS1	Transmit S1. This parameter is set to Y if the sync status nibble indicates the source of timing. It is set to N if the nibble is set to Do not Use for Synchronization (DUS). <i>TXS1</i> is of type BoolYN .
RXS1	Receive S1. This parameter is set to Y if the received S1 sync status is to be acted upon. It is set to N if it is to be ignored. <i>RXS1</i> is of type BoolYN .
LSREN	LaSeR ENable. This parameter is set to Y to enable transmitting a signal over this facility. If the facility is to be used for receiving only, the value should be set to N. <i>LSREN</i> is of type BoolYN .
EXT	External Interface. This indicates if the OCn port is an internal or external path in the network. The value should be set to "Y" when the port is an external interface. It should be set to "N" when the port is connected to other shelves within a network of C7s. Note that EXT cannot be set to "N" on Sonet-only cards. Also note that this parameter must be changed independently of others, ie. a separate ED-OCn command is required. <i>EXT</i> is of type BoolYN .
FEPM	Far End Performance Monitoring. When this parameter is set to "N", the Far End Performance Monitoring data is not collected. When retrieving Far End PM, the Monitored Values (MONVAL) field will contain '0' and the Validity (VLDTY) field will contain 'INVLD'. When this parameter is set to "Y", data collection for Far End Performance Monitoring is enabled. The default value is "N". <i>FEPM</i> is of type BoolYN .
ALMPROF	Alarm Profile. The set of alarm Notification codes to be associated with this entity. <i>ALMPROF</i> is the AID AlmProfileAid .
SDBER	Signal Degraded Bit Error Rate. The threshold value above which the Line's bit error rate constitutes a Degraded Signal. <i>SDBER</i> is of type BitErrorRateSD .
SFBER	Signal Failed Bit Error Rate. The threshold value above which the Line's bit error rate constitutes a Failed Signal. <i>SFBER</i> is of type BitErrorRateSF .
GOS	Grade of service. This identifies the OCn grade of service for performance monitoring (PM) which will be applied to the OCn port. <i>GOS</i> is the AID GosAid .
PDOM	Protection domain. This is an integer that is used to associate a transport facility into a protection domain that is used for A to Z connection provisioning. The PDOM for each domain must be a unique non-zero integer. The value of 0 is reserved to indicate that the facility is not to be used for A to Z connections. <i>PDOM</i> is of type Pdom .
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String.
PST	Primary Service State. This is the service state which the user wants the entity to transition into. <i>PST</i> is of type PrimaryStateChg .
SST	Secondary Service State. The only secondary service state which is provisionable is SB. It only applies when the PST is OOS. <i>SST</i> is of type SecondaryStateChgSB .

Input Example

```
ED-OC12:SYS1:N3-3-3-
3:435:::TXS1=N,RXS1=N,LSREN=Y,EXT=N,FEPM=Y,ALMPROF=AISCR,
SDBER=6,SFBER=4,GOS=3,PDOM=0,DESC="DESCRIPTION":OOS,SB;
```

Errors

This message generates all of the [Default Errors](#).

ED-<STSN>

Name

ED-<[STSN](#)>: Edit (STS1, STS12C, STS3C, STS48C)

Description

Category: STSn Path **Security:** Memory Admin - by rate

This command edits parameters associated with an STS facility.

Defined in GR-199.

Related Messages:

[DLT-<STSN>](#)
[DLT-GOS-<STSN>](#)
[ED-GOS-<STSN>](#)
[ENT-CRS-<STSN>](#)
[INIT-REG-<STSN>](#)
[REPT ALM <STSN>](#)
[REPT RMV <STSN>](#)
[RLS-PROTNSW-<STSN>](#)
[RST-<STSN>](#)
[RTRV-ALM-<STSN>](#)
[RTRV-CRS-<STSN>](#)
[RTRV-PM-<STSN>](#)

[DLT-CRS-<STSN>](#)
[ED-CRS-<STSN>](#)
[ENT-<STSN>](#)
[ENT-GOS-<STSN>](#)
[OPR-PROTNSW-<STSN>](#)
[REPT EVT <STSN>](#)
[REPT RST <STSN>](#)
[RMV-<STSN>](#)
[RTRV-<STSN>](#)
[RTRV-COND-<STSN>](#)
[RTRV-GOS-<STSN>](#)

Input Format

```
ED-<STSN>:[TID]:<StsAid>:[CTAG]:::
[ [ STSMAP=<STSMAP>, ][ TIMDET=<TIMDET>, ][ EXPTRC=<EXPTRC>, ][ TRC=<TRC>, ]
```

[FEPM=<FEPM>,] [ALMPROF=<ALMPROF>,] [SDBER=<SDBER>,] [SFBER=<SFBER>,] [GOS=<GOS>,] [PYLDSCRM=<PYLDSCRM>,] [ATMMON=<ATMMON>,] [DESC=<DESC>] : [<PST> , [<SST>] ;
--

Input Parameters

StsAid	STS Path Access Identifier. The address of the STS path being modified. <i>StsAid</i> is the AID StsAid .
STSMAP	STS Mapping. This parameter indicates the type of mapping supported by the STS-p SPE. <i>STSMAP</i> is of type StsMap .
TIMDET	Trace Identifier Mismatch Detection. This parameter indicates whether to turn on or off the trace identifier mismatch detection for the expected trace. <i>TIMDET</i> is of type OnOff .
EXPTRC	Expected Path Trace. This parameter is the expected Path Trace (J1) content. The maximum length of the string is 62 characters. The system will automatically add a carriage return (CR) and line feed (LF) to end of string to make it 64 characters. <i>EXPTRC</i> is a String.
TRC	Transmit Path Trace. This parameter indicates the path trace to be transmitted. The maximum length of the string is 62 characters. The system will automatically add a carriage return (CR) and line feed (LF) to end of string to make it 64 characters. <i>TRC</i> is a String.
FEPM	Far End Performance Monitoring. When this parameter is set to "N", the Far End Performance Monitoring data is not collected. When retrieving Far End PM, the Monitored Values (MONVAL) field will contain '0' and the Validity (VLDTY) field will contain 'INVLD'. When this parameter is set to "Y", data collection for Far End Performance Monitoring is enabled. The default value is "N". <i>FEPM</i> is of type BoolYN .
ALMPROF	Alarm Profile. The set of alarm Notification codes to be associated with this entity. <i>ALMPROF</i> is the AID AlmProfileStsAid .
SDBER	Signal Degraded Bit Error Rate. The threshold value above which the Path's bit error rate constitutes a Degraded Signal. <i>SDBER</i> is of type BitErrorRateSD .
SFBER	Signal Failed Bit Error Rate. The threshold value above which the Path's bit error rate constitutes a Failed Signal. Note that the valid SFBER threshold can currently be only 4 or 5; a value of 3 is not valid for STS12c. <i>SFBER</i> is of type BitErrorRateSF .
GOS	Grade of Service Access Identifier. This identifies the specific Grade of Service for Performance Monitoring (PM) which will be applied to the STSnC facility. <i>GOS</i> is the AID GosAid .
PYLDSCRM	Payload Scrambling. This parameter is set to Y to enable the scrambling of ATM cells. It applies only to UNI and NNI interfaces, in which case it defaults to 'Y'. <i>PYLDSCRM</i> is of type BoolYN .
ATMMON	ATM Diagnostic Monitoring. This parameter is set to Y to enable ATM diagnostic monitoring on the STS path. If enabled, an ATM OAM loopback ping is injected on VP0-VC3 to verify point-to-point connectivity with the next line unit. It applies only to ATMNNI and ATMUNI interfaces. <i>ATMMON</i> is of type BoolYN .
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String.
PST	Primary Service State. This is the service state which the user wants the entity to transition into. <i>PST</i> is of type PrimaryStateChg .

SST Secondary Service State. The only secondary service state which is provisionable is SB. It only applies when the PST is OOS. SST is of type [SecondaryStateChgSB](#).

Input Example

```
ED-STS12C:SYS99:N4-4-9-1-13:234:::STSMAP=PT,TIMDET=ON,
EXPTRC="EXPECTED PATH
TRACE",TRC="TRACE",FEPM=Y,ALMPROF=AISCR,SDBER=6,
SFBER=4,GOS=3,PYLDSCRM=Y,ATMMON=N,DESC="DESCRIPTION":OOS,SB;
```

Errors

This message generates all of the [Default Errors](#).

ED-ADSL

Name

ED-ADSL: Edit Asymmetric Digital Subscriber Line

Description

Category: ADSL Facility **Security:** Memory Admin - by rate

This command will edit the parameters associated with a ADSL facility.

Service Type -- single-channel

Service Type	XDSR0 (Max DS 0)	MDSR0 (Min DS 0)	XUSR0 (Max US 0)	MUSR0 (Min US 0)
MM	32-16352 (8160)	32-16352 (384)	32-2048 (800)	32-2048 (128)
MM2+	32-32736 (32736)	32-32736 (384)	32-2048 (800)	32-2048 (128)
G.DMT	32-16352 (8160)	32-16352 (384)	32-2048 (800)	32-2048 (128)
G.LITE	32-1536 (1536)	32-1536 (384)	32-512 (512)	32-512 (128)
T1.413	32-16352 (8160)	32-16352 (384)	32-2048 (800)	32-2048 (128)
ADSL2	32-16352 (16352)	32-16352 (384)	32-2048 (800)	32-2048 (128)
ADSL2+	32-32736 (32736)	32-32736 (384)	32-2048 (800)	32-2048 (128)
READSL2	32-1536 (1536)	32-1536 (384)	32-512 (512)	32-512 (128)
ANNEXM	32-32736 (32736)	32-32736 (384)	32-3072 (800)	32-3072 (128)

Note: Currently, only single-channel mode is supported.

Note: all values in kbps and multiples of 32.

Note: default values are in parentheses.

Note: the Minimum rates cannot be bigger than the Maximum rates for the same direction (up/down-stream)

There are two methods of provisioning: "best effort" and "fixed rate" In best effort provisioning, the minimum rates are set low and the maximum rates are set high so as to allow the modem to adapt to the best values within the range. In fixed rate provisioning, the user sets the minimum and maximum rates to the same value, forcing the modem to that value. It should be noted that thus setting the minimum to some value towards the maximum end of the range can cause problems with modem synchronization.

Also note that the actual rates achieved by a modem may not reach the maximum provisioned rate. For example, although the Maximum Downstream Rate for single-channel is 16352 kbps, the best seen in testing is with the Westel 2400 modem, which achieved a rate of 11300 kbps.

If SRVTYPE is specified and is different from the current provisioning, associated built-in ADSL profile will be used to re-set defaults for that service type prior to applying other edited parameter values.

Tone Configuration

The user may optionally select the index of the start and end tones in upstream and downstream directions. This feature does not apply to the MM service type.

If any one of DSST, DSET, USST, or USET is zero, the chipset default tone configurations will be used and these provisioned values will be ignored. Ranges and defaults for the supported service types are shown in the following table.

Service Type	DSST	DSET	USST	USET
GDMT, GLITE, T1413, ADSL2	32-255 (32)	32-255 (255)	6-30 (6)	6-30 (30)
ADSL2+, ANNEXM	32-511(32)	32-511 (511)	6-30 (6)	6-30 (30)

Power Management

The Power Management parameters (PMMODE, L0TIME, L2TIME, L2ATPR, L2MINR, L2EXITR, L2ENTRYR, L2ENTRYT) apply for service types: MM, ADSL2, ADSL2PLUS, and READSL2.

Rate Adaptation

The Rate Adaptation parameters (RADMDS, RADMUS, RAUMDS, RAUMUS) apply for service types: MM, ADSL2, ADSL2PLUS, and READSL2. They must satisfy the relationships:

MMDS <= RADMDS <= TMDS <= RAUMDS <= XMDS, and

MMUS <= RADMUS <= TMUS <= RAUMUS <= XMUS

Defined in GR-199.

Related Messages:

[DLT-ADSL](#)

[DLT-TMPLT-ADSL](#)

[ENT-ADSL](#)

[ENT-TMPLT-ADSL](#)

[DLT-GOS-ADSL](#)

[ED-GOS-ADSL](#)

[ENT-GOS-ADSL](#)

[INIT-ADSL](#)

[INIT-PWR-ADSL](#)
[REPT ALM ADSL](#)
[REPT RMV ADSL](#)
[RMV-ADSL](#)
[RTRV-ADSL](#)
[RTRV-COND-ADSL](#)
[RTRV-GOS-ADSL](#)
[RTRV-TMPLT-ADSL](#)

[INIT-REG-ADSL](#)
[REPT EVT ADSL](#)
[REPT RST ADSL](#)
[RST-ADSL](#)
[RTRV-ALM-ADSL](#)
[RTRV-CSTAT-ADSL](#)
[RTRV-PM-ADSL](#)

Input Format

```
ED-ADSL:[TID]:<AdslAid>:[CTAG]:::[<SRVTYPE>],[<CHNL0>],[<CHNL1>]:  

  [[PROF=<PROF>],[XDSR0=<XDSR0>],[MDSR0=<MDSR0>],[XUSR0=<XUSR0>],]  

  [MUSR0=<MUSR0>],[XDSR1=<XDSR1>],[MDSR1=<MDSR1>],[XUSR1=<XUSR1>],]  

  [MUSR1=<MUSR1>],[DSEXR=<DSEXR>],[USEXR=<USEXR>],[TMDS=<TMDS>],]  

  [XMDS=<XMDS>],[MMDS=<MMDS>],[TMUS=<TMUS>],[XMUS=<XMUS>],[MMUS=<MMUS>],]  

  [DSLAT=<DSLAT>],[USLAT=<USLAT>],[TC=<TC>],[RAMODEDS=<RAMODEDS>],]  

  [RAMODEUS=<RAMODEUS>],[RAUMDS=<RAUMDS>],[RADMDS=<RADMDS>],]  

  [RAUTDS=<RAUTDS>],[RADTDS=<RADTDS>],[RAUMUS=<RAUMUS>],[RADMUS=<RADMUS>],]  

  [RAUTUS=<RAUTUS>],[RADTUS=<RADTUS>],[PMMODE=<PMMODE>],[LOTIME=<LOTIME>],]  

  [L2TIME=<L2TIME>],[L2ATPR=<L2ATPR>],[L2MINR=<L2MINR>],[L2EXITR=<L2EXITR>],]  

  [L2ENTRYR=<L2ENTRYR>],[L2ENTRYT=<L2ENTRYT>],[DSST=<DSST>],[DSET=<DSET>],]  

  [USST=<USST>],[USET=<USET>],[GOS=<GOS>],[REPTRMVRST=<REPTRMVRST>],]  

  [INCL=<INCL>],[DESC=<DESC>]]:[<PST>],[<SST>];
```

Input Parameters

AdslAid	Asymmetric Digital Subscriber Line (ADSL) Access Identifier. The address of the ADSL port which is being modified. <i>AdslAid</i> is the AID TwentyFourPortLuAid .
SRVTYPE	Service Type. This parameter specifies the ADSL operating modes that dictate the ADSL handshaking protocol, channel capacity, and other physical line characteristics based on ADSL specifications. <i>SRVTYPE</i> is of type AdslType .
CHNL0	Channel 0 Selection/Allocation. Settings for channel path latency. Choosing a latency path of Fast means minimum (4 ms) delay is expected while choosing a latency path of Interleaved means more delay. <i>CHNL0</i> is of type ChnlSelect0 .
CHNL1	Channel 1 Selection/Allocation. Settings for channel path latency. Choosing a latency path of Fast means minimum (2 ms) delay is expected while choosing a latency path of Interleaved means more delay. <i>CHNL1</i> is of type ChnlSelect1 .
PROF	ADSL Profile. This specifies the ADSL profile which is to set the initial values for the configuration parameters for the ADSL line. These parameters may be over-ridden by the values specified in the other parameters of the ED-ADSL command. <i>PROF</i> is the AID DslProfAid .
XDSR0	Maximum Downstream Rate - Channel 0 (kbps). <i>XDSR0</i> is of type DwnStreamRate .
MDSR0	Minimum Downstream Rate - Channel 0 (kbps). <i>MDSR0</i> is of type DwnStreamRate .
XUSR0	Maximum Upstream Rate - Channel 0 (kbps). <i>XUSR0</i> is of type UpStreamRate .
MUSR0	Minimum Upstream Rate - Channel 0 (kbps). <i>MUSR0</i> is of type UpStreamRate .
XDSR1	Maximum Downstream Rate - Channel 1 (kbps). <i>XDSR1</i> is of type DwnStreamRate .

MDSR1	Minimum Downstream Rate - Channel 1 (kbps). <i>MDSR1</i> is of type DwnStreamRate .
XUSR1	Maximum Upstream Rate - Channel 1 (kbps). <i>XUSR1</i> is of type UpStreamRate .
MUSR1	Minimum Upstream Rate - Channel 1 (kbps). <i>MUSR1</i> is of type UpStreamRate .
DSEXR	Downstream Excess Rate Ratio. The ratio configuration values, 1 for downstream and 1 for upstream, specify the ratio (expressed in %) of excess bit rate that is to be applied to the primary bearer channel before applying bit rate to the secondary bearer channel. The primary channel will always be channel 0. The excess bit rate is the rate considered for rate adaptation amongst the primary and secondary channels (Channel 0 and Channel 1). The rate that can be considered excess is the rate in excess of the minimum bit rate parameter for each DS and US channel. (Values in kbps) <i>DSEXR</i> is of type ExcessRate .
USEXR	Upstream Excess Rate Ratio. The ratio configuration values, 1 for downstream and 1 for upstream, specify the ratio (expressed in %) of excess bit rate that is to be applied to the primary bearer channel before applying bit rate to the secondary bearer channel. The primary channel will always be channel 0. The excess bit rate is the rate considered for rate adaptation amongst the primary and secondary channels (Channel 0 and Channel 1). The rate that can be considered excess is the rate in excess of the minimum bit rate parameter for each DS and US channel. (Values in kbps) <i>USEXR</i> is of type ExcessRate .
TMDS	Target Downstream SNR Margin. This parameter specifies the desired downstream signal to noise ratio margin in dB. This margin specifies how much noise can increase while still achieving a BER of at least 10-7. Actual connection margins may be greater than or less than the desired target margin based on the configured maximum and minimum downstream bit rates. Higher connect margins will result when maximum configured data rates are lower than the maximum achievable data rates. Lower connect margins will result when the minimum configured data rate is not achievable at the desired margin. <i>TMDS</i> is of type SnrTargetMargins .
XMDS	Maximum Downstream SNR Margin. This parameter specifies the maximum downstream signal to noise ratio (SNR) margin in dB. This margin is a threshold for reducing the transmit power of the ATU-C. It may not always be possible to reduce the actual connection margin for short loops and lower bit rate configuration. As a result, a connect margin greater than the specified maximum margin is possible. The maximum downstream SNR margin must be greater than the target downstream SNR margin. <i>XMDS</i> is of type SnrMaxMargins .
MMDS	Minimum Downstream SNR Margin. This parameter specifies the minimum downstream signal to noise ratio margin in dB. This margin specifies the minimum threshold allowed for modem operation. The connection will fail if the operating downstream margin falls below the specified minimum for more than 20 seconds and a modem retrain will be attempted. The minimum downstream margin must be less than the target downstream margin. <i>MMDS</i> is of type SnrMinMargins .
TMUS	Target Upstream SNR Margin. This parameter specifies the desired upstream signal to noise ratio (SNR) margin in dB. This margin specifies how much noise can increase while still achieving a BER of at least 10-7. Actual connection margins may be greater than or less than the desired target margin based on the configured maximum and minimum upstream bit rates. Higher connect margins will result when maximum configured data rates are lower than the maximum achievable data rates. Lower connect margins will result when the minimum configured data rate is not achievable at the desired margin. <i>TMUS</i> is of type SnrTargetMargins .

XMUS	Maximum Upstream SNR Margin. This parameter specifies the maximum upstream signal to noise ratio (SNR) margin in dB. This margin is a threshold for reducing the transmit power of the ATU-R. It may not always be possible to reduce the actual connection margin for short loops and lower bit rate configuration. As a result, a connect margin greater than the specified maximum margin is possible. The maximum upstream SNR margin must be greater than the target upstream SNR margin. <i>XMUS</i> is of type SnrMaxMargins .
MMUS	Minimum Upstream SNR Margin. This parameter specifies the minimum upstream signal to noise ratio (SNR) margin in dB. This margin specifies the minimum threshold allowed for modem training. The connection will fail if the operating upstream margin falls below the specified minimum for more than 20 seconds. The minimum upstream margin must be less than the target upstream margin <i>MMUS</i> is of type SnrMinMargins .
DSLAT	Downstream Latency. Latency is the delay in data transmission through the DSL link. Latency parameter is configured in milliseconds. The AUTO setting allows the ADSL card to pick the most appropriate interleave latency. If either DSLAT or USLAT is set to AUTO, both will be set to AUTO in h/w. NOTE: If both DSLAT and USLAT are set to the value "AUTO", neither parameter can be changed individually. Both of these parameters must be set to a numeric value at the same time in order to change them. The "AUTO" value must be set for both DSLAT and USLAT if you want to use "AUTO" for either direction. <i>DSLAT</i> is of type Latency .
USLAT	Upstream Latency. Latency is the delay in data transmission through the DSL link. Latency parameter is configured in milliseconds. The AUTO setting allows the ADSL card to pick the most appropriate interleave latency. If either DSLAT or USLAT is set to AUTO, both will be set to AUTO in h/w. NOTE: If both DSLAT and USLAT are set to the value "AUTO", neither parameter can be changed individually. Both of these parameters must be set to a numeric value at the same time in order to change them. The "AUTO" value must be set for both DSLAT and USLAT if you want to use "AUTO" for either direction. <i>USLAT</i> is of type Latency .
TC	Trellis Coding. Enables trellis coding to improve the DSL system performance. Trellis coding is an encoding scheme for piggybacking bits onto the electrical signal on the twisted pair. <i>TC</i> is of type TrellisCoding .
RAMODEDS	Rate Adaptation MODE DownStream. <i>RAMODEDS</i> is of type RateAdaptationMode .
RAMODEUS	Rate Adaptation MODE UpStream. <i>RAMODEUS</i> is of type RateAdaptationMode .
RAUMDS	Rate Adaptation Upshift Margin DownStream (dB). This applies when RAMODE is DYNAMIC. <i>RAUMDS</i> must be greater than <i>RADMDS</i> . <i>RAUMDS</i> is of type SnrMaxMargins .
RADMDS	Rate Adaptation Downshift Margin DownStream (dB). This applies when RAMODE is DYNAMIC. <i>RAUMDS</i> must be greater than <i>RADMDS</i> . <i>RADMDS</i> is of type SnrMaxMargins .
RAUTDS	Rate Adaptation Upshift Time Downstream (seconds). This applies when RAMODE is DYNAMIC. <i>RAUTDS</i> is of type RateAdaptationMarginSeconds .
RADTDS	Rate Adaptation Downshift Time Downstream (seconds). This applies when RAMODE is DYNAMIC. <i>RADTDS</i> is of type RateAdaptationMarginSeconds .
RAUMUS	Rate Adaptation Upshift Margin UpStream (dB). This applies when RAMODE is DYNAMIC. <i>RAUMUS</i> must be greater than <i>RADMUS</i> . <i>RAUMUS</i> is of type SnrMaxMargins .

RADMUS	Rate Adaptation Downshift Margin UpStream (dB). This applies when RAMODE is DYNAMIC. <i>RAUMUS</i> must be greater than <i>RADMUS</i> . <i>RADMUS</i> is of type SnrMaxMargins .
RAUTUS	Rate Adaptation Upshift Time UpStream (seconds). This applies when RAMODE is DYNAMIC. <i>RAUTUS</i> is of type RateAdaptationMarginSeconds .
RADTUS	Rate Adaptation Downshift Time UpStream (seconds). This applies when RAMODE is DYNAMIC. <i>RADTUS</i> is of type RateAdaptationMarginSeconds .
PMMODE	Power Management MODE. <i>PMMODE</i> is of type AdslPowerMgmtStates .
L0TIME	Minimum L0 Time interval between L2 exit and next L2 entry. (0-255 seconds) <i>L0TIME</i> is a Integer.
L2TIME	Minimum L2 time interval between L2 entry and first L2 trim. (0-255 seconds) <i>L2TIME</i> is a Integer.
L2ATPR	Maximum Aggregate Transmit Power Reduction per L2 trim. (dB) <i>L2ATPR</i> is of type SnrMaxMargins .
L2MINR	Minimum Data Rate in Low Power Mode (L2). This parameter specifies the minimum net data rate (in Kbps) during the low power state. If the actual user data rate is lower than L2MINR, raw cells will be injected to maintain the provisioned value. The value can range from 256 to 1024 Kbps. <i>L2MINR</i> is a Integer.
L2EXITR	L2 Exit Rate Threshold. This parameter specifies the downstream datarate threshold (in Kbps), which triggers exit from low power state (L2). The value ranges between 1 and 1024, and must be less than L2MINR. <i>L2EXITR</i> is a Integer.
L2ENTRYR	L2 Entry Rate Threshold. This parameter specifies the downstream data rate threshold (in Kbps), which triggers autonomous entry into low power state (L2). The value can range from 1 to 1024, and must be less or equal to L2EXITR. <i>L2ENTRYR</i> is a Integer.
L2ENTRYT	L2 Entry Time Threshold. This parameter specifies minimum interval of time (in seconds) that the net data rate should stay below L2ENTRYR before autonomous entry into low power state (L2). The value can range from 900 to 65535 seconds. <i>L2ENTRYT</i> is a Integer.
DSST	DownStream Start Tone index. DSST must be less than or equal to DSET. <i>DSST</i> is a Integer.
DSET	DownStream End Tone index. DSET must be greater than or equal to DSST. <i>DSET</i> is a Integer.
USST	UpStream Start Tone index. USST must be less than or equal USET. <i>USST</i> is a Integer.
USET	UpStream End Tone index. USET must be greater than or equal to USST. <i>USET</i> is a Integer.
GOS	Grade of service. This identifies the ADSL grade of service for performance monitoring (PM) which will be applied to the ADSL port. <i>GOS</i> is the AID GosAid .
REPTRMVRST	This parameter inhibits or enables the reporting of RMV/RST events for the port. Note that RMV/RST are reported upon every modem retrain and can clutter the event logs if enabled. <i>REPTRMVRST</i> is of type BoolYN .
INCL	INCLusive. <i>INCL</i> is of type BoolYN . The default value is "N".
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String.

- PST** Primary Service State. This is the service state which the user wants the entity to transition into. *PST* is of type [PrimaryStateChg](#).
- SST** Secondary Service State. The only secondary service state which is provisionable is SB. It only applies when the PST is OOS. *SST* is of type [SecondaryStateChgSB](#).

Input Example

```
ED-ADSL:SYS3:N1-1-3-1:439::ADSL2+,FAST,DISABLE:PROF=3,XDSR0=48,MDSR0=32,
XUSR0=32,MUSR0=32,XDSR1=32,MDSR1=32,XUSR1=32,MUSR1=32,DSEXR=50,USEXR=50,
TMDS=6,XMDS=31,MMDS=0,TMUS=6,XMUS=31,MMUS=0,DSLAT=24,USLAT=24,TC=ENABLED,
RAMODEDS=DYNAMIC,RAMODEUS=DYNAMIC,RAUMDS=31,RADMDS=0,RAUTDS=30,RADTDS=30,
RAUMUS=31,RADMUS=0,RAUTUS=30,RADTUS=30,PMMODE=L2,L0TIME=5,L2TIME=5,
L2ATPR=2,L2MINR=1024,L2EXITR=512,L2ENTRYR=1,L2ENTRYT=1800,DSST=32,DSET=511,
USST=6,USET=30,GOS=OFF,REPTRMVRST=N,INCL=N,DESC="DESCRIPTION":OOS,SB;
```

Errors

This message generates all of the [Default Errors](#).

ED-AP

Name

ED-AP: Edit ATM Resource Port

Description

Category: IMA Group **Security:** Memory Admin - by rate

Edit ATM Resource Port

Related Messages:

[DLT-AP](#)

[DLT-AP-T1](#)

[DLT-GOS-AP](#)

[DLT-GOS-IMA](#)

[DLT-GOS-IMALINK](#)

[DLT-IMA](#)

[DLT-IMA-PORT](#)

[ED-GOS-AP](#)

[ED-GOS-IMA](#)

[ED-GOS-IMALINK](#)

[ED-IMA](#)

[ENT-AP](#)

[ENT-AP-T1](#)

[ENT-GOS-AP](#)

[ENT-GOS-IMA](#)

[ENT-GOS-IMALINK](#)

[ENT-IMA](#)

[ENT-IMA-PORT](#)

INIT-REG-AP	INIT-REG-IMA
INIT-REG-IMALINK	REPT ALM AP
REPT ALM IMA	REPT ALM IMALINK
REPT EVT AP	REPT EVT IMA
REPT EVT IMALINK	REPT RMV AP
REPT RST AP	RMV-AP
RMV-IMA	RST-AP
RST-IMA	RTRV-ALM-AP
RTRV-ALM-IMA	RTRV-ALM-IMALINK
RTRV-AP	RTRV-COND-AP
RTRV-COND-IMA	RTRV-GOS-AP
RTRV-GOS-IMA	RTRV-GOS-IMALINK
RTRV-IMA	RTRV-PM-AP
RTRV-PM-IMA	RTRV-PM-IMALINK

Input Format

```
ED-AP : [ TID ] : <ApAid> : [ CTAG ] :: : [ [ ATMMAP=<ATMMAP> , ] [ PYLDSCRM=<PYLDSCRM> , ]
[ ATMMON=<ATMMON> , ] [ PDOM=<PDOM> , ] [ GOS=<GOS> , ] [ DESC=<DESC> ] ] : [ <PST> ] , [ <SST> ]
;
```

Input Parameters

ApAid	<i>ApAid</i> is the AID AtmRscPortAid .
ATMMAP	When payload signal is a form that may be altered at the ATM Resource port, this parameter specifies the mapping. <i>ATMMAP</i> is of type AtmMap .
PYLDSCRM	This parameter is set to Y to enable the scrambling of ATM cells. It is only applicable when ATMMAP is UNI or NNI. <i>PYLDSCRM</i> is of type BoolYN .
ATMMON	This parameter is set to Y to enable ATM diagnostic monitoring on the STS path. If enabled, an ATM OAM loopback ping is injected on VP0-VC3 to verify point-to-point connectivity with the next line unit. It applies only to NNI and UNI interfaces <i>ATMMON</i> is of type BoolYN .
PDOM	Protection Domain. This is an integer that is used to associate a transport facility into a protection domain that is used for A to Z connection provisioning. The PDOM for each domain must be a unique non-zero integer. The value of 0 is reserved to indicate that the facility is not to be used for A to Z connections <i>PDOM</i> is of type Pdom .
GOS	Grade of Service. This identifies the AP grade of service for performance monitoring (PM) which will be applied to the AP port. <i>GOS</i> is the AID GosAid .
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String.
PST	Primary Service State. This is the service state which the user wants the entity to transition into. <i>PST</i> is of type PrimaryStateChg .
SST	Secondary Service State. The only secondary service state which is provisionable is SB. It only applies when the PST is OOS. <i>SST</i> is of type SecondaryStateChgSB .

Input Example

```
ED-AP:SYS3:N1-3-5-
AP16:433::ATMMAP=IMA, PYLDSCRM=N, ATMMON=Y, PDOM=1, GOS=OFF,
DESC="DESCRIPTION":OOS, SB;
```

Errors

This message generates all of the [Default Errors](#).

ED-ARP

Name

ED-ARP: Edit ARP

Description

Category: IP **Security:** Memory Admin - by rate

Edit Address Resolution Protocol.

Related Messages:

[DLT-DHCP-OUI](#)

[DLT-IP-ROUTE](#)

[DLT-SUBIF-BINDING](#)

[DLT-VID-IRCLOC](#)

[DLT-VID-SVC](#)

[DLT-VODDSTLU](#)

[DLT-VODSRCLU](#)

[ED-IPIF-PORT](#)

[ED-VID-SUB](#)

[ED-VODDSTLU](#)

[ENT-IP-IF](#)

[ENT-IPIF-PORT](#)

[ENT-VID-CHAN](#)

[ENT-VID-SUB](#)

[ENT-VODDSTLU](#)

[RTRV-ARP](#)

[RTRV-DHCP-OUI](#)

[RTRV-IP-ROUTE](#)

[DLT-IP-IF](#)

[DLT-IPIF-PORT](#)

[DLT-VID-CHAN](#)

[DLT-VID-SUB](#)

[DLT-VODCLNT](#)

[DLT-VODFLOW](#)

[DLT-VODSVR](#)

[ED-VID-CHAN](#)

[ED-VID-SVC](#)

[ENT-DHCP-OUI](#)

[ENT-IP-ROUTE](#)

[ENT-SUBIF-BINDING](#)

[ENT-VID-IRCLOC](#)

[ENT-VID-SVC](#)

[REPT EVT VODFLOW](#)

[RTRV-DHCP-LEASE](#)

[RTRV-IP-IF](#)

[RTRV-IPIF-PORT](#)

[RTRV-SUBIF-BINDING](#)
[RTRV-VID-IRCLOC](#)
[RTRV-VID-SVC](#)
[RTRV-VODDSTLU](#)
[RTRV-VODSRCLU](#)

[RTRV-VID-CHAN](#)
[RTRV-VID-SUB](#)
[RTRV-VODCLNT](#)
[RTRV-VODFLOW](#)
[RTRV-VODSVR](#)

Input Format

```
ED-ARP:[TID]:<RTRAID>:[CTAG]:::[AGE=<AGE>];
```

Input Parameters

RTRAID *RTRAID* is the AID [RouterAid](#).

AGE ARP age time in seconds. Allow user to adjust ARP aging of routes. *AGE* is of type [ArpAgeRange](#).

Input Example

```
ED-ARP::N1-2-VR2:32:::AGE=58;
```

Errors

This message generates all of the [Default Errors](#).

ED-AVO

Name

ED-AVO: Edit Analog Video Overlay

Description

Category: PON **Security:** Memory Admin - by rate

This command is used to modify provisioning of an Analog Video Overlay Port. The AVO Port is the location where the Analog Video Overlay signal on the PON is terminated. An ONT will have an AVO facility if and only if it has at least one RF Video (COAX) output port.

Related Messages:

[DLT-AVO](#)

[DLT-GOS-ONT](#)

DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-GOS-ONT	ED-ONT
ED-PROF-ONT	ED-RFVID
ED-VCG	ED-VRP
ENT-AVO	ENT-GOS-ONT
ENT-IG-VDS1	ENT-ONT
ENT-PROF-ONT	ENT-RFVID
ENT-VCG	ENT-VRP
INIT-ONT-UA	INIT-REG-ONT
REPT ALM AVO	REPT ALM ONT
REPT ALM RFVID	REPT ALM VCG
REPT ALM VRP	REPT EVT ONT
REPT RMV AVO	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
ED-
AVO:[TID]:<OntPortAid>:[CTAG]:::[[OMI=<OMI>,][DESC=<DESC>]]:[<PST>],[<SST>]
;
```

Input Parameters

OntPortAid Analog Video Overlay Port Access Identifier. The address of the AVO port. (The ONT port number must be equal to 1.) *OntPortAid* is the AID [OntPortAid](#).

OMI The per-channel Optical Modulation Index of the RF-Video content that is being carried in the Analog Video Overlay signal. This parameter is only applied to ONTs that return an OMI value during initialization.

The value is a percentage, and must be between 3.2 and 3.8 (%). *OMI* is a String.

DESC DESCription. A user-settable description field, up to 31 characters. *DESC* is a String.

PST Primary Service State. This is the service state which the user wants the entity to transition into. *PST* is of type [PrimaryStateChg](#).

SST Secondary Service State. The only secondary service state which is provisionable is SB. It only applies when the PST is OOS. *SST* is of type [SecondaryStateChgSB](#).

Input Example

```
ED-AVO:SYS:N2-4-6-1-18-
1:345:::OMI=3.8,DESC="DESCRIPTION":OOS,SB;
```

Errors

This message generates all of the [Default Errors](#).

ED-BWC

Name

ED-BWC: Edit Bandwidth Constraint

Description

Category: Bandwidth Management

Security: Memory Admin - by rate

A Bandwidth Constraint is a generic identifier that can be used to aid in traffic management in the C7. Bandwidth Constraints can be attached to transport links in the C7 network to reserve bandwidth based on a particular application.

Defined by Calix.

Related Messages:

[DLT-BWC](#)

[RTRV-BW-PROV](#)

[ENT-BWC](#)

[RTRV-BWC](#)

Input Format

```
ED-BWC:[TID]:<BwcAid>:[CTAG]:::DESC=<DESC>;
```

Input Parameters

- BwcAid** Bandwidth Constraint Access Identifier. Identifier of the Bandwidth Constraint to be operated upon. *BwcAid* is the AID [BwcProvAid](#).
- DESC** DESCription. A user-settable description field for the constraint, up to 31 characters. *DESC* is a String.

Input Example

```
ED-BWC:SYS2:1:123:::DESC="TRAF 1";
```

Errors

This message generates all of the [Default Errors](#).

ED-BWCLINK

Name

ED-BWCLINK: Edit Link Bandwidth Constraint

Description

Category: Bandwidth Management

Security: Memory Admin - by rate

A Link Bandwidth Constraint is an association of a Bandwidth Constraint to a transport link in the C7 network. It is used to reserve bandwidth on the link for a specified application.

Defined by Calix.

Input Format

```
ED-
BWCLINK:[TID]:<LinkBwcAid>:[CTAG]:::[ [RXLMT=<RXLMT>,][RXNTFY=<RXNTFY>,
[TXLMT=<TXLMT>],[TXNTFY=<TXNTFY>]];
```

Input Parameters

- LinkBwcAid** Link Bandwidth Constraint Access Identifier. Identifies the Link Bandwidth Constraint to be operated upon. *LinkBwcAid* is the AID [LinkBwcAid](#).
- RXLMT** Receive Limit. Bandwidth reserved for the constraint in the ingress or receive direction on the link in kbps. *RXLMT* is a Integer.
- RXNTFY** Receive Notification Threshold. This parameter sets the percent threshold at which the

RXBWNTFY condition is raised. This condition indicates that bandwidth usage for the constraint in the receive direction exceeds this value. If this is set to OFF, no condition is raised. RXNTFY is of type [BwcNtfyThrRange](#).

TXLMT	Transmit Limit. Bandwidth reserved for the constraint in the egress or transmit direction on the link in kbps. TXLMT is a Integer.
TXNTFY	Transmit Notification Threshold. This parameter sets the percent threshold at which the TXBWNTFY condition is raised. This condition indicates that bandwidth usage for the constraint in the receive direction exceeds this value. If this is set to OFF, no condition is raised. TXNTFY is of type BwcNtfyThrRange .

Input Example

```
ED-BWCLINK:SYS2:N3-1-4-12-
BWC1:98:::RXLMT=1,RXNTFY=2,TXLMT=1,TXNTFY=2;
```

Errors

This message generates all of the [Default Errors](#).

ED-CRS-<STSN>

Name

ED-CRS-<STSN>: Edit Cross Connect (STS1, STS12C, STS3C, STS48C)

Description

Category: Cross Connect **Security:** Memory Admin - by rate

This command provides for modifying the attributes of existing STS cross connections.

Defined in GR-199.

Related Messages:

[DLT-<STSN>](#)
[DLT-GOS-<STSN>](#)
[ED-GOS-<STSN>](#)
[ENT-CRS-<STSN>](#)
[INIT-REG-<STSN>](#)
[REPT ALM <STSN>](#)
[REPT RMV <STSN>](#)
[RLS-PROTNSW-<STSN>](#)

[DLT-CRS-<STSN>](#)
[ED-<STSN>](#)
[ENT-<STSN>](#)
[ENT-GOS-<STSN>](#)
[OPR-PROTNSW-<STSN>](#)
[REPT EVT <STSN>](#)
[REPT RST <STSN>](#)
[RMV-<STSN>](#)

[RST-<STSN>](#)
[RTRV-ALM-<STSN>](#)
[RTRV-CRS-<STSN>](#)
[RTRV-PM-<STSN>](#)

[RTRV-<STSN>](#)
[RTRV-COND-<STSN>](#)
[RTRV-GOS-<STSN>](#)

Input Format

```
ED-CRS-<STSN>:[TID]:  

<SrcStsAid>,<DstStsAid>:[CTAG]:::[ [DROP=<DROP> , ] [DLTDROP=<DLTDROP>] ] ;
```

Input Parameters

- SrcStsAid** Source (From) Access Identifier. The address of the source (from) endpoint of the cross-connect being edited. *SrcStsAid* is the AID [StsCrsAid](#).
- DstStsAid** Destination (To) Access Identifier. This identifies address of the destination (to) endpoint of the cross-connect being modified. It does NOT indicate a new destination for the source identified. *DstStsAid* is the AID [StsCrsAid](#).
- DROP** Drop Location. This parameter indicates the location where the cross-connect is to be dropped along the path to the endpoint. This is used in drop-and-continue applications. *DROP* is the AID [StsCrsAid](#).
- DLTDROP** Delete Drop Location. This parameter indicates the location where the cross-connect is no longer to be dropped along the path to the endpoint. This is used to delete a drop in drop-and-continue applications. *DLTDROP* is the AID [StsCrsAid](#).

Input Example

```
ED-CRS-STS12C:SYS2:N4-5-5-1-1,N8-3-1-1-3:76:::DROP=N5-4-3-2-1,  

DLTDROP=N5-4-3-2-1;
```

Errors

This message generates all of the [Default Errors](#).

ED-CRS-VC

Name

ED-CRS-VC: Edit Cross Connect Virtual Circuit

Description

Category: Cross Connect**Security:** Memory Admin - by rate

This command provides for modifying the attributes of existing VC cross connections.

Defined in GR-199.

Related Messages:

[ACT-PROTN-VC](#)
[DLT-CRS-VC](#)
[DLT-PP](#)
[ED-CRS-VP](#)
[ENT-CRS-VC](#)
[ENT-PP](#)
[INIT-CSTAT-VC](#)
[INJ-LPBK-VC](#)
[MV-CRS-VC](#)
[OPR-CC-VC](#)
[REPT ALM PP](#)
[REPT EVT VC](#)
[REPT RMV PP](#)
[RLS-CC-VC](#)
[RMV-PP](#)
[RTRV-ALM-PP](#)
[RTRV-CRS-VC](#)
[RTRV-CSTAT-VC](#)
[RTRV-PP](#)
[RTRV-VTI](#)

[ACT-PROTN-VP](#)
[DLT-CRS-VP](#)
[DLT-PROF-TRF](#)
[ED-PROF-TRF](#)
[ENT-CRS-VP](#)
[ENT-PROF-TRF](#)
[INIT-CSTAT-VP](#)
[INJ-LPBK-VP](#)
[MV-CRS-VP](#)
[OPR-CC-VP](#)
[REPT EVT PP](#)
[REPT EVT VP](#)
[REPT RST PP](#)
[RLS-CC-VP](#)
[RST-PP](#)
[RTRV-COND-PP](#)
[RTRV-CRS-VP](#)
[RTRV-CSTAT-VP](#)
[RTRV-PROF-TRF](#)

Input Format

```
ED-CRS-VC:[TID]:<SrcVcAid>,<DstVcAid>:[CTAG]:::[ [DROP=<DROP> , ]  
[DROPPPL=<DROPPPL> , ] [DLTDROP=<DLTDROP> , ] [INTERNAL=<INTERNAL> ] ] ;
```

Input Parameters

- SrcVcAid** Source (From) Access Identifier. The address of the source (from) endpoint of the cross-connect being edited. *SrcVcAid* is the AID [VcId12](#).
- DstVcAid** Destination (To) Access Identifier. This identifies address of the destination (to) endpoint of the cross-connect being modified. It does NOT indicate a new destination for the source identified. *DstVcAid* is the AID [VcId12](#).
- DROP** DROP location. This parameter indicates the location where the cross-connect is to be dropped along the path to the endpoint. This is used in drop-and-continue applications. *DROP* is the AID [VcId3](#).
- DROPPPL** Drop Path Protection Label. This parameter indicates the PPL association for the cross-

connect drop end-point being added, if applicable. This parameter should only be used by expert users and requires the "allow restricted commands (ALW-CMD-RESTR)" option to be specified before it will be accepted by the system. *DROPPPL* is the AID [PplId1](#).

- DLTDROP** DeLeTe DROP location. This parameter indicates the location where the cross-connect is no longer to be dropped along the path to the endpoint. This is used to delete a drop in drop-and-continue applications. *DLTDROP* is the AID [VcId3](#).
- INTERNAL** Internal Cross Connects. If present, this parameter specifies the editing of otherwise hidden cross connects created internally by the C7. It is intended for use only by system experts or C7 support personnel. *INTERNAL* is of type [InternalCrsTypes](#) and is listable. The default value is "NONE".

Input Example

```
ED-CRS-VC:SYS2:N4-5-5-1-VP4-VC49,N8-3-1-1-VP3-VC96:76:::  
DROP=N5-4-3-2-VP49-VC1223,DROPPPL=N8-3-9-2-1235,  
DLTDROP=N5-4-3-2-VP48-VC1223,INTERNAL=VIDDROP;
```

Errors

This message generates all of the [Default Errors](#).

ED-CRS-VIDVC

Name

ED-CRS-VIDVC: Edit Cross Connect Video Virtual Circuit

Description

Category: Cross Connect **Security:** Memory Admin - by rate

This command provides for adding or removing a drop to or from an existing video VC cross connection.

Input Format

```
ED-CRS-VIDVC:[TID]:<SrcVcAid>,<DstVcAid>:[CTAG]:::  
IRCAID=<IrcAid>,[ [ARP=<ARP>,[ [DROP=<DROP>,[ [DROPPPL=<DROPPPL>,[  
[DLTDROP=<DLTDROP>,[ [INTERNAL=<INTERNAL>]];
```

Input Parameters

- SrcVcAid** Source (From) Access Identifier. The address of the source (from) endpoint of the cross-connect being edited. *SrcVcAid* is the AID [VidvcId](#).

DstVcAid	Destination (To) Access Identifier. This identifies address of the destination (to) endpoint of the cross-connect being modified. It does NOT indicate a new destination for the source identified. <i>DstVcAid</i> is the AID VidvcId .
IrcAid	The slot address of the IRC. <i>IrcAid</i> is the AID SlotLuAid .
ARP	ARP Enabled. This option is only valid on VCs with a traffic profile containing the IP application ID. If set to Y, the IRC will answer ARP requests on this VC, thus creating dynamic ARP entries. <i>ARP</i> is of type BoolYN .
DROP	DROP location. This parameter indicates the location where the cross-connect is to be dropped along the path to the endpoint. This is used in drop-and-continue applications. <i>DROP</i> is the AID VidvcId .
DROPPPL	Drop Path Protection Label. This parameter indicates the PPL association for the cross-connect drop end-point being added, if applicable. This parameter should only be used by expert users and requires the "allow restricted commands (ALW-CMD-RESTR)" option to be specified before it will be accepted by the system. <i>DROPPPL</i> is the AID PplId1 .
DLTDROP	DeLeTe DROP location. This parameter indicates the location where the cross-connect is no longer to be dropped along the path to the endpoint. This is used to delete a drop in drop-and-continue applications. <i>DLTDROP</i> is the AID VidvcId .
INTERNAL	Internal Cross Connects. If present, this parameter specifies the editing of otherwise hidden cross connects created internally by the C7. It is intended for use only by system experts or C7 support personnel. <i>INTERNAL</i> is of type InternalCrsTypes and is listable. The default value is "NONE".

Input Example

```
ED-CRS-VIDVC:SYS1:N1-1-2-3-1-VP1-VC100,N1-1-2-3-2-VP1-
VC100:CTAG:::
    IRCAID=N1-1-2 ,ARP=N,DROP=N1-1-4-2-1-VP1-VC100,DROPPPL=N8-3-9-
2-1235,
    DLTDROP=N1-1-4-2-1-VP1-VC100,INTERNAL=VIDDROP;
```

Errors

This message generates all of the [Default Errors](#).

ED-CRS-VP

Name

ED-CRS-VP: Edit Cross Connect Virtual Path

Description

Category: Cross Connect

Security: Memory Admin - by rate

This command provides for modifying the attributes of existing VP cross connections.

Defined in GR-199.

Related Messages:

[ACT-PROTN-VC](#)

[DLT-CRS-VC](#)

[DLT-PP](#)

[ED-CRS-VC](#)

[ENT-CRS-VC](#)

[ENT-PP](#)

[INIT-CSTAT-VC](#)

[INJ-LPBK-VC](#)

[MV-CRS-VC](#)

[OPR-CC-VC](#)

[REPT ALM PP](#)

[REPT EVT VC](#)

[REPT RMV PP](#)

[RLS-CC-VC](#)

[RMV-PP](#)

[RTRV-ALM-PP](#)

[RTRV-CRS-VC](#)

[RTRV-CSTAT-VC](#)

[RTRV-PP](#)

[RTRV-VTI](#)

[ACT-PROTN-VP](#)

[DLT-CRS-VP](#)

[DLT-PROF-TRF](#)

[ED-PROF-TRF](#)

[ENT-CRS-VP](#)

[ENT-PROF-TRF](#)

[INIT-CSTAT-VP](#)

[INJ-LPBK-VP](#)

[MV-CRS-VP](#)

[OPR-CC-VP](#)

[REPT EVT PP](#)

[REPT EVT VP](#)

[REPT RST PP](#)

[RLS-CC-VP](#)

[RST-PP](#)

[RTRV-COND-PP](#)

[RTRV-CRS-VP](#)

[RTRV-CSTAT-VP](#)

[RTRV-PROF-TRF](#)

Input Format

```
ED-CRS-VP:[TID]:<SrcVpAid>,<DstVpAid>:[CTAG]:::[ [DROP=<DROP>, ]
[DLTDROP=<DLTDROP>, ][DROPPPL=<DROPPPL>] ];
```

Input Parameters

SrcVpAid Source (From) Access Identifier. The address of the source (from) endpoint of the cross-connect being edited. *SrcVpAid* is the AID [VpAid](#).

DstVpAid Destination (To) Access Identifier. This identifies address of the destination (to) endpoint of the cross-connect being modified. It does NOT indicate a new destination for the source identified. *DstVpAid* is the AID [VpAid](#).

DROP DROP location. This parameter indicates the location where the cross-connect is to be dropped along the path to the endpoint. This is used in drop-and-continue applications. *DROP* is the AID [VpAid](#).

DLTDROP DeLeTe DROP location. This parameter indicates the location where the cross-connect is no longer to be dropped along the path to the endpoint. This is used to delete a drop in drop-and-continue applications. *DLTDROP* is the AID [VpAid](#).

DROPPPL Drop Path Protection Label. This parameter indicates the PPL association for the cross-connect drop end-point being added, if applicable. This parameter should only be used by expert users and requires the "allow restricted commands (ALW-CMD-RESTR)" option to be specified before it will be accepted by the system. *DROPPPL* is the AID [PplId1](#).

Input Example

```
ED-CRS-VP:SYS2:N4-5-5-1-VP49,N8-3-1-1-VP96:76:::DROP=N5-4-3-2-
VP49,
DLTDROP=N5-4-3-2-VP48,DROPPPL=N8-3-9-2-1235;
```

Errors

This message generates all of the [Default Errors](#).

ED-CVIDREG

Name

ED-CVIDREG: Edit CVIDREG

Description

Category: IP **Security:** Memory Admin - by rate

Not supported in release 6.0.

Related Messages:

[DLT-CVIDREG](#)
[DLT-MACHOST](#)
[DLT-VBPORT](#)
[DLT-VR](#)
[ED-IGMP](#)
[ED-VB](#)
[ED-VLAN-VBPORT](#)
[ENT-CVIDREG](#)
[ENT-MACHOST](#)
[ENT-VBPORT](#)
[ENT-VR](#)
[REPT ALM VB](#)
[REPT EVT VB](#)
[RTRV-ALM-VB](#)

[DLT-IGMP-JOIN](#)
[DLT-VB](#)
[DLT-VLAN-VBPORT](#)
[DLT-VRPORT](#)
[ED-MACHOST](#)
[ED-VBPORT](#)
[ED-VR](#)
[ENT-IGMP-JOIN](#)
[ENT-VB](#)
[ENT-VLAN-VBPORT](#)
[ENT-VRPORT](#)
[REPT ALM VR](#)
[REPT EVT VR](#)
[RTRV-ALM-VR](#)

[RTRV-CVIDREG](#)
[RTRV-IGMP-JOIN](#)
[RTRV-VB](#)
[RTRV-VLAN-VBPORT](#)
[RTRV-VRPORT](#)

[RTRV-IGMP](#)
[RTRV-MACHOST](#)
[RTRV-VBPORT](#)
[RTRV-VR](#)

Input Format

```
ED-CVIDREG:[ TID ]:<CVidRegAid>:[ CTAG ]:::[ PRIO=<PRIO> ];
```

Input Parameters

CVidRegAid *CVidRegAid* is the AID [CVidRegAid](#).

PRIO *PRIO* is of type [PrioBits](#).

Input Example

```
ED-CVIDREG:SYS:N2-1-VB3-5-4:123:::PRIO=2;
```

Errors

This message generates all of the [Default Errors](#).

ED-DAT

Name

ED-DAT: Edit Date and Time

Description

Category: System **Security:** System Administration

This command instructs the C7 network to change its system date and time to a given value.

The activation time of some pending commands may be skipped or repeated as a result of changing the system date or time of the C7 network. Appropriate actions should be taken to ensure the proper execution of these pending commands. Changing the system date and time may also result in corruption of performance monitoring data for one or more time periods.

Defined in GR-199.

Related Messages:

ALW-STBY-UPGRD	DLT-ALM-SHELF
DLT-NODE	ED-NODE
ED-SHELF	ED-SYS
ED-SYS-SECU	ENT-NODE
ENT-SHELF	INH-STBY-UPGRD
INIT-SYS	OPR-BAR
REPT ALM SHELF	REPT EVT MEM
REPT EVT SHELF	RTRV-ALM-SHELF
RTRV-BAR	RTRV-COND-SHELF
RTRV-HDR	RTRV-NETYPE
RTRV-NODE	RTRV-SHELF
RTRV-SYS	RTRV-SYS-SECU

Input Format

```
ED-DAT: [TID] :: [CTAG] :: [<DATE>], [<TIME>];
```

Input Parameters

DATE Date. Change the date of the C7 network to this value. DATE is the current date in a format of: [YY(YY)-]MM-DD, where YY is the last two digits of the year ranging from 00 to 99 (or YYYY is the full 4-digit representation of the current year; either format is acceptable), MM is the month of the year ranging from 01 to 12, and DD is the day of the month ranging from 01 to 31. If the year is omitted, it is interpreted as YY=0. *DATE* is a Date.

TIME Time. Change the time of the C7 network to this value. The time format is: HH-MM[-SS] where HH is the hour in a 24 hour format ranging from 00 to 23, MM is the minute ranging from 00 to 59, and SS is the second ranging from 00 to 59. If seconds are omitted, it is interpreted as SS=0. *TIME* is a Time.

Input Example

```
ED-DAT:SYS2::87::00-08-23,12-45-02;
```

Errors

This message generates all of the [Default Errors](#).

ED-DHCPSVR

Name

ED-DHCPSVR: Edit DHCPSVR

Description

Category: IP **Security:** Memory Admin - by rate

Edit DHCP Server - allows the user to enable or disable Option82.

Input Format

```
ED-
DHCPSVR:[TID]:<IP>:[CTAG]:::[RTRAID=<RTRAID>,][OPTION82=<OPTION82>]];
```

Input Parameters

IP IP Address of the DHCP Server. This is must match an existing DHCP Server address *IP* is the AID [IpAid](#).

RTRAID *RTRAID* is the AID [RouterAid](#).

OPTION82 DHCP Option 82 - This feature adds a unique identifier in the relay agent information option. *OPTION82* is of type [Option82](#).

Input Example

```
ED-DHCPSVR:SYS3:11.1.1.1:322:::RTRAID=N1-2-VR3,OPTION82=NONE;
```

Errors

This message generates all of the [Default Errors](#).

ED-DLPROF

Name

ED-DLPROF: Edit DLPROF

Description

Category: TDM Services **Security:** Memory Admin - full

The IDLC Data Link Profile represents the profile of the virtual data link connections (ie. the Layer 2

Connections identified by the SAPI). The profiles contain the values of the LAPD parameters at the RDT.

Defined by Calix and modeled after ED-rr in GR-199.

Related Messages:

[RTRV-DLPROF](#)

Input Format

```
ED-DLPROF:[TID]:<DLProfileAid>:[CTAG]:::[MAXIFRAME=<MAXIFRAME>, ]
[N200=<N200>, ][T200=<T200>, ][T203=<T203>]];
```

Input Parameters

DLProfileAid Data Link Profile Access Identifier. The address of the GR-303 data link profile entity. *DLProfileAid* is the AID [DLProfileAid](#).

MAXIFRAME Maximum Information Frames. This specifies the maximum number of information (I) frames that may be outstanding at Layer 2 using LAPD. *MAXIFRAME* is of type [MaxIFrames](#).

N200 N200. This specifies the maximum number of retransmissions for a frame at Layer 2 using LAPD. *N200* is of type [N200](#).

T200 T200. This specifies the maximum length of time in milliseconds that a data link layer entity will wait for acknowledgement of a transmitted frame. *T200* is of type [T200](#).

T203 T203. This specifies the maximum time in seconds that a data link is allowed to remain idle before verifying the path between the IDT and the RDT. *T203* is of type [T203](#).

Input Example

```
ED-DLPROF:SYS2:N3-4-IG16-
1:328:::MAXIFRAME=7,N200=3,T200=150,T203=30;
```

Errors

This message generates all of the [Default Errors](#).

ED-EC1

Name

ED-EC1: Edit EC1

Description

Category: EC1 Facility **Security:** Memory Admin - by rate

This command edits parameters associated with an EC1 card.

Related Messages:

[DLT-EC1](#)
[ED-GOS-EC1](#)
[ENT-GOS-EC1](#)
[OPR-LPBK-EC1](#)
[REPT EVT EC1](#)
[REPT RST EC1](#)
[RMV-EC1](#)
[RTRV-ALM-EC1](#)
[RTRV-EC1](#)
[RTRV-PM-EC1](#)

[DLT-GOS-EC1](#)
[ENT-EC1](#)
[INIT-REG-EC1](#)
[REPT ALM EC1](#)
[REPT RMV EC1](#)
[RLS-LPBK-EC1](#)
[RST-EC1](#)
[RTRV-COND-EC1](#)
[RTRV-GOS-EC1](#)

Input Format

```
ED-EC1:[TID]:<Ec1tAid>:[CTAG]:::[ [FEPM=<FEPM>, ][ALMPROF=<ALMPROF>, ]
[ SDBER=<SDBER>, ][SFBER=<SFBER>, ][GOS=<GOS>, ][LBO=<LBO>, ][DESC=<DESC>] ]:
[ <PST> , [ <SST> ] ;
```

Input Parameters

- Ec1tAid** Access Identifier. The address of the EC1 for which the parameters are being modified. *Ec1tAid* is the AID [TwelvePortLuAid](#).
- FEPM** Far End Performance Monitoring. When this parameter is set to "N", the Far End Performance Monitoring data is not collected. When retrieving Far End PM, the Monitored Values (MONVAL) field will contain '0' and the Validity (VLDTY) field will contain 'INVLD'. When this parameter is set to "Y", data collection for Far End Performance Monitoring is enabled. The default value is "N". *FEPM* is of type [BoolYN](#).
- ALMPROF** Alarm Profile. The set of alarm Notification codes to be associated with this entity. *ALMPROF* is the AID [AlmProfileAid](#).
- SDBER** Signal Degraded Bit Error Rate. The threshold value above which the Line's bit error rate constitutes a Degraded Signal. *SDBER* is of type [BitErrorRateSD](#).
- SFBER** Signal Failed Bit Error Rate. The threshold value above which the Line's bit error rate constitutes a Failed Signal. Only values of 3 and 4 are valid for EC1. *SFBER* is of type [BitErrorRateSF](#).
- GOS** Grade of service. This identifies the EC1 grade of service for performance monitoring (PM) which is applied to the EC1 port. *GOS* is the AID [GosAid](#).
- LBO** Line Build Out. *LBO* is a Integer.
- DESC** DESCription. A user-settable description field, up to 31 characters. *DESC* is a String.

- PST** Primary Service State. This is the service state which the user wants the entity to transition into. *PST* is of type [PrimaryStateChg](#).
- SST** Secondary Service State. The only secondary service state which is provisionable is SB. It only applies when the PST is OOS. *SST* is of type [SecondaryStateChgSB](#).

Input Example

```
ED-EC1:SYS1:N3-3-3-
3:435:::FEPM=Y,ALMPROF=AISCR,SDBER=6,SFBER=4,GOS=3,LBO=5,
DESC="DESCRIPTION":OOS,SB;
```

Errors

This message generates all of the [Default Errors](#).

ED-EQPT

Name

ED-EQPT: Edit Equipment

Description

Category: Equipment **Security:** Memory Admin - full

This command will change the attributes of a given type of equipment module or slot definition in a C7. In a common equipment slot, this command can be used to change equipment protection scheme, or place the unit out of service.

When changing the provisioned equipment type, only the following changes will be permitted:

1. RAP OC48LR -> RAP OC3/12/48 (any line rate is allowed)
2. RAP OC48LR -> RAP OC3/12 (line rate must be OC3 or OC12)
3. RAP OC3/12/48 -> RAP OC48LR (line rate must be OC48)
4. RAP OC3/12/48 -> RAP OC3/12 (line rate must be OC3 or OC12)
5. RAP OC3/12 -> RAP OC48LR (line rate must be OC48)
6. RAP OC3/12 -> RAP OC3/12/48 (any line rate is allowed)
7. the above conversions from RAP <-> RAP2 types (see note below)
8. T1X6 -> T1x6 A+T
9. OC48IR <-> OC48LR
10. RPOTSX24 -> RU2W-24
11. RPOTSX24 -> COMBOx24 (neighboring slot must be empty)
12. ADSLX24 -> COMBOx24 (neighboring slot must be empty)
13. ADSLX24 -> ADSL2+X24
14. DS3E-4P -> DS3-4P (if DS3E-4P is not a timing source)

15. GE-2P/FE-4P <-> GE-2P
16. AMP -> ATP

Notes on conversion between RAP and RAP2:

When both CSA and CSB in a shelf hold RAP2-OCx, equipment conversion to RAP-OCx is not allowed, although this is allowed if only one of CSA or CSB holds a RAP2.

Timing features supported only by RAP2 (External DS1, DS1INOUT, CCINDS1OUT, Line timing with CC OUT or DS1 OUT, Derived DS1 timing) are not supported unless both CSA and CSB hold RAP2 types.

Defined in GR-199.

Related Messages:

[ALW-SWDX-EQPT](#)

[ALW-SWTOWKG-EQPT](#)

[ENT-EQPT](#)

[INH-SWTOPROTN-EQPT](#)

[REPT ALM EQPT](#)

[REPT RMV EQPT](#)

[RMV-EQPT](#)

[RTRV-ALM-EQPT](#)

[RTRV-EQPT](#)

[SW-TOPROTN-EQPT](#)

[ALW-SWTOPROTN-EQPT](#)

[DLT-EQPT](#)

[INH-SWDX-EQPT](#)

[INH-SWTOWKG-EQPT](#)

[REPT EVT EQPT](#)

[REPT RST EQPT](#)

[RST-EQPT](#)

[RTRV-COND-EQPT](#)

[SW-DX-EQPT](#)

[SW-TOWKG-EQPT](#)

Input Format

```
ED-
EQPT:[TID]:<EqptAid>:[CTAG]::[<TYPE>]:[[PROTN=<PROTN>,][RVRTV=<RVRTV>,
[RNPRTY=<RNPRTY>,[PWR=<PWR>,[LINERATE=<LINERATE>,
[IMAIDLECELL=<IMAIDLECELL>,[UBRBWRES=<UBRBWRES>]]:[<PST>];
```

Input Parameters

EqptAid	Equipment Access Identifier. The address of the Equipment entity being modified. <i>EqptAid</i> is the AID EquipmentId .
TYPE	Equipment Type. This parameter identifies the type of equipment which can be plugged into the slot. The provisioned equipment type must be the exact equipment card type. Examples of card types are RPOTS-24, OC12-4-IR, etc. Note that if the equipment has provisioned services, the following conditions must be met in order to change the provisioned equipment type: 1) the equipment must be in either the MEA or UEQ state. In other words, the card must be physically changed before changing its provisioned value. 2) Only the conversions given in the table above are permitted by the system. 3) The card is not the active RAP. <i>TYPE</i> is of type EqptTypeProv .
PROTN	Protection Unit Access Identifier. This is the address of the equipment which is to provide protection for this card. If the equipment being modified is to provide protection for other cards in the system, then PROTN should be specified as the equipment's own address. The equipment providing protection must be provisioned

before the equipments that use it as their protection. This is an optional parameter on the ED-EQPT command and the value will not change if not provided. NONE should be specified to disable an existing protection configuration. *PROTN* is the AID [EquipmentId6](#).

RVRTV	Revertive. This parameter indicates if the protection requested is to be revertive or non-revertive. The parameter value can be either Y = revertive or N = non-revertive. This parameter is only applicable in a 1:1 protection scheme. In a 1:n protection scheme, the equipment protection is always revertive. RAP cards are always non-revertive and cannot be provisioned to be revertive. This is an optional parameter on the ED-EQPT command and the value will not change if not provided. This parameter is only applicable if this is the protection card unit. It is not provided when this is the protected card. <i>RVRTV</i> is of type BoolYN .
RNPRTY	Redundancy Priority. This parameter only applies in a 1:n protection scheme. It gives the priority of this working equipment versus other working equipment protected by the same protection card. Equipment given a smaller RNPRTY number will pre-empt any protection already in effect for equipment given a larger RNPRTY number. When equipment fails with the same RNPRTY number as the already protected equipment, no protection switch will occur. <i>RNPRTY</i> is of type ProtNPriority .
PWR	Power Category. The system shall minimize the power dissipation during power failure (battery backup). Following power failure the system needs to enter a power-save mode. Upon entering this mode, the C7 turns off the DSL cards. The period in which the system enters power-save mode after a power failure shall be a user provisioningable interval. To accomplish this task three power categories are created: Category 1 that do not get shut down during battery back up (AC power failure). Category 2 cards that get shut down after 2 hours. Category 3 card that get shut down after the period of time specified by PWRCAT3 (up to a maximum of 30 minutes - see ED-SHELF). The system defaults are that POTS, DS1, DS3, and optics are category 1 and ADSL are category 3. Presently, no Category 2 cards are supported. <i>PWR</i> is of type PowerCategory .
LINERATE	Line Rate. This parameter only applies when provisioning RAP-OC cards. This is the configurable line speed of the equipment. When decreasing the linerate, there can be no STS provisioned outside the acceptable range of the new rate. As well, the current packet bandwidth used by the port must not exceed the new maximum bandwidth. NOTE: The card will reboot if this parameter is changed when it has provisioned services! <i>LINERATE</i> is of type LineRate .
IMAIDLECELL	This indicates how IMA idle cells will be transmitted by all IMA groups on this card. <i>IMAIDLECELL</i> is of type ImaIdleCellType .
UBRBWRES	UBR BandWidth RESterved. Amount of backplane bandwidth reserved for UBR bandwidth by user in kbps. This parameter takes value of zero and values greater than or equal to 128 kbps. This is a restricted parameter and requires the "allow restricted commands (ALW-CMD-RESTR)" option to be specified before it will be accepted by the system. <i>UBRBWRES</i> is a Integer.
PST	Primary Service State. This is the service state which the user wants the equipment to transition into. The equipment can be put into service or out of service with the ED-EQPT command. <i>PST</i> is of type PrimaryStateChg .

Input Example

```
ED-EQPT:SYS3:N4-3-8:747::RAP-OC3/12/48:PROTN=N4-3-
10, RVRTV=Y, RNPRTY=3, PWR=1,
```

LINERATE=OC48 , IMAIDLECELL=IDLE , UBRBWRES=200:OOS ;

Errors

This message generates all of the [Default Errors](#).

ED-ETH

Name

ED-ETH: Edit Ethernet Port

Description

Category: Ethernet **Security:** Memory Admin - by rate

Changes an external ethernet port to the provided values.

Related Messages:

[DLT-AGG](#)

[DLT-AGG-ACL](#)

[DLT-AGG-PORT](#)

[DLT-ETH](#)

[DLT-ETH-ACL](#)

[DLT-GOS-ETH](#)

[DLT-LSWITCH](#)

[DLT-LSWITCH-PORT](#)

[DLT-PROF-ETH](#)

[DLT-VLAN](#)

[DLT-VLAN-PORT](#)

[DLT-VLAN-VBPORT](#)

[ED-GOS-ETH](#)

[ED-VLAN](#)

[ED-VLAN-PORT](#)

[ED-VLAN-VBPORT](#)

[ENT-AGG](#)

[ENT-AGG-ACL](#)

[ENT-AGG-PORT](#)

[ENT-ETH](#)

[ENT-ETH-ACL](#)

[ENT-GOS-ETH](#)

[ENT-LSWITCH](#)

[ENT-LSWITCH-PORT](#)

[ENT-PROF-ETH](#)

[ENT-VLAN](#)

[ENT-VLAN-PORT](#)

[ENT-VLAN-VBPORT](#)

[INIT-LSWITCH](#)

[INIT-STAT-ETH](#)

[REPT ALM ETH](#)

[REPT EVT ETH](#)

[REPT RMV ETH](#)

[REPT RST ETH](#)

[RMV-ETH](#)

[RST-ETH](#)

[RTRV-AGG](#)

[RTRV-AGG-ACL](#)

[RTRV-AGG-PORT](#)

[RTRV-ALM-ETH](#)

[RTRV-COND-ETH](#)

[RTRV-ETH](#)

[RTRV-ETH-ACL](#)
[RTRV-LSWITCH](#)
[RTRV-PM-ETH](#)
[RTRV-STAT-ETH](#)
[RTRV-VLAN-PORT](#)

[RTRV-GOS-ETH](#)
[RTRV-LSWITCH-PORT](#)
[RTRV-PROF-ETH](#)
[RTRV-VLAN](#)
[RTRV-VLAN-VBPORT](#)

Input Format

```
ED-ETH:[TID]:<EthPortAid>:[CTAG]:::[[SPD=<SPD>,[DPLX=<DPLX>,
[TAGGED=<TAGGED>,[MTU=<MTU>,[POLICE=<POLICE>,[LSREN=<LSREN>,
[VIDTXMODE=<VIDTXMODE>,[ENONBAT=<EONBAT>,[GOS=<GOS>,[DESC=<DESC>]]:
[<PST>,[<SST>];
```

Input Parameters

EthPortAid	Ethernet Access Identifier. <i>EthPortAid</i> is the AID EthId .
SPD	Speed. <i>SPD</i> is of type Speed .
DPLX	Duplex. <i>DPLX</i> is of type Duplex .
TAGGED	Tagged. <i>TAGGED</i> is of type BoolYN .
MTU	Max Transmission Unit. Varies by equipment type. GE-2P: Fixed at 1536. ONT : must be within [1518,1532], default 1532. GE-4S and FE-12S: must be within [1518, 9022], default 1522. <i>MTU</i> is of type Mtu .
POLICE	Policing. <i>POLICE</i> is of type BoolYN .
LSREN	LaSeR ENable - Laser On/Off. Applies to GE ports only. <i>LSREN</i> is of type BoolYN .
VIDTXMODE	For ONT ports, allows conversion of multicast video streams to unicast streams to the specific Set Top Boxes that have joined the associated stream. <i>VIDTXMODE</i> is of type OntEthVidTxMode .
EONBAT	For ONT ports, this parameter specifies the behavior the port when the ONT is running on battery backup, and overrides the default (ONTETHONBAT) specified by ED-SYS. <i>This feature is enabled in C7 release 5.2</i> <i>EONBAT</i> is of type OntPortPwrOpt .
GOS	<i>GOS</i> is the AID GosAid .
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String.
PST	Primary Service State. This is the service state which the user wants the entity to transition into. <i>PST</i> is of type PrimaryStateChg .
SST	Secondary Service State. The only secondary service state which is provisionable is SB. It only applies when the PST is OOS. <i>SST</i> is of type SecondaryStateChgSB .

Input Example

```
ED-ETH:SYS1:N3-4-1-
1:322:::SPD=AUTO,DPLX=AUTO,TAGGED=N,MTU=1522,POLICE=Y,
LSREN=Y,VIDTXMODE=MCAST,ENONBAT=USEDEF,GOS=3,DESC="DESCRIPTION":OOS,SB;
```

Errors

This message generates all of the [Default Errors](#).

ED-FFP-<OCN>

Name

ED-FFP-<[OCN](#)>: Edit Facilities Protection Group (OC12, OC3, OC48)

Description

Category: Protection Switching

Security: Memory Admin - by rate

This command provides for modification of an OCn facility protection group. It associates a protecting (alternate) facility with a protected (main/preferred) facility(s). It also provides for modifying attributes of the facility protection group.

The combination of BDCST, PSDIRN, MODE, and ORP parameters values indicate the type of protection being provided. The following table shows the protection provided based on the the combination of parameter values.

Protection	BDCST	PSDIRN	MODE	ORP
Linear 1+1 UNI	Y	UNI	OPEN	N
Ring UPSR	Y	UNI	CLOSED	N
Ring UPSR + packet aggregation	Y	UNI	CLOSED	Y
Linear 1+1 BI	Y	BI	OPEN	N
Linear 1:1 UNI	N	UNI	OPEN	N
Linear 1:1 BI	N	BI	OPEN	N

Defined in GR-199.

Related Messages:

[DLT-<OCN>](#)
[DLT-GOS-<OCN>](#)
[ED-GOS-<OCN>](#)
[ENT-FFP-<OCN>](#)
[INIT-REG-<OCN>](#)
[OPR-PROTNSW-<OCN>](#)

[DLT-FFP-<OCN>](#)
[ED-<OCN>](#)
[ENT-<OCN>](#)
[ENT-GOS-<OCN>](#)
[OPR-LPBK-<OCN>](#)
[REPT ALM <OCN>](#)

[REPT EVT <OCN>](#)
[REPT RST <OCN>](#)
[RLS-PROTNSW-<OCN>](#)
[RST-<OCN>](#)
[RTRV-ALM-<OCN>](#)
[RTRV-FFP-<OCN>](#)
[RTRV-PM-<OCN>](#)

[REPT RMV <OCN>](#)
[RLS-LPBK-<OCN>](#)
[RMV-<OCN>](#)
[RTRV-<OCN>](#)
[RTRV-COND-<OCN>](#)
[RTRV-GOS-<OCN>](#)

Input Format

```
ED-FFP-<OCN>:[TID]:<OcAid>:[CTAG]:::  

[[BDCST=<BDCST>,][PSDIRN=<PSDIRN>],[RVRTV=<RVRTV>],[PDIP=<PDIP>,  

[WTR=<WTR>],[APSOP=<APSOP>]];
```

Input Parameters

- OcAid** OCn Access Identifier. The address of a port which is either the working or the protection unit in the facility protection group. *OcAid* is the AID [FourPortLuAndRapAid](#).
- BDCST** Broadcast. This parameter is set to Y if the signal is to be broadcast over the protected (main) and the protecting (protection) channels simultaneously for a 1+1 protection scheme. It is set to N if the signal is only to be sent over the active channel. *BDCST* is of type [BoolYN](#).
- PSDIRN** Protection Switch Direction. Specifies whether both directions of a bi-directional connection are to be switched together. *PSDIRN* is of type [ProtSwDirection](#).
- RVRTV** Revertive. This parameter is set to Y if the traffic normally is to revert to working when the condition which triggered the switch to protection has cleared. This parameter is applicable in a 1:1 or 1+1 protection scheme. The parameter value can be either Y = revertive or N = non-revertive. *RVRTV* is of type [BoolYN](#).
- PDIP** Payload Defect Indication. This parameter indicates whether to switch on a PDI-P defect. This parameter is applicable only when MODE = CLOSED. *PDIP* is of type [BoolYN](#).
- WTR** Wait to Restore. The amount of time in minutes to wait before restoring a revertive protection switch. Does not apply to non-revertive protection switch. *WTR* is of type [WaitToRestore](#).
- APSOP** Automatic Protection Switch Operation. This parameter may be set to N to disable the execution of the Automatic Protection Switching (APS) protocol (processing of K-bytes). This option is useful for Ring Management when new Nodes are added/deleted in a BLSR which allows the ring maps to be updated for all the existing nodes in a ring. In the case of a Linear protection configuration, the addition/deletion of a new NE in an existing span will require that APS operation be temporarily turned off, while traffic re-configuration is in progress. NOTE: This parameter has been deprecated and will be ignored by the C7. *APSOP* is of type [BoolYN](#).

Input Example

```
ED-FFP-OC12:SYS56:N3-3-3-  

2:353::::BDCST=Y,PSDIRN=UNI,RVRTV=N,PDIP=Y,WTR=5,  

APSOP=N;
```

Errors

This message generates all of the [Default Errors](#).

ED-FPACC

Name

ED-FPACC: Edit Front Panel Access

Description

Category: Loop Testing **Security:** Testing

This command provides a mechanism for limiting test access via the front panel.

Defined by Calix.

Related Messages:

[CHG-SPLIT](#)

[CONN-LPACC-MET](#)

[CONN-TACC-MET](#)

[DISC-TACC](#)

[ED-TGRP](#)

[REPT-STAT](#)

[RTRV-TGRP](#)

[TST-ONT-MET](#)

[CONN-FPACC-MET](#)

[CONN-MON](#)

[DISC-FPACC-MET](#)

[DLT-TGRP](#)

[ENT-TGRP](#)

[RTRV-FPACC](#)

[TST-ITACC-MET](#)

Input Format

```
ED-FPACC:[TID]:<ShelfAid>:[CTAG]:::CHAP=<CHAP>;
```

Input Parameters

ShelfAid Shelf Access Identifier. The address of the shelf where the front panel is connected. *ShelfAid* is the AID [ShelfAid](#).

CHAP Channel Access Privileges. This parameter indicates the privileges for testing with the front panel. *CHAP* is of type [CidAccess](#).

Input Example

ED-FPACC:SYS3:N4-4:333:::CHAP=NOACC;

Errors

This message generates all of the [Default Errors](#).

ED-GOS-<OCN>

Name

ED-GOS-<[OCN](#)>: Edit Grade of Service (OC12, OC3, OC48)

Description

Category: Performance Monitoring

Security: Memory Admin - by rate

This command is used to set the threshold values for a set of performance parameters called a Grade of Service (GOS). The particular GOS being set is identified by the integer in the AID field of this command. To use the set, it is referenced by the GOS parameter of the appropriate ENT-rr or ED-rr command.

The GOS sets are shared by all shelves in a system. Separate GOS sets are maintained for each facility type so the number assigned to a GOS for one facility type may also be assigned to another facility type's GOS without conflict.

Defined in GR-199.

Related Messages:

[DLT-<OCN>](#)
[DLT-GOS-<OCN>](#)
[ED-FFP-<OCN>](#)
[ENT-FFP-<OCN>](#)
[INIT-REG-<OCN>](#)
[OPR-PROTNSW-<OCN>](#)
[REPT EVT <OCN>](#)
[REPT RST <OCN>](#)
[RLS-PROTNSW-<OCN>](#)
[RST-<OCN>](#)
[RTRV-ALM-<OCN>](#)
[RTRV-FFP-<OCN>](#)
[RTRV-PM-<OCN>](#)

[DLT-FFP-<OCN>](#)
[ED-<OCN>](#)
[ENT-<OCN>](#)
[ENT-GOS-<OCN>](#)
[OPR-LPBK-<OCN>](#)
[REPT ALM <OCN>](#)
[REPT RMV <OCN>](#)
[RLS-LPBK-<OCN>](#)
[RMV-<OCN>](#)
[RTRV-<OCN>](#)
[RTRV-COND-<OCN>](#)
[RTRV-GOS-<OCN>](#)

Input Format

```
ED-GOS-<OCN>:[TID]:<GosAid>:[CTAG]::  
<LOCN>,<TMPPER>:[ [CVL=<CVL> , ] [ESL=<ESL> , ] [SESL=<SESL> , ] [UASL=<UASL> , ]  
[CVS=<CVS> , ][ESS=<ESS> , ][SESS=<SESS> , ][SEFSS=<SEFSS> , ][DESC=<DESC> ] ];
```

Input Parameters

- GosAid** Grade of Service Access Identifier. The address of the STS12 Grade of Service table entry. *GosAid* is the AID [GosProvAid](#).
- LOCN** Location. Indicates whether the near end or far end Path PM registers are to be edited. Section PM registers are only kept in association with the near end. *LOCN* is of type [Location](#).
- TMPPER** Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. *TMPPER* is of type [PMPPeriod](#).
- CVL** Coding Violations Threshold Line. The threshold value for the coding violations for the line. The default threshold for 15-MIN is 25 and for 1-DAY is 250. *CVL* is of type [CVThreshRange](#).
- ESL** Errorred Seconds Threshold Line. The threshold value for the errored seconds for the line. The default threshold for 15-MIN is 12 and for 1-DAY is 200. *ESL* is of type [SecondsThreshRange](#).
- SESL** Severely Errorred Seconds Threshold Line. The threshold value for the severely errored seconds for the line. The default threshold for 15-MIN is 3 and for 1-DAY is 7. *SESL* is of type [SecondsThreshRange](#).
- UASL** Unavailable Seconds Threshold Line. The threshold value for the unavailable seconds for the line. The default threshold for 15-MIN is 10 and for 1-DAY is 10. *UASL* is of type [SecondsThreshRange](#).
- CVS** Coding Violations Threshold Section. The threshold value for the coding violations for the section. This parameter does not apply to far end provisioning. The default threshold for 15-MIN is 25 and for 1-DAY is 250. *CVS* is of type [CVThreshRange](#).
- ESS** Errorred Seconds Threshold Section. The threshold value for the errored seconds for the section. This parameter does not apply to far end provisioning. The default threshold for 15-MIN is 12 and for 1-DAY is 200. *ESS* is of type [SecondsThreshRange](#).
- SESS** Severely Errorred Seconds Threshold Section. The threshold value for the severely errored seconds for the section. This parameter does not apply to far end provisioning. The default threshold for 15-MIN is 3 and for 1-DAY is 7. This parameter does not apply to far end provisioning. *SESS* is of type [SecondsThreshRange](#).
- SEFSS** Severely Errorred Framing Seconds Threshold Section. The threshold value for the severely errored framing seconds for the section. This parameter does not apply to far end provisioning. Default threshold for 15-MIN interval and 1-DAY interval is 10. *SEFSS* is of type [SecondsThreshRange](#).
- DESC** A string description of this object, up to 11 characters in length. *DESC* is a String.

Input Example

```
ED-GOS-OC12:SYS1:3:324::NEND,15-  
MIN:CVL=5,ESL=5,SESL=5,UASL=5,CVS=2,ESS=5,  
SESS=5,SEFSS=3,DESC=DESC;
```

Errors

This message generates all of the [Default Errors](#).

ED-GOS-<STSN>

Name

ED-GOS-<[STSN](#)>: Edit Grade of Service (STS1, STS12C, STS3C, STS48C)

Description

Category: Performance Monitoring

Security: Memory Admin - by rate

This command is used to set the threshold values for a set of performance parameters called a Grade of Service (GOS). The particular GOS being set is identified by the integer in the AID field of this command. To use the set, it is referenced by the GOS parameter of the appropriate ENT-rr or ED-rr command.

The GOS sets are shared by all shelves in a system. Separate GOS sets are maintained for each facility type so the number assigned to a GOS for one facility type may also be assigned to another facility type's GOS without conflict.

Defined in GR-199.

Related Messages:

[DLT-<STSN>](#)
[DLT-GOS-<STSN>](#)
[ED-CRS-<STSN>](#)
[ENT-CRS-<STSN>](#)
[INIT-REG-<STSN>](#)
[REPT ALM <STSN>](#)
[REPT RMV <STSN>](#)
[RLS-PROTNSW-<STSN>](#)
[RST-<STSN>](#)
[RTRV-ALM-<STSN>](#)
[RTRV-CRS-<STSN>](#)
[RTRV-PM-<STSN>](#)

[DLT-CRS-<STSN>](#)
[ED-<STSN>](#)
[ENT-<STSN>](#)
[ENT-GOS-<STSN>](#)
[OPR-PROTNSW-<STSN>](#)
[REPT EVT <STSN>](#)
[REPT RST <STSN>](#)
[RMV-<STSN>](#)
[RTRV-<STSN>](#)
[RTRV-COND-<STSN>](#)
[RTRV-GOS-<STSN>](#)

Input Format

ED-GOS-< STSN > : [TID] : <GosAid> : [CTAG] : :

```
<LOCN> , <TMPPER> : [ [ CVP=<CVP> , ] [ ESP=<ESP> , ] [ SESP=<SESP> , ] [ UASP=<UASP> , ]
[ PERUPE=<PERUPE> , ] [ DESC=<DESC> ] ] ;
```

Input Parameters

- GosAid** Grade of Service Access Identifier. The address of the STS1 Grade of Service table entry. *GosAid* is the AID [GosProvAid](#).
- LOCN** Location. Indicates whether the near end or far end PM registers are being edited. *LOCN* is of type [Location](#).
- TMPPER** Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. *TMPPER* is of type [PMPeriod](#).
- CVP** Coding Violations Threshold Path. The threshold value for the coding violations for the path. *CVP* is of type [CVThreshRange](#).
- ESP** Errored Seconds Threshold Path. The threshold value for the errored seconds for the path. *ESP* is of type [SecondsThreshRange](#).
- SESP** Severely Errored Seconds Threshold Path. The threshold value for the severely errored seconds for the path. *SESP* is of type [SecondsThreshRange](#).
- UASP** Un-Available seconds path. This is the threshold value for the un-available seconds for the path. *UASP* is of type [SecondsThreshRange](#).
- PERUPE** Percent Utilization - Path, Egress. *PERUPE* is of type [Percentage](#).
- DESC** A string description of this object, up to 11 characters in length. *DESC* is a String.

Input Example

```
ED-GOS-STS1:SYS1:3:324::NEND,15-
MIN:CVP=10,ESP=15,SESP=10,UASP=5,PERUPE=85,
DESC=DESC;
```

Errors

This message generates all of the [Default Errors](#).

ED-GOS-ADSL

Name

ED-GOS-ADSL: Edit Grade of Service Asymmetric Digital Subscriber Line

Description

Category: Performance Monitoring**Security:** Memory Admin - by rate

This command is used to set the threshold values for a set of performance parameters called a Grade of Service (GOS). The particular GOS being set is identified by the integer in the AID field of this command. To use the set, it is referenced by the GOS parameter of the appropriate ENT-rr or ED-rr command.

The GOS sets are shared by all shelves in a system. Separate GOS sets are maintained for each facility type so the number assigned to a GOS for one facility type may also be assigned to another facility type's GOS without conflict.

Defined in GR-199.

Related Messages:

[DLT-ADSL](#)
[DLT-TMPLT-ADSL](#)
[ENT-ADSL](#)
[ENT-TMPLT-ADSL](#)
[INIT-PWR-ADSL](#)
[REPT ALM ADSL](#)
[REPT RMV ADSL](#)
[RMV-ADSL](#)
[RTRV-ADSL](#)
[RTRV-COND-ADSL](#)
[RTRV-GOS-ADSL](#)
[RTRV-TMPLT-ADSL](#)

[DLT-GOS-ADSL](#)
[ED-ADSL](#)
[ENT-GOS-ADSL](#)
[INIT-ADSL](#)
[INIT-REG-ADSL](#)
[REPT EVT ADSL](#)
[REPT RST ADSL](#)
[RST-ADSL](#)
[RTRV-ALM-ADSL](#)
[RTRV-CSTAT-ADSL](#)
[RTRV-PM-ADSL](#)

Input Format

```
ED-GOS-ADSL:[TID]:<GosAid>:[CTAG]::<LOCN>,<TMPER>:[ [ CVFL=<CVFL>, ]  

[ CVIL=<CVIL>, ][ ECFL=<ECFL>, ][ ECIL=<ECIL>, ][ ECSL=<ECSL>, ][ ESL=<ESL>, ]  

[ SESL=<SESL>, ][ UASL=<UASL>, ][ LOSSL=<LOSSL>, ][ PERU=<PERU>, ][ PERUE=<PERUE>, ]  

[ LOSC=<LOSC>, ][ DESC=<DESC> ] ];
```

Input Parameters

GosAid Grade of Service Access Identifier. The address of the ADSL Grade of Service table entry. *GosAid* is the AID [GosProvAid](#).

LOCN Location. Indicates whether the near end or far end PM registers are being edited. *LOCN* is of type [Location](#).

TMPER Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. *TMPER* is of type [PMPPeriod](#).

CVFL Coding violations fast - line. The threshold value for the coding violations fast for the line. The default threshold for 15-MIN is 25 and for 1-DAY is 250. *CVFL* is of type [CVAdslThreshRange](#).

CVIL Coding violations interleaved - line. The threshold value for the coding violations interleaved for the line. The default threshold for 15-MIN is 25 and for 1-DAY is 250. *CVIL* is of type

[CVAdslThreshRange.](#)

- ECFL** Forward error correction count fast - line. The threshold value for the forward error correction count fast for the line. The default threshold for 15-MIN is 10 and for 1-DAY is 100. *ECFL* is of type [ECThreshRange](#).
- ECIL** Forward error correction count interleaved - line. The threshold value for the forward error correction count interleaved for the line. The default threshold for 15-MIN is 10 and for 1-DAY is 100. *ECIL* is of type [ECThreshRange](#).
- ECSL** Forward error correction count second - line. The threshold value for the forward error correction count second for the line. The default threshold for 15-MIN is 10 and for 1-DAY is 100. *ECSL* is of type [SecondsThreshRange](#).
- ESL** Errorred seconds - line. The threshold value for the errored seconds for the line. The default threshold for 15-MIN is 65 and for 1-DAY is 648. *ESL* is of type [SecondsThreshRange](#).
- SESL** Severely errored seconds - line. The threshold value for the severely errored seconds for the line. The default threshold for 15-MIN is 10 and for 1-DAY is 100. *SESL* is of type [SecondsThreshRange](#).
- UASL** Unavailable Seconds Threshold Line. The threshold value for the unavailable seconds for the line. The default threshold for 15-MIN is 65 and for 1-DAY is 65. *UASL* is of type [SecondsThreshRange](#).
- LOSSL** LOS Seconds Threshold Line. The threshold value for the LOS seconds for the line. The default threshold for 15-MIN is 10 and for 1-DAY is 10. *LOSSL* is of type [SecondsThreshRange](#).
- PERU** Percent Utilization, Ingress (Near End only). The default threshold for 15-MIN is 85 and for 1-DAY is 85. *PERU* is of type [Percentage](#).
- PERUE** Percent Utilization, Egress (Near End only). The default threshold for 15-MIN is 85 and for 1-DAY is 85. *PERUE* is of type [Percentage](#).
- LOSC** Loss of Signal Count (Near End only). This indicates the number of times a LOS condition was set, and also represents the number of modem retrains in the time period. The default threshold for 15-MIN is 3 and for 1-DAY is 10. *LOSC* is a Integer.
- DESC** A string description of this object, up to 11 characters in length. *DESC* is a String.

Input Example

```
ED-GOS-ADSL:SYS1:3:324::NEND,15-
MIN:CVFL=3,CVIL=5,ECFL=5,ECIL=6,ECSL=8,ESL=8,
SESL=5,UASL=5,LOSSL=30,PERU=85,PERUE=85,LOSC=3,DESC=DESC;
```

Errors

This message generates all of the [Default Errors](#).

ED-GOS-AP

Name

ED-GOS-AP: Edit Grade of Service ATM Resource Port

Description

Category: Performance Monitoring

Security: Memory Admin - by rate

This command is used to set the threshold values for a set of performance parameters called a Grade of Service (GOS). The particular GOS being set is identified by the integer in the AID field of this command. To use the set, it is referenced by the GOS parameter of the appropriate ENT-rr or ED-rr command.

The GOS sets are shared by all shelves in a system. Separate GOS sets are maintained for each facility type so the number assigned to a GOS for one facility type may also be assigned to another facility type's GOS without conflict.

Related Messages:

[DLT-AP](#)

[DLT-AP-T1](#)

[DLT-GOS-AP](#)

[DLT-GOS-IMA](#)

[DLT-GOS-IMALINK](#)

[DLT-IMA](#)

[DLT-IMA-PORT](#)

[ED-AP](#)

[ED-GOS-IMA](#)

[ED-GOS-IMALINK](#)

[ED-IMA](#)

[ENT-AP](#)

[ENT-AP-T1](#)

[ENT-GOS-AP](#)

[ENT-GOS-IMA](#)

[ENT-GOS-IMALINK](#)

[ENT-IMA](#)

[ENT-IMA-PORT](#)

[INIT-REG-AP](#)

[INIT-REG-IMA](#)

[INIT-REG-IMALINK](#)

[REPT ALM AP](#)

[REPT ALM IMA](#)

[REPT ALM IMALINK](#)

[REPT EVT AP](#)

[REPT EVT IMA](#)

[REPT EVT IMALINK](#)

[REPT RMV AP](#)

[REPT RST AP](#)

[RMV-AP](#)

[RMV-IMA](#)

[RST-AP](#)

[RST-IMA](#)

[RTRV-ALM-AP](#)

[RTRV-ALM-IMA](#)

[RTRV-ALM-IMALINK](#)

[RTRV-AP](#)

[RTRV-COND-AP](#)

[RTRV-COND-IMA](#)

[RTRV-GOS-AP](#)

[RTRV-GOS-IMA](#)

[RTRV-GOS-IMALINK](#)

[RTRV-IMA](#)

[RTRV-PM-AP](#)

[RTRV-PM-IMA](#)

[RTRV-PM-IMALINK](#)

Input Format



```

ED-GOS-AP:[TID]:<GosAid>:[CTAG]::<LOCN>, <TMPER>:[ [ PERUP=<PERUP>, ]
[ PERUPE=<PERUPE>, ] [ IVIMA=<IVIMA>, ] [ OIFIMA=<OIFIMA>, ] [ SESIMA=<SESIMA>, ]
[ UASIMA=<UASIMA>, ] [ TXUUSIMA=<TXUUSIMA>, ] [ RXUUSIMA=<RXUUSIMA>, ]
[ TXFC=<TXFC>, ] [ RXFC=<RXFC>, ] [ TXSTUFFIMA=<TXSTUFFIMA>, ]
[ RXSTUFFIMA=<RXSTUFFIMA>, ] [ DESC=<DESC> ] ;

```

Input Parameters

GosAid	<i>GosAid</i> is the AID GosProvAid .
LOCN	Location. This parameter indicates whether the near end or far end PM threshold values are being provisioned. <i>LOCN</i> is of type Location .
TMPER	Time Period. This parameter specifies the accumulation time period for the PM information. <i>TMPER</i> is of type PMPeriod .
PERUP	Percent Utilization - Path, Ingress (Near End only). <i>PERUP</i> is of type Percentage .
PERUPE	Percent Utilization - Path, Egress (Near End only). <i>PERUPE</i> is of type Percentage .
IVIMA	ICP Violations. Count of errored, invalid, or missing ICP cells, except during seconds where a SES-IMA or UAS-IMA condition is reported (Near End only). <i>IVIMA</i> is of type SecondsThreshRange .
OIFIMA	Out of IMA Frame (Near End only). Count of OIF anomalies except during SES-IMA or UAS-IMA conditions. <i>OIFIMA</i> is of type SecondsThreshRange .
SESIMA	Severely Errored Seconds. Count of 1-second intervals containing $\geq 30\%$ of the ICP cells counted as IV-IMAs, or one or more near-end link defects (facility, LIF, or LODS) during non-UAS-IMA intervals. The number of IV-IMA counts required to meet the 30% criteria will depend on the facility line rate and the IMA frame size (M). <i>SESIMA</i> is of type SecondsThreshRange .
UASIMA	Unavailable seconds at NE. The NE unavailability begins at the onset of 10 contiguous SES-IMA including the first 10 seconds to enter the UAS-IMA condition, and ends at the onset of 10 contiguous second with no SES-IMA, excluding the last 10 seconds to exit the UAS-IMA condition. <i>UASIMA</i> is of type SecondsThreshRange .
TXUUSIMA	Transit Unusable Seconds (Near End only). Count of Tx Unusable seconds at the Tx NE Link State Machine (LSM). <i>TXUUSIMA</i> is of type SecondsThreshRange .
RXUUSIMA	Receive Unusable Seconds (Near End only). Count of Rx Unusable seconds at the Rx NE LSM. <i>RXUUSIMA</i> is of type SecondsThreshRange .
TXFC	Transit Failure Count. Count of the number of NE Transmit Link failure alarm entrances. The possible NE Tx link failure alarm conditions are: Tx-Mis-Connected and Tx-Fault. <i>TXFC</i> is of type SecondsThreshRange .
RXFC	Receive Failure Count. Count of the number of NE Receive Link failure alarm entrances. The possible NE Rx link failure alarm conditions are: LIF, LODS, and Rx-Fault. <i>RXFC</i> is of type SecondsThreshRange .
TXSTUFFIMA	Transmit Stuff Events (Near End only). Count of stuff events inserted in the transmitted direction. <i>TXSTUFFIMA</i> is of type ImaLinkStuff .
RXSTUFFIMA	Receive Stuff Events (Near End only). Count of stuff events inserted in the receive direction, except during SES-IMA and UAS-IMA conditions. <i>RXSTUFFIMA</i> is of type ImaLinkStuff .
DESC	A string description of this object, up to 11 characters in length. <i>DESC</i> is a String.

Input Example

```
ED-GOS-AP:SYS1:3:324::NEND,15-MIN:PERUP=85,PERUPE=85,IVIMA=100,OIFIMA=100,
SESIMA=100,UASIMA=10,TXUUSIMA=10,RXUUSIMA=10,TXFC=50,RXFC=50,TXSTUFFIMA=50,
RXSTUFFIMA=50,DESC="AP GOS 3";
```

Errors

This message generates all of the [Default Errors](#).

ED-GOS-EC1

Name

ED-GOS-EC1: Edit Grade of Service Electrical Carrier

Description

Category: Performance Monitoring **Security:** Memory Admin - by rate

This command is used to set the threshold values for a set of performance parameters called a Grade of Service (GOS). The particular GOS being set is identified by the integer in the AID field of this command. To use the set, it is referenced by the GOS parameter of the appropriate ENT-rr or ED-rr command.

The GOS sets are shared by all shelves in a system. Separate GOS sets are maintained for each facility type so the number assigned to a GOS for one facility type may also be assigned to another facility type's GOS without conflict.

Related Messages:

[DLT-EC1](#)
[ED-EC1](#)
[ENT-GOS-EC1](#)
[OPR-LPBK-EC1](#)
[REPT EVT EC1](#)
[REPT RST EC1](#)
[RMV-EC1](#)
[RTRV-ALM-EC1](#)
[RTRV-EC1](#)
[RTRV-PM-EC1](#)

[DLT-GOS-EC1](#)
[ENT-EC1](#)
[INIT-REG-EC1](#)
[REPT ALM EC1](#)
[REPT RMV EC1](#)
[RLS-LPBK-EC1](#)
[RST-EC1](#)
[RTRV-COND-EC1](#)
[RTRV-GOS-EC1](#)

Input Format

```
ED-GOS-
EC1:[TID]:<GosAid>:[CTAG]::<LOCN>,<TMPPER>:[ [CVL=<CVL>,[ESL=<ESL>,
[SESL=<SESL>,[UASL=<UASL>,[CVS=<CVS>,[ESS=<ESS>,[SESS=<SESS>,
[SEFSS=<SEFSS>,[DESC=<DESC>];
```

Input Parameters

- GosAid** Grade of Service Access Identifier. The address of the EC1 Grade of Service table entry. *GosAid* is the AID [GosProvAid](#).
- LOCN** Location. Indicates whether the near end or far end Path PM registers are to be edited. Section PM registers are only kept in association with the near end. *LOCN* is of type [Location](#).
- TMPPER** Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. *TMPPER* is of type [PMPPeriod](#).
- CVL** Coding Violations Threshold Line. The threshold value for the coding violations for the line. *CVL* is of type [CVThreshRange](#).
- ESL** Errored Seconds Threshold Line. The threshold value for the errored seconds for the line. *ESL* is of type [SecondsThreshRange](#).
- SESL** Severely Errored Seconds Threshold Line. The threshold value for the severely errored seconds for the line. *SESL* is of type [SecondsThreshRange](#).
- UASL** Unavailable Seconds Threshold Line. The threshold value for the unavailable seconds for the line. *UASL* is of type [SecondsThreshRange](#).
- CVS** Coding Violations Threshold Section. The threshold value for the coding violations for the section. This parameter does not apply to far end provisioning. *CVS* is of type [CVThreshRange](#).
- ESS** Errored Seconds Threshold Section. The threshold value for the errored seconds for the section. This parameter does not apply to far end provisioning. *ESS* is of type [SecondsThreshRange](#).
- SESS** Severely Errored Seconds Threshold Section. The threshold value for the severely errored seconds for the section. This parameter does not apply to far end provisioning. *SESS* is of type [SecondsThreshRange](#).
- SEFSS** Severely Errored Framing Seconds Threshold Section. The threshold value for the severely errored framing seconds for the section. This parameter does not apply to far end provisioning. *SEFSS* is of type [SecondsThreshRange](#).
- DESC** A string description of this object, up to 11 characters in length. *DESC* is a String.

Input Example

```
ED-GOS-EC1:SYS1:3:324::NEND,15-
MIN:CVL=5,ESL=5,SESL=5,UASL=5,CVS=2,ESS=5,
SESS=5,SEFSS=3,DESC=DESC;
```

Errors

This message generates all of the [Default Errors](#).

ED-GOS-ETH

Name

ED-GOS-ETH: Edit Grade of Service Ethernet Port

Description

Category: Performance Monitoring

Security: Memory Admin - by rate

This command is used to set the threshold values for a set of performance parameters called a Grade of Service (GOS). The particular GOS being set is identified by the integer in the AID field of this command. To use the set, it is referenced by the GOS parameter of the appropriate ENT-rr or ED-rr command.

The GOS sets are shared by all shelves in a system. Separate GOS sets are maintained for each facility type so the number assigned to a GOS for one facility type may also be assigned to another facility type's GOS without conflict.

Only NEND counters are supported.

Defined in GR-199. *This command is not available in release 5.1*

Related Messages:

[DLT-AGG](#)
[DLT-AGG-PORT](#)
[DLT-ETH-ACL](#)
[DLT-LSWITCH](#)
[DLT-PROF-ETH](#)
[DLT-VLAN-PORT](#)
[ED-ETH](#)
[ED-VLAN-PORT](#)
[ENT-AGG](#)
[ENT-AGG-PORT](#)
[ENT-ETH-ACL](#)
[ENT-LSWITCH](#)
[ENT-PROF-ETH](#)
[ENT-VLAN-PORT](#)
[INIT-LSWITCH](#)
[REPT ALM ETH](#)
[REPT RMV ETH](#)
[RMV-ETH](#)
[RTRV-AGG](#)

[DLT-AGG-ACL](#)
[DLT-ETH](#)
[DLT-GOS-ETH](#)
[DLT-LSWITCH-PORT](#)
[DLT-VLAN](#)
[DLT-VLAN-VBPORT](#)
[ED-VLAN](#)
[ED-VLAN-VBPORT](#)
[ENT-AGG-ACL](#)
[ENT-ETH](#)
[ENT-GOS-ETH](#)
[ENT-LSWITCH-PORT](#)
[ENT-VLAN](#)
[ENT-VLAN-VBPORT](#)
[INIT-STAT-ETH](#)
[REPT EVT ETH](#)
[REPT RST ETH](#)
[RST-ETH](#)
[RTRV-AGG-ACL](#)

[RTRV-AGG-PORT](#)
[RTRV-COND-ETH](#)
[RTRV-ETH-ACL](#)
[RTRV-LSWITCH](#)
[RTRV-PM-ETH](#)
[RTRV-STAT-ETH](#)
[RTRV-VLAN-PORT](#)

[RTRV-ALM-ETH](#)
[RTRV-ETH](#)
[RTRV-GOS-ETH](#)
[RTRV-LSWITCH-PORT](#)
[RTRV-PROF-ETH](#)
[RTRV-VLAN](#)
[RTRV-VLAN-VBPORT](#)

Input Format

```
ED-GOS-
ETH:[ TID ]:<GosAid>:[ CTAG ]::<LOCN>, <TMPER>:[ [ FCSERROR=<FCSERROR>, ]
[ XSCOLL=<XSCOLL>, ][ LATECOLL=<LATECOLL>, ][ TOOLONG=<TOOLONG>, ]
[ INBUFOVFL=<INBUFOVFL>, ][ OUTBUFOVFL=<OUTBUFOVFL>, ][ SQETEST=<SQETEST>, ]
[ DEFERRED=<DEFERRED>, ][ ALIGNERR=<ALIGNERR>, ][ RXINTERR=<RXINTERR>, ]
[ DESC=<DESC> ] ;
```

Input Parameters

GosAid	<i>GosAid</i> is the AID GosProvAid .
LOCN	Location. This parameter indicates whether the near end or far end PM threshold values are being provisioned. <i>LOCN</i> is of type Location and can be one of the following values: "NEND".
TMPER	Time Period. This parameter specifies the accumulation time period for the PM information. <i>TMPER</i> is of type PMPeriod .
FCSERROR	FCS Error Counter. <i>FCSERROR</i> is a Integer.
XSCOLL	Excessive Collision Counter. <i>XSCOLL</i> is a Integer.
LATECOLL	Late Collision Counter. <i>LATECOLL</i> is a Integer.
TOOLONG	FrameTooLongs. <i>TOOLONG</i> is a Integer.
INBUFOVFL	Buffer Overflows on Receive. <i>INBUFOVFL</i> is a Integer.
OUTBUFOVFL	Buffer Overflows on Transmit. <i>OUTBUFOVFL</i> is a Integer.
SQETEST	SQE Counter. <i>SQETEST</i> is a Integer.
DEFERRED	Deferred Transmission Counter. <i>DEFERRED</i> is a Integer.
ALIGNERR	Alignment Error Counter. <i>ALIGNERR</i> is a Integer.
RXINTERR	Internal MAC Receive Error Counter. <i>RXINTERR</i> is a Integer.
DESC	A string description of this object, up to 11 characters in length. <i>DESC</i> is a String.

Input Example

```
ED-GOS-ETH:SYS1:3:324::NEND,15-
MIN:FCSERROR=2,XSCOLL=2,LATECOLL=2,TOOLONG=2,
INBUFOVFL=2,OUTBUFOVFL=2,SQETEST=3,DEFERRED=2,ALIGNERR=2,RXINTERR=2,
DESC="ETH GOS 3";
```

Errors

This message generates all of the [Default Errors](#).

ED-GOS-HDSL

Name

ED-GOS-HDSL: Edit Grade of Service High bit rate Digital Subscriber Line

Description

Category: Performance Monitoring

Security: Memory Admin - by rate

This command is used to set the threshold values for a set of performance parameters called a Grade of Service (GOS). The particular GOS being set is identified by the integer in the AID field of this command. To use the set, it is referenced by the GOS parameter of the appropriate ENT-rr or ED-rr command.

The GOS sets are shared by all shelves in a system. Separate GOS sets are maintained for each facility type so the number assigned to a GOS for one facility type may also be assigned to another facility type's GOS without conflict.

Defined in GR-199.

Related Messages:

[DLT-GOS-HDSL](#)

[DLT-HDSL](#)

[ED-HDSL](#)

[ENT-GOS-HDSL](#)

[ENT-HDSL](#)

[INIT-HDSL](#)

[INIT-REG-HDSL](#)

[OPR-LPBK-HDSL](#)

[REPT ALM HDSL](#)

[REPT EVT HDSL](#)

[REPT RMV HDSL](#)

[REPT RST HDSL](#)

[RLS-LPBK-HDSL](#)

[RMV-HDSL](#)

[RST-HDSL](#)

[RTRV-ALM-HDSL](#)

[RTRV-COND-HDSL](#)

[RTRV-CSTAT-HDSL](#)

[RTRV-GOS-HDSL](#)

[RTRV-HDSL](#)

[RTRV-HTU](#)

[RTRV-PM-HDSL](#)

Input Format

```
ED-GOS-
HDSL:[TID]:<GosAid>:[CTAG]::<LOCN>,<TMPER>:[ [ CVP=<CVP> , ][ ESP=<ESP> , ]
[ SESP=<SESP> , ][ CSSP=<CSSP> , ][ UASP=<UASP> , ][ CVL=<CVL> , ][ ESL=<ESL> , ]
[ SESL=<SESL> , ][ LOSWSL=<LOSWSL> , ][ UASL=<UASL> , ][ RTRN=<RTRN> , ][ DESC=<DESC> ] ]
```

;

Input Parameters

GosAid	Grade of Service Access Identifier. The address of the DS1 Grade of Service table entry. <i>GosAid</i> is the AID GosProvAid .
LOCN	Location. Indicates whether the near end or far end PM registers are being edited. <i>LOCN</i> is of type Location .
TMPER	Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. <i>TMPER</i> is of type PMPeriod .
CVP	Coding Violations Threshold Path. The threshold value for the coding violations for the path. The default threshold for 15-MIN is 13,296 and for 1-DAY is 132,960. <i>CVP</i> is of type CVThreshRange .
ESP	Errored Seconds Threshold Path. The threshold value for the errored seconds for the path. The default threshold for 15-MIN is 65 and for 1-DAY is 648. <i>ESP</i> is of type SecondsThreshRange .
SESP	Severely Errored Seconds Threshold Path. The threshold value for the severely errored seconds for the path. The default threshold for 15-MIN is 10 and for 1-DAY is 100. <i>SESP</i> is of type SecondsThreshRange .
CSSP	Controlled Slip Seconds Path. The threshold value for the controlled slip seconds path. The default threshold for 15-MIN is 1 and for 1-DAY is 4. <i>CSSP</i> is of type SecondsThreshRange .
UASP	Unavailable Seconds Threshold Path. The threshold value for the unavailable seconds for the path. The default threshold for 15-MIN is 10 and for 1-DAY is 10. <i>UASP</i> is of type SecondsThreshRange .
CVL	Coding Violations Threshold Line. The threshold value for the coding violations for the line (Near End only). The default threshold for 15-MIN is 13,340 and for 1-DAY is 133,400. <i>CVL</i> is of type CVThreshRange .
ESL	Errored Seconds Threshold Line. The threshold value for the errored seconds for the line (Near End only). The default threshold for 15-MIN is 65 and for 1-DAY is 648. <i>ESL</i> is of type SecondsThreshRange .
SESL	Severely Errored Seconds Threshold Line. The threshold value for the severely errored seconds for the line(Near End only). The default threshold for 15-MIN is 10 and for 1-DAY is 100. <i>SESL</i> is of type SecondsThreshRange .
LOSWSL	Loss of Sync Word Seconds Line (Near End). The default threshold for 15-MIN is 30 seconds and for 1-DAY is 120 seconds. <i>LOSWSL</i> is of type SecondsThreshRange .
UASL	Unavailable Seconds Threshold Line. The threshold value for the unavailable seconds for the line. The default threshold for 15-MIN is 60 seconds and for 1-DAY is 120 seconds. <i>UASL</i> is of type SecondsThreshRange .
RTRN	ReTRaiN count (Near End only). The threshold value for number of retrains on either loop (individually). The default threshold for 15-MIN is 3 retrains and for 1-DAY is 10 retrains <i>RTRN</i> is a Integer.
DESC	A string description of this object, up to 11 characters in length. <i>DESC</i> is a String.

Input Example

```
ED-GOS-HDSL:SYS1:3:246::NEND,15-
MIN:CVP=13296,ESP=65,SESP=10,CSSP=123,UASP=10,
CVL=123,ESL=123,SESL=123,LOSWSL=123,UASL=123,RTRN=3,DESC=" 3 ";
```

Errors

This message generates all of the [Default Errors](#).

ED-GOS-IMA

Name

ED-GOS-IMA: Edit Grade of Service IMA

Description

Category: Performance Monitoring

Security: Memory Admin - by rate

This command is used to set the threshold values for a set of performance parameters called a Grade of Service (GOS). The particular GOS being set is identified by the integer in the AID field of this command. To use the set, it is referenced by the GOS parameter of the appropriate ENT-rr or ED-rr command.

The GOS sets are shared by all shelves in a system. Separate GOS sets are maintained for each facility type so the number assigned to a GOS for one facility type may also be assigned to another facility type's GOS without conflict.

Related Messages:

[DLT-AP](#)

[DLT-AP-T1](#)

[DLT-GOS-AP](#)

[DLT-GOS-IMA](#)

[DLT-GOS-IMALINK](#)

[DLT-IMA](#)

[DLT-IMA-PORT](#)

[ED-AP](#)

[ED-GOS-AP](#)

[ED-GOS-IMALINK](#)

[ED-IMA](#)

[ENT-AP](#)

[ENT-AP-T1](#)

[ENT-GOS-AP](#)

[ENT-GOS-IMA](#)

[ENT-GOS-IMALINK](#)

[ENT-IMA](#)

[ENT-IMA-PORT](#)

[INIT-REG-AP](#)

[INIT-REG-IMA](#)

[INIT-REG-IMALINK](#)

[REPT ALM AP](#)

[REPT ALM IMA](#)

[REPT ALM IMALINK](#)

[REPT EVT AP](#)

[REPT EVT IMA](#)

[REPT EVT IMALINK](#)

[REPT RMV AP](#)

[REPT RST AP](#)

[RMV-AP](#)

[RMV-IMA](#)
[RST-IMA](#)
[RTRV-ALM-IMA](#)
[RTRV-AP](#)
[RTRV-COND-IMA](#)
[RTRV-GOS-IMA](#)
[RTRV-IMA](#)
[RTRV-PM-IMA](#)

[RST-AP](#)
[RTRV-ALM-AP](#)
[RTRV-ALM-IMALINK](#)
[RTRV-COND-AP](#)
[RTRV-GOS-AP](#)
[RTRV-GOS-IMALINK](#)
[RTRV-PM-AP](#)
[RTRV-PM-IMALINK](#)

Input Format

```
ED-GOS-IMA:[TID]:<GosAid>:[CTAG]::<LOCN>,<TMPER>:[ [GRFC=<GRFC>,<GRUASIMA>=<GRUASIMA> , ] [ PERUP=<PERUP> , ] [ PERUPE=<PERUPE> , ] [ DESC=<DESC> ] ];
```

Input Parameters

GosAid	Grade of Service Access Identifier. The address of the IMA Grade of Service table entry. <i>GosAid</i> is the AID GosProvAid .
LOCN	Location. This parameter indicates whether the near end or far end PM threshold values are being provisioned. <i>LOCN</i> is of type Location .
TMPER	Time Period. This parameter specifies the accumulation time period for the PM information. <i>TMPER</i> is of type PMPeriod .
GRFC	Group failure count. <i>GRFC</i> is of type SecondsThreshRange .
GRUASIMA	Count of seconds where IMA GTSM is down (Near End only). <i>GRUASIMA</i> is of type SecondsThreshRange .
PERUP	Percent Utilization - Path, Ingress (Near End only). <i>PERUP</i> is of type Percentage .
PERUPE	Percent Utilization - Path, Egress (Near End only). <i>PERUPE</i> is of type Percentage .
DESC	A string description of this object, up to 11 characters in length. <i>DESC</i> is a String.

Input Example

```
ED-GOS-IMA:SYS1:3:324::NEND,15-
MIN:GRFC=130,GRUASIMA=150,PERUP=85,PERUPE=85,
DESC="IMA GOS VER3";
```

Errors

This message generates all of the [Default Errors](#).

ED-GOS-IMALINK

Name

ED-GOS-IMALINK: Edit Grade of Service IMALINK

Description

Category: Performance Monitoring

Security: Memory Admin - by rate

This command is used to set the threshold values for a set of performance parameters called a Grade of Service (GOS). The particular GOS being set is identified by the integer in the AID field of this command. To use the set, it is referenced by the GOS parameter of the appropriate ENT-rr or ED-rr command.

The GOS sets are shared by all shelves in a system. Separate GOS sets are maintained for each facility type so the number assigned to a GOS for one facility type may also be assigned to another facility type's GOS without conflict.

Related Messages:

[DLT-AP](#)

[DLT-AP-T1](#)

[DLT-GOS-AP](#)

[DLT-GOS-IMA](#)

[DLT-GOS-IMALINK](#)

[DLT-IMA](#)

[DLT-IMA-PORT](#)

[ED-AP](#)

[ED-GOS-AP](#)

[ED-GOS-IMA](#)

[ED-IMA](#)

[ENT-AP](#)

[ENT-AP-T1](#)

[ENT-GOS-AP](#)

[ENT-GOS-IMA](#)

[ENT-GOS-IMALINK](#)

[ENT-IMA](#)

[ENT-IMA-PORT](#)

[INIT-REG-AP](#)

[INIT-REG-IMA](#)

[INIT-REG-IMALINK](#)

[REPT ALM AP](#)

[REPT ALM IMA](#)

[REPT ALM IMALINK](#)

[REPT EVT AP](#)

[REPT EVT IMA](#)

[REPT EVT IMALINK](#)

[REPT RMV AP](#)

[REPT RST AP](#)

[RMV-AP](#)

[RMV-IMA](#)

[RST-AP](#)

[RST-IMA](#)

[RTRV-ALM-AP](#)

[RTRV-ALM-IMA](#)

[RTRV-ALM-IMALINK](#)

[RTRV-AP](#)

[RTRV-COND-AP](#)

[RTRV-COND-IMA](#)

[RTRV-GOS-AP](#)

[RTRV-GOS-IMA](#)

[RTRV-GOS-IMALINK](#)

[RTRV-IMA](#)

[RTRV-PM-AP](#)

[RTRV-PM-IMA](#)

[RTRV-PM-IMALINK](#)

Input Format



```

ED-GOS-
IMALINK:[TID]:<GosAid>:[CTAG]::<LOCN>,<TMPER>:[ [IVIMA=<IVIMA>, ]
[SESIMA=<SESIMA>],[UASIMA=<UASIMA>],[TXUUSIMA=<TXUUSIMA>],
[RXUUSIMA=<RXUUSIMA>],[TXFC=<TXFC>],[RFC=<RFC>],]

[TXSTUFFIMA=<TXSTUFFIMA>],[RXSTUFFIMA=<RXSTUFFIMA>],[OIFIMA=<OIFIMA>],
[DESC=<DESC>]];

```

Input Parameters

GosAid	Grade of Service Access Identifier. The address of the IMA Link Grade of Service table entry. <i>GosAid</i> is the AID GosProvAid .
LOCN	Location. This parameter indicates whether the near end or far end PM threshold values are being provisioned. <i>LOCN</i> is of type Location .
TMPER	Time Period. This parameter specifies the accumulation time period for the PM information. <i>TMPER</i> is of type PMPPeriod .
IVIMA	ICP Violations. Count of errored, invalid, or missing ICP cells, except during seconds where a SES-IMA or UAS-IMA condition is reported (Near End only). <i>IVIMA</i> is of type SecondsThreshRange .
SESIMA	Severely Errored Seconds. Count of 1-second intervals containing $\geq 30\%$ of the ICP cells counted as IV-IMAs, or one or more near-end link defects (facility, LIF, or LODS) during non-UAS-IMA intervals. The number of IV-IMA counts required to meet the 30% criteria will depend on the facility line rate and the IMA frame size (M). <i>SESIMA</i> is of type SecondsThreshRange .
UASIMA	Unavailable seconds at NE. The NE unavailability begins at the onset of 10 contiguous SES-IMA including the first 10 seconds to enter the UAS-IMA condition, and ends at the onset of 10 contiguous second with no SES-IMA, excluding the last 10 seconds to exit the UAS-IMA condition. <i>UASIMA</i> is of type SecondsThreshRange .
TXUUSIMA	Transit Unusable Seconds (Near End only). Count of Tx Unusable seconds at the Tx NE Link State Machine (LSM). <i>TXUUSIMA</i> is of type SecondsThreshRange .
RXUUSIMA	Receive Unusable Seconds (Near End only). Count of Rx Unusable seconds at the Rx NE LSM. <i>RXUUSIMA</i> is of type SecondsThreshRange .
TXFC	Transit Failure Count. Count of the number of NE Transmit Link failure alarm entrances. The possible NE Tx link failure alarm conditions are: Tx-Mis-Connected and Tx-Fault. <i>TXFC</i> is of type SecondsThreshRange .
RXFC	Receive Failure Count. Count of the number of NE Receive Link failure alarm entrances. The possible NE Rx link failure alarm conditions are: LIF, LODS, and Rx-Fault. <i>RXFC</i> is of type SecondsThreshRange .
TXSTUFFIMA	Transmit Stuff Events (Near End only). Count of stuff events inserted in the transmitted direction. <i>TXSTUFFIMA</i> is of type ImaLinkStuff .
RXSTUFFIMA	Receive Stuff Events (Near End only). Count of stuff events inserted in the receive direction, except during SES-IMA and UAS-IMA conditions. <i>RXSTUFFIMA</i> is of type ImaLinkStuff .
OIFIMA	Out of IMA Frame (Near End only). Count of OIF anomalies except during SES-IMA or UAS-IMA conditions. <i>OIFIMA</i> is of type SecondsThreshRange .
DESC	A string description of this object, up to 11 characters in length. <i>DESC</i> is a String.

Input Example

```
ED-GOS-IMALINK:SYS1:3:324::NEND,15-
MIN:IVIMA=100,SESIMA=100,UASIMA=10,
TXUUSIMA=10,RXUUSIMA=10,TXFC=50,RXFC=50,TXSTUFFIMA=50,RXSTUFFIMA=50,
OIFIMA=100,DESC="IMA LINK VER 3";
```

Errors

This message generates all of the [Default Errors](#).

ED-GOS-ONT

Name

ED-GOS-ONT: Edit Grade of Service Optical Network Termination

Description

Category: Performance Monitoring

Security: Memory Admin - by rate

This command is used to set the threshold values for a set of performance parameters called a Grade of Service (GOS). The particular GOS being set is identified by the integer in the AID field of this command. To use the set, it is referenced by the GOS parameter of the appropriate ENT-rr or ED-rr command.

The GOS sets are shared by all shelves in a system. Separate GOS sets are maintained for each facility type so the number assigned to a GOS for one facility type may also be assigned to another facility type's GOS without conflict.

Defined in GR-199. *This command is not available in release 5.1*

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-ONT
ED-PROF-ONT	ED-RFVID
ED-VCG	ED-VRP
ENT-AVO	ENT-GOS-ONT
ENT-IG-VDS1	ENT-ONT
ENT-PROF-ONT	ENT-RFVID

ENT-VCG	ENT-VRP
INIT-ONT-UA	INIT-REG-ONT
REPT ALM AVO	REPT ALM ONT
REPT ALM RFVID	REPT ALM VCG
REPT ALM VRP	REPT EVT ONT
REPT RMV AVO	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
ED-GOS-
ONT:[ TID ]:<GosAid>:[ CTAG ]::<LOCN>,<TMPER>:[ [ BIP8=<BIP8> , ][ BES=<BES> , ]
[ SES=<SES> , ][ UAS=<UAS> , ][ MISSING=<MISSING> , ][ MES=<MES> , ][ DESC=<DESC> ] ];
```

Input Parameters

- GosAid** *GosAid* is the AID [GosProvAid](#).
- LOCN** Location. This parameter indicates whether the near end or far end PM threshold values are being provisioned. *LOCN* is of type [Location](#).
- TMPER** Time Period. This parameter specifies the accumulation time period for the PM information. *TMPER* is of type [PMPeriod](#).
- BIP8** BIP8 errors detected on PON transport. NE is OLT detected, FE is ONT detected *BIP8* is a Integer.
- BES** Number of seconds during the period when a BIP8 error was detected. For the FE case, the granularity is 5 seconds rather than 1 second. *BES* is a Integer.
- SES** For NEND this is the count of seconds where either the BIP8 count has exceeded a threshold or where the number of missing bursts equals the number of possible bursts for the ONT.

For FEND this is the count of seconds where the BIP8 count has exceeded a threshold. For the FE case the granularity is 5 seconds rather than 1 second. *SES* is a Integer.

- UAS** This is defined a N consecutive SES. Once unavailable, N consecutive seconds must pass without SES before coming available again. In the FEND case this is a 5 second granularity rather than 1 second. *UAS* is a Integer.
- MISSING** Count of missed bursts (no received traffic from ONT in allocated timeslot). NEND Only. *MISSING* is a Integer.
- MES** Number of seconds during the period when a missing error was detected. NEND only. *MES* is a Integer.
- DESC** DESCription. A user-settable description field, up to 31 characters. *DESC* is a String.

Input Example

```
ED-GOS-ONT:SYS1:3:324::NEND,15-
MIN:BIP8=2,BES=3,SES=3,UAS=3,MISSING=2,MES=3,
DESC="PON GOS 3";
```

Errors

This message generates all of the [Default Errors](#).

ED-GOS-T1

Name

ED-GOS-T1: Edit Grade of Service Digital Signal One

Description

Category: Performance Monitoring

Security: Memory Admin - by rate

This command is used to set the threshold values for a set of performance parameters called a Grade of Service (GOS). The particular GOS being set is identified by the integer in the AID field of this command. To use the set, it is referenced by the GOS parameter of the appropriate ENT-rr or ED-rr command.

The GOS sets are shared by all shelves in a system. Separate GOS sets are maintained for each facility type so the number assigned to a GOS for one facility type may also be assigned to another facility type's GOS without conflict.

Defined in GR-199.

Related Messages:

[DLT-AP-T1](#)

[DLT-CRS-T1](#)

[DLT-GOS-T1](#)
[ED-T1](#)
[ENT-CRS-T1](#)
[ENT-T1](#)
[OPR-LPBK-T1](#)
[REPT EVT T1](#)
[REPT RST T1](#)
[RMV-T1](#)
[RTRV-ALM-T1](#)
[RTRV-CRS-T1](#)
[RTRV-PM-T1](#)

[DLT-T1](#)
[ENT-AP-T1](#)
[ENT-GOS-T1](#)
[INIT-REG-T1](#)
[REPT ALM T1](#)
[REPT RMV T1](#)
[RLS-LPBK-T1](#)
[RST-T1](#)
[RTRV-COND-T1](#)
[RTRV-GOS-T1](#)
[RTRV-T1](#)

Input Format

```
ED-GOS-T1:[TID]:<GosAid>:[CTAG]:::<LOCN>, <TMPER>:[ [ CVP=<CVP>, ] [ ESP=<ESP>, ]  

[ SESP=<SESP>, ] [ SASP=<SASP>, ] [ CSSP=<CSSP>, ] [ UASP=<UASP>, ] [ CVL=<CVL>, ]  

[ ESL=<ESL>, ] [ SESL=<SESL>, ] [ PERUP=<PERUP>, ] [ PERUPE=<PERUPE>, ] [ DESC=<DESC> ] ]  

;
```

Input Parameters

- GosAid** Grade of Service Access Identifier. The address of the DS1 Grade of Service table entry. *GosAid* is the AID [GosProvAid](#).
- LOCN** Location. Indicates whether the near end or far end PM registers are being edited. *LOCN* is of type [Location](#).
- TMPER** Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. *TMPER* is of type [PMPeriod](#).
- CVP** Coding Violations Threshold Path. The threshold value for the coding violations for the path. *CVP* is of type [CVThreshRange](#).
- ESP** Errored Seconds Threshold Path. The threshold value for the errored seconds for the path. *ESP* is of type [SecondsThreshRange](#).
- SESP** Severely Errored Seconds Threshold Path. The threshold value for the severely errored seconds for the path. *SESP* is of type [SecondsThreshRange](#).
- SASP** Severely Errored Framing/Alarm Indication Signal Second Count. The threshold value for the severely errored framing/alarm indication signal second count. *SASP* is of type [SecondsThreshRange](#).
- CSSP** Controlled Slip Seconds Path. The threshold value for the controlled slip seconds path. *CSSP* is of type [SecondsThreshRange](#).
- UASP** Unavailable Seconds Threshold Path. The threshold value for the unavailable seconds for the path. *UASP* is of type [SecondsThreshRange](#).
- CVL** Coding Violations Threshold Line. The threshold value for the coding violations for the line. *CVL* is of type [CVThreshRange](#).
- ESL** Errored Seconds Threshold Line. The threshold value for the errored seconds for the line. *ESL* is of type [SecondsThreshRange](#).

- SESL** Severely Errored Seconds Threshold Line. The threshold value for the severely errored seconds for the line. The default threshold for 15-MIN is 10 and for 1-DAY is 100. *SESL* is of type [SecondsThreshRange](#).
- PERUP** Percent Utilization - Path, Ingress (Near End only). *PERUP* is of type [Percentage](#).
- PERUPE** Percent Utilization - Path, Egress (Near End only). *PERUPE* is of type [Percentage](#).
- DESC** A string description of this object, up to 11 characters in length. *DESC* is a String.

Input Example

```
ED-GOS-T1:SYS1:3:324::NEND,15-
MIN:CVP=10,ESP=15,SESP=10,SASP=5,CSSP=5,UASP=5,
CVL=5,ESL=5,SESL=5,PERUP=85,PERUPE=85,DESC=DESC;
```

Errors

This message generates all of the [Default Errors](#).

ED-GOS-T3

Name

ED-GOS-T3: Edit Grade of Service Digital Signal 3

Description

Category: Performance Monitoring

Security: Memory Admin - by rate

This command is used to set the threshold values for a set of performance parameters called a Grade of Service (GOS). The particular GOS being set is identified by the integer in the AID field of this command. To use the set, it is referenced by the GOS parameter of the appropriate ENT-rr or ED-rr command.

The GOS sets are shared by all shelves in a system. Separate GOS sets are maintained for each facility type so the number assigned to a GOS for one facility type may also be assigned to another facility type's GOS without conflict.

Defined in GR-199.

Related Messages:

[DLT-GOS-T3](#)
[ED-T3](#)
[ENT-T3](#)
[OPR-LPBK-T3](#)

[DLT-T3](#)
[ENT-GOS-T3](#)
[INIT-REG-T3](#)
[REPT ALM T3](#)

[REPT EVT T3](#)
[REPT RST T3](#)
[RMV-T3](#)
[RTRV-ALM-T3](#)
[RTRV-GOS-T3](#)
[RTRV-T3](#)

[REPT RMV T3](#)
[RLS-LPBK-T3](#)
[RST-T3](#)
[RTRV-COND-T3](#)
[RTRV-PM-T3](#)

Input Format

```
ED-GOS-
T3:[TID]:<GosAid>:[CTAG]::<LOCN>,<TMPPER>:[ [ CVP=<CVP> , ] [ ESP=<ESP> , ]
[ SESP=<SESP> , ] [ SASP=<SASP> , ] [ UASP=<UASP> , ] [ CVL=<CVL> , ] [ ESL=<ESL> , ]
[ SESL=<SESL> , ] [ PERUP=<PERUP> , ] [ PERUPE=<PERUPE> , ] [ DESC=<DESC> ] ] ;
```

Input Parameters

- GosAid** Grade of Service Access Identifier. The address of the T3 Grade of Service table entry. *GosAid* is the AID [GosProvAid](#).
- LOCN** Location. Indicates whether the near end or far end PM registers are being edited. *LOCN* is of type [Location](#).
- TMPPER** Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. *TMPPER* is of type [PMPPeriod](#).
- CVP** Coding Violations Threshold Path. The threshold value for the coding violations for the path. Note also that the corresponding CP parameter (CVCP) is set via this same field, since they have the same thresholds. *CVP* is of type [CVThreshRange](#).
- ESP** Errored Seconds Threshold Path. The threshold value for the errored seconds for the path. Note also that the corresponding CP parameter (ESCP) is set via this same field, since they have the same thresholds. *ESP* is of type [SecondsThreshRange](#).
- SESP** Severely Errored Seconds Threshold Path. The threshold value for the severely errored seconds for the path. Note also that the corresponding CP parameter (SESCP) is set via this same field, since they have the same thresholds. *SESP* is of type [SecondsThreshRange](#).
- SASP** Severely Errored Framing/Alarm Indication Signal Second Count. The threshold value for the severely errored framing/alarm indication signal second count. Note also that the corresponding CP parameter (SASCP) is set via this same field, since they have the same thresholds. *SASP* is of type [SecondsThreshRange](#).
- UASP** Unavailable Seconds Threshold Path. The threshold value for the unavailable seconds for the path. Note also that the corresponding CP parameter (UASCP) is set via this same field, since they have the same thresholds. Note also that the corresponding CP parameter (UASCP) is set via this same field, since they have the same thresholds. *UASP* is of type [SecondsThreshRange](#).
- CVL** Coding Violations Threshold Line. The threshold value for the unavailable seconds for the line. *CVL* is of type [CVThreshRange](#).
- ESL** Errored Seconds Threshold Line. The threshold value for the errored seconds for the line. *ESL* is of type [SecondsThreshRange](#).
- SESL** Severely Errored Seconds Threshold Line. The threshold value for the severely errored

seconds for the line. The default threshold for 15-MIN is 10 and for 1-DAY is 100. This parameter does not apply to far end provisioning. *SESL* is of type [SecondsThreshRange](#).

PERUP Percent Utilization - Path, Ingress (Near End only). *PERUP* is of type [Percentage](#).

PERUPE Percent Utilization - Path, Egress (Near End only). *PERUPE* is of type [Percentage](#).

DESC A string description of this object, up to 11 characters in length. *DESC* is a String.

Input Example

```
ED-GOS-T3:SYS1:3:324::NEND,15-
MIN:CVP=10,ESP=15,SESP=10,SASP=4,UASP=5,CVL=5,
ESL=5,SESL=5,PERUP=85,PERUPE=85,DESC=DESC;
```

Errors

This message generates all of the [Default Errors](#).

ED-GR303

Name

ED-GR303: Edit GR303

Description

Category: TDM Services **Security:** Memory Admin - full

This command is used to modify the GR-303 Interface Group attributes.

Defined by Calix

Related Messages:

[ALW-Swdx-GR303](#)
[DLT-CRS-T0](#)
[DLT-GR8](#)
[DLT-T1TG](#)
[ENT-CRS-T0](#)
[ENT-GR8](#)
[ENT-T1TG](#)
[INH-Swdx-T1TG](#)
[REPT ALM T1TG](#)
[REPT EVT T1TG](#)

[ALW-Swdx-T1TG](#)
[DLT-GR303](#)
[DLT-IG-DS1](#)
[ED-GR8](#)
[ENT-GR303](#)
[ENT-IG-DS1](#)
[INH-Swdx-GR303](#)
[REPT ALM GR303](#)
[REPT EVT GR303](#)
[REPT SW GR303](#)

REPT SW T1TG	RTRV-ALM-GR303
RTRV-ALM-T1TG	RTRV-COND-GR303
RTRV-COND-T1TG	RTRV-CRS-T0
RTRV-DLSTAT-GR303	RTRV-DLSTAT-T1TG
RTRV-GR303	RTRV-GR8
RTRV-IG-DS1	RTRV-T1TG
SW-DX-GR303	SW-DX-T1TG

Input Format

```
ED-GR303:[TID]:<IgAid>:[CTAG]:::[[PRIOP=<PRIOP>,[SECOP=<SECOP>,
[SWTYPE=<SWTYPE>,[T308=<T308>,[T303=<T303>,[T396=<T396>,[T397=<T397>,
[EOCALARM=<EOCALARM>,[EOCUPSST=<EOCUPSST>,[FLOWTHROUGH=<FLOWTHROUGH>]];
```

Input Parameters

IgAid	Interface Group Access Identifier. This is the address of the GR-303 Interface Group which is being modified. <i>IgAid</i> is the AID IgAid .
PRIOP	Primary Operations Processor. This parameter identifies the primary Operations Processor which will terminate the EOC channel. This must be a Maintenance/Administration Slot (MS). <i>PRIOP</i> is the AID MsNoneAid .
SECOP	Secondary Operations Processor. This parameter identifies the Secondary Operations Processor which will terminate the EOC channel. This must be a Maintenance/Administration Slot (MS). <i>SECOP</i> is the AID MsNoneAid .
SWTYPE	Switch type. This parameter identifies the type of switch to which the interface is connected. <i>SWTYPE</i> is of type SwitchType .
T308	T308 Timer. Identifies timer T308 used at Layer 3 and specifies the maximum length of time in seconds the RDT will wait for a reply to a RELEASE message. <i>T308</i> is of type T308 .
T303	T303 Timer. Identifies time T303 used at Layer 3 for the TMC and defines the maximum length of time in milliseconds that the RDT will wait for a reply to a SETUP message. <i>T303</i> is of type T303 .
T396	T396 Timer. This parameter specifies the length of time in milliseconds that the RDT will wait for a reply to a SETUP message following the initial expiration of time T303. <i>T396</i> is of type T396 .
T397	T397 Timer. This parameter specifies the maximum length of time in seconds the RDT will wait for the IDT to acknowledge an INFORMATION message that indicated that a customer who had been generating a permanent signal has returned on-hook. <i>T397</i> is of type T397 .
EOCALARM	EOC Alarms. This parameter indicates which alarms are to be reported through the EOC interface. The EOC can report alarms for either the shelf IG, the entire network, or no alarms at all. <i>EOCALARM</i> is of type EOCALarmReport .
EOCUPSST	EOC Up Send Service States. When the EOC link is down, any service state changes are not reported to the switch. Some switches, such as the DMS100, do not audit the CRVs when the EOC link comes up, so the switch continues to have

the incorrect service state. This can result in the switch thinking that a CRV is down so no traffic is able to be carried. When set to "Y", this parameter will send service state notifications for all provisioned CRVs when the EOC link comes up. *EOCUPSST* is of type [BoolYN](#).

FLOWTHROUGH Flow through provisioning (also referred to as 'RDT provisioning'). This is a provisionable option that exists in a Class-5 switch which when enabled causes the switch to send provisioning messages over the EOC of a given GR303 interface group for the purposes of managing analogLineTerminations in the RDT. The switch will Create, Delete, Remove from Service, and audit each CRV in the RDT when this option is enabled. The RDT needs to be aware of how this option is set in the switch for the purposes of issuing service state notifications. If an analogLineTermination is not 'switch created' and flow through provisioning is enabled, then the RDT should not issue any service state notifications to the switch for that line. If flow through provisioning is disabled, then the RDT should always issue service state notifications for all lines. *FLOWTHROUGH* is of type [BoolYN](#).

Input Example

```
ED-GR303:SYS1:N3-4-IG3:322:::PRIOP=N3-2-MS,SECOP=N4-3-
MS,SWTYPE=DMS10,T308=2,
T303=700,T396=14700,T397=120,EOCALARM=SHELFIG,EOCUPSST=Y,FLOWTHROUGH=N;
```

Errors

This message generates all of the [Default Errors](#).

ED-GR8

Name

ED-GR8: Edit GR8

Description

Category: TDM Services **Security:** Memory Admin - by rate

This command is used to modify the GR-8 Interface Group attribute.

Defined by Calix

Related Messages:

[ALW-Swdx-GR303](#)
[DLT-CRS-T0](#)

[ALW-Swdx-T1TG](#)
[DLT-GR303](#)

DLT-GR8	DLT-IG-DS1
DLT-T1TG	ED-GR303
ENT-CRS-T0	ENT-GR303
ENT-GR8	ENT-IG-DS1
ENT-T1TG	INH-Swdx-GR303
INH-Swdx-T1TG	REPT ALM GR303
REPT ALM T1TG	REPT EVT GR303
REPT EVT T1TG	REPT SW GR303
REPT SW T1TG	RTRV-ALM-GR303
RTRV-ALM-T1TG	RTRV-COND-GR303
RTRV-COND-T1TG	RTRV-CRS-T0
RTRV-DLSTAT-GR303	RTRV-DLSTAT-T1TG
RTRV-GR303	RTRV-GR8
RTRV-IG-DS1	RTRV-T1TG
SW-DX-GR303	SW-DX-T1TG

Input Format

```
ED-GR8:[TID]:<SlotIgAid>:[CTAG]:::[SWTYPE=<SWTYPE>];
```

Input Parameters

SlotIgAid GR-8 Interface Group Access Identifier. This is the address of the GR-8 Interface Group which is being modified. *SlotIgAid* is the AID [SlotIgAid](#).

SWTYPE Switch Type. The parameter indicate the type of switch which the GR-8 interface group will be connected to. *SWTYPE* is of type [SwitchType](#).

Input Example

```
ED-GR8:SYS1:N1-1-1-IG1:333:::SWTYPE=DMS10;
```

Errors

This message generates all of the [Default Errors](#).

ED-H248

Name

ED-H248: Edit H248

Description

Category: VOIP

Security: Memory Admin - by rate

This command is used to modify the H.248 Interface Group attributes.

Defined by Calix

Related Messages:

[DLT-H248](#)

[DLT-VSP](#)

[ENT-H248](#)

[ENT-VSP](#)

[RTRV-ALM-H248](#)

[RTRV-H248](#)

[RTRV-VSP](#)

[DLT-IG-VSP](#)

[ED-VSP](#)

[ENT-IG-VSP](#)

[REPT ALM H248](#)

[RTRV-COND-H248](#)

[RTRV-IG-VSP](#)

Input Format

```
ED-H248:[TID]:<IgAid>:[CTAG]:::[ [ SWTYPE=<SWTYPE>, ][ MGIP=<MGIP>, ]
[ MG2IP=<MG2IP>, ][ MGUDP=<MGUDP>, ][ MGC1IP=<MGC1IP>, ][ MGC1UDP=<MGC1UDP>, ]
[ MGC1IKE=<MGC1IKE>, ][ MGC2IP=<MGC2IP>, ][ MGC2UDP=<MGC2UDP>, ]
[ MGC2IKE=<MGC2IKE>, ][ MGC2SWTYPE=<MGC2SWTYPE>, ][ MGC2ESA=<MGC2ESA>, ]
[ TERMPREFIX=<TERMPREFIX>, ][ TMAX=<TMAX>, ][ MWD=<MWD>, ]
[ EPEHEMAUDITDELAY=<EPEHEMAUDITDELAY>, ][ FIRSTDIGWAIT=<FIRSTDIGWAIT>, ]
[ LONGDIGWAIT=<LONGDIGWAIT>, ][ SHORDDIGWAIT=<SHORDDIGWAIT>, ]
[ LONGDIGDUR=<LONGDIGDUR>, ][ MINFLASH=<MINFLASH>, ][ MAXFLASH=<MAXFLASH>, ]
[ MAXACTCALLS=<MAXACTCALLS>, ][ RFC2833MODE=<RFC2833MODE> ] ]:[ <PST> ];
```

Input Parameters

IgAid

IG number within a shelf. *IgAid* is the AID [IgAid](#).

SWTYPE

SWitch TYPE The parameter indicate the type of switch which the H.248 interface group will be connected to. *SWTYPE* is of type [H248SwitchType](#).

MGIP

Media Gateway's IP address for control message transport. *MGIP* is the AID [IpAid](#).

MG2IP

Secondary MGC IP address for control message transport. *MG2IP* is the AID [IpAid](#).

MGUDP

MGUDP is a Integer.

MGC1IP

Primary Media Gateway Controller's IP address. *MGC1IP* is the AID [IpAid](#).

MGC1UDP

MGC1UDP is a Integer.

MGC1IKE

MGC1IKE is the AID [IkeProfAidNone](#).

MGC2IP

Secondary Media Gateway Controller's IP address. A value of 0.0.0.0 indicates there is none. *MGC2IP* is the AID [IpAid](#).

MGC2UDP

MGC2UDP is a Integer.

MGC2IKE	<i>MGC2IKE</i> is the AID IkeProfAidNone .
MGC2SWTYPE	Secondary MGC Switch Type. <i>MGC2SWTYPE</i> is of type H248SwitchType .
MGC2ESA	This parameter indicates whether the secondary MGC is ESA <i>MGC2ESA</i> is of type BoolYN .
TERMPREFIX	Prefix on Termination Ids. This is a string of up to 11 characters. <i>TERMPREFIX</i> is a String.
TMAX	Maximum delay in seconds between first transmission and final retransmission of a message before declaring a communication failure with the MGC. A value of 0 for TMAX disables the declaring of a MGC communication failure due to a message timeout, including a timeout waiting for a heartbeat message. <i>TMAX</i> is a Integer.
MWD	Maximum delay in seconds [0,60] before announcing MG presence to MGC. <i>MWD</i> is a Integer.
EPHEMAUDITDELAY	The number of seconds between repetitions of reporting of a stranded "ephemeral termination" (Network trunk). The value should be in the range 0-3600. The value 0 indicates that the audit is not to be performed. <i>EPHEMAUDITDELAY</i> is a Integer.
FIRSTDIGWAIT	Default number of seconds to wait for the start of dialing. The valid range is 0-60 (0 disables the timer). <i>FIRSTDIGWAIT</i> is a Integer.
LONGDIGWAIT	Default value in seconds of the long inter-digit timer. The valid range is 1-60. <i>LONGDIGWAIT</i> is a Integer.
SHORTDIGWAIT	Default value in seconds of the short inter-digit timer. The valid range is 1-60. <i>SHORTDIGWAIT</i> is a Integer.
LONGDIGDUR	Default minimum duration, in seconds, of a long digit event. The valid range is 1-60. <i>LONGDIGDUR</i> is a Integer.
MINFLASH	Default minimum on-hook duration in milliseconds for a flash. The value range is 100-4900. <i>MINFLASH</i> is a Integer.
MAXFLASH	Default maximum on-hook duration in milliseconds for a flash. The value range is 100-4900. <i>MAXFLASH</i> is a Integer.
MAXACTCALLS	Maximum number of concurrent calls (up to 384) for this IG. <i>MAXACTCALLS</i> is a Integer.
RFC2833MODE	If 'Y', the H248 IG will use the RFC-2833 protocol during call control. The setting of this parameter controls the interface to both the Primary and Secondary MGCs. <i>RFC2833MODE</i> is of type BoolYN .
PST	Primary service state, controls communication with the MGC. <i>PST</i> is of type PrimaryStateChg .

Input Example

```
ED-H248:SYS:N3-2-
IG1:234:::SWTYPE=CS2K,MGIP=172.22.90.101,MG2IP=172.22.110.85,
MGUDP=2944,MGC1IP=68.100.3.99,MGC1UDP=2944,MGC1IKE=NONE,MGC2IP=68.100.4.99,
```

```
MGC2UDP=2944,MGC2IKE=NONE,MGC2SWTYPE=CS2K,MGC2ESA=N,TERMPREFIX=TP,TMAX=30,
MWD=30,EPHEMAUDITDELAY=0,FIRSTDIGWAIT=16,LONGDIGWAIT=16,SHORTDIGWAIT=5,
LONGDIGDUR=1,MINFLASH=500,MAXFLASH=1500,MAXACTCALLS=255,RFC2833MODE=N:OOS;
```

Errors

This message generates all of the [Default Errors](#).

ED-HDSL

Name

ED-HDSL: Edit High bit rate Digital Subscriber Line

Description

Category: HDSL Facility **Security:** Memory Admin - by rate

Edit HDSL Port.

Related Messages:

[DLT-GOS-HDSL](#)

[ED-GOS-HDSL](#)

[ENT-HDSL](#)

[INIT-REG-HDSL](#)

[REPT ALM HDSL](#)

[REPT RMV HDSL](#)

[RLS-LPBK-HDSL](#)

[RST-HDSL](#)

[RTRV-COND-HDSL](#)

[RTRV-GOS-HDSL](#)

[RTRV-HTU](#)

[DLT-HDSL](#)

[ENT-GOS-HDSL](#)

[INIT-HDSL](#)

[OPR-LPBK-HDSL](#)

[REPT EVT HDSL](#)

[REPT RST HDSL](#)

[RMV-HDSL](#)

[RTRV-ALM-HDSL](#)

[RTRV-CSTAT-HDSL](#)

[RTRV-HDSL](#)

[RTRV-PM-HDSL](#)

Input Format

```
ED-
HDSL:[TID]:<HdslAid>:[CTAG]:::[[LINETYPE=<LINETYPE>,][T1MAP=<T1MAP>,
[FMT=<FMT>,[TERM=<TERM>,[SNRTHR=<SNRTHR>,[ATTHR=<ATTHR>,[PWR=<PWR>,
[GOS=<GOS>,[TMGMODE=<TMGMODE>,[DESC=<DESC>]]:[<PST>,[<SST>];
```

Input Parameters

HdslAid	HDSL Port Access Identifier. The address of the HDSL port being entered. <i>HdslAid</i> is the AID SixPortLuAid .
LINETYPE	HDSL Line Type: 2- or 4-wire mode. In 4-wire mode, two consecutive port addresses are required for one HDSL port. <i>LINETYPE</i> is of type HdslLineType .
T1MAP	MAPping of the payload signal. When payload signal is a form that may be altered at the T1 port, this parameter specifies the mapping. Otherwise, its value should be NA. <i>T1MAP</i> is of type T1MapHdsl .
FMT	DS1 Format. This parameter indicates DS1 signal format. <i>FMT</i> is of type FormatSignal .
TERM	TERMinal Unit Type <i>TERM</i> is of type HdslTermType .
SNRTHR	Signal-to-Noise Margin Threshold (near-end), in dB. (0 == OFF) <i>SNRTHR</i> is of type SnrTargetMargins .
ATTHR	Loop Attenuation Threshold (near-end), in dB. (0 == OFF) <i>ATTHR</i> is of type HdslLoopAttenThresh .
PWR	Line PoWeRing. This parameter indicates whether the line is to supply power. <i>PWR</i> is of type T1Pwr .
GOS	Grade of Service Access Identifier. This is the HDSL Grade of Service which is to be applied to the port. <i>GOS</i> is the AID GosAid .
TMGMODE	Timing Mode. This parameter selects the timing source for the T1 port transmit signal. For T1MAP other than UNI or NNI, C7 will default TMGMODE to LOOP when FMT=UF, SOURCE otherwise. <i>TMGMODE</i> is of type T1TimingMode .
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String.
PST	Primary Service State. This is the service state which the user wants the entity to transition into. <i>PST</i> is of type PrimaryStateChg .
SST	Secondary Service State. The only secondary service state which is provisionable is SB. It only applies when the PST is OOS. <i>SST</i> is of type SecondaryStateChgSB .

Input Example

```
ED-HDSL:SYS3:N4-3-5-
2:124:::LINETYPE=2WIRE,T1MAP=NA,FMT=UF,TERM=COT,SNRTHR=6,
ATTHR=50,PWR=SINK,GOS=OFF,TMGMODE=LOOP,DESC="DESCRIPTION":OOS,SB;
```

Errors

This message generates all of the [Default Errors](#).

ED-IFCONFIG

Name

ED-IFCONFIG: Edit Interface Configuration

Description

Category: Management Interface

Security: System Administration

Instructs an C7 to set the attributes associated with an interface configuration such as an ethernet port on the AMP board.

Defined by Calix.

Related Messages:

[ACT-CRS-OW](#)
[ED-SERIAL](#)
[RTRV-CRS-OW](#)
[RTRV-SERIAL](#)

[DLT-CRS-OW](#)
[ENT-CRS-OW](#)
[RTRV-IFCONFIG](#)

Input Format

```
ED-
IFCONFIG: [TID]:<IfConfigAid>:[CTAG]:::[ [CHAP=<CHAP>, ][IP=<IP>, ]
[IPMSK=<IPMSK>, ][GADDR=<GADDR>, ][ENCAP=<ENCAP> ]];
```

Input Parameters

IfConfigAid Interface Configuration Access Identifier. The address of an interface configuration which is being modified. *IfConfigAid* is the AID [IfConfigAid](#).

CHAP Channel Access Privilege. This parameter identifies the access privileges for the ethernet port on which a user can establish a session. At system initialization the default value is FULLACC for all ethernet ports. *CHAP* is of type [CidSecurity](#).

IP IP address. IP ADDReSS. This parameter identifies the IP address used when accessing the ethernet port. Entering an IP address of 0.0.0.0 will tear down the interface and unbind the associated IfConfigAid from it. Some older Amp cards only support two active interfaces, so this allows the user to bind either E2 or E3 to the desired IP, depending on application needs. *IP* is the AID [IpAid](#).

IPMSK IP address mask. This parameter identifies the the mask used on the IP Address. *IPMSK* is the AID [IpAid](#).

GADDR Gateway IP address. Only one of the gateway addresses per shelf (interface E1 or E2) can be nonzero. Additional static routes can be created with ENT-IP-ROUTE. *GADDR* is the AID [IpAid](#).

ENCAP ATM Encapsulation Type. This parameter is applicable only for the Inband Management (E3) interface. *ENCAP* is of type [E3EncapType](#).

Input Example

```
ED-IFCONFIG:SYS1:N4-3-MS-E2:345:::CHAP=FULLACC, IP=192.168.1.0,
IPMSK=255.255.255.0, GADDR=154.233.45.1, ENCAP=BRIDGED;
```

Errors

This message generates all of the [Default Errors](#).

ED-IG-CSHELF

Name

ED-IG-CSHELF: Edit Interface Group Concentration Shelf

Description

Category: TDM Services **Security:** Memory Admin - by rate

This command is used to modify an association between an Interface Group (GR303, T1TG RDT, or H248) and a POTS subscriber shelf.

Input Format

```
ED-IG-CSHELF:[TID]:<IgAid>:[CTAG]::<SHELF>:[[NVDS1=<NVDS1>,]
[CAPALMTHR=<CAPALMTHR>]];
```

Input Parameters

IgAid	The Interface Group AID. <i>IgAid</i> is the AID IgAid .
SHELF	The associated subscriber shelf. <i>SHELF</i> is the AID ShelfAid .
NVDS1	The number of Virtual DS1s allocated for this association. This determines the call capacity for the IG to the associated shelf. <i>NVDS1</i> is a Integer.
CAPALMTHR	Call Capacity Alarm Threshold. If the number of active calls reaches or exceeds this percentage of total, an alarm is raised. <i>CAPALMTHR</i> is of type Percentage .

Input Example

```
ED-IG-CSHELF:SYS1:N1-4-IG2:CTAG::N3-2:NVDS1=2,CAPALMTHR=90;
```

Errors

This message generates all of the [Default Errors](#).

ED-IGMP

Name

ED-IGMP: Edit IGMP

Description

Category: IP **Security:** Memory Admin - by rate

Edit Internet Group Management Protocol.

Related Messages:

DLT-CVIDREG	DLT-IGMP-JOIN
DLT-MACHOST	DLT-VB
DLT-VBPORT	DLT-VLAN-VBPORT
DLT-VR	DLT-VRPORT
ED-CVIDREG	ED-MACHOST
ED-VB	ED-VBPORT
ED-VLAN-VBPORT	ED-VR
ENT-CVIDREG	ENT-IGMP-JOIN
ENT-MACHOST	ENT-VB
ENT-VBPORT	ENT-VLAN-VBPORT
ENT-VR	ENT-VRPORT
REPT ALM VB	REPT ALM VR
REPT EVT VB	REPT EVT VR
RTRV-ALM-VB	RTRV-ALM-VR
RTRV-CVIDREG	RTRV-IGMP
RTRV-IGMP-JOIN	RTRV-MACHOST
RTRV-VB	RTRV-VBPORT
RTRV-VLAN-VBPORT	RTRV-VR
RTRV-VRPORT	

Input Format

```
ED-IGMP:[TID]:<IrcAid>:[CTAG]:::[[QINT=<QINT>,][QRINT=<QRINT>,]
[SQINT=<SQINT>,][SQCNT=<SQCNT>,][LMQINT=<LMQINT>,][LMQCNT=<LMQCNT>,]
[CTLMODE=<CTLMODE>,][MACFLTR=<MACFLTR>],[PROXY=<PROXY>]];
```

Input Parameters

IrcAid	IP Route processor Card Access IDentifier. <i>IrcAid</i> is the AID SlotLuAid .
QINT	Query Interval. The interval in seconds between General Queries sent by the requestor. The valid range is 1 - 255 seconds. <i>QINT</i> is a Integer. The default value is "125".
QRINT	Query Response Interval. The Max Response Time in milliseconds inserted into the periodic General. The valid range is 100 - 25000 milliseconds. <i>QRINT</i> is a Integer. The default value is "20000".
SQINT	Startup Query Interval. The interval in seconds between General Queries sent by a requestor on startup. The valid range is 1 - 255 seconds. <i>SQINT</i> is a Integer. The default value is "30".
SQCNT	Startup Query Count. The number of Queries sent out on startup, separated by the Startup Query Interval. The valid range is 1 - 10. <i>SQCNT</i> is a Integer. The default value is "2".
LMQINT	Last Member Query Interval. The Max Response Time in milliseconds inserted into Group-Specific Queries sent in response to Leave Group messages, and is also the amount of time between Group-Specific Query messages. The valid range is 1 - 1000 milliseconds. <i>LMQINT</i> is a Integer. The default value is "100".
LMQCNT	Last Member Query Count. The number of Group-Specific Queries sent before the router assumes there are no local members. The valid range is 1 - 10. <i>LMQCNT</i> is a Integer. The default value is "1".
CTLMODE	Control Mode. Determines how IGMP clients are expected to behave. 'Normal' for RFC 2336 support and 'Fast' supports the customized IGMP client, which requires each client to send reports and leaves [For the first release, it implies a deployment of similar STBs, in future release, can be overridden by a device level setting]. <i>CTLMODE</i> is of type IgmpCtlMode . The default value is "NORMAL".
MACFLTR	MAC Filtering. Mac address filtering provides added security when set to TRUE. Extra checks validate the channel changers source MAC address. <i>MACFLTR</i> is of type BoolYN . The default value is "N".
PROXY	Igmp PROXY Mode. IRC operates in IGMP Proxy Mode when set to TRUE by sending reports and leaves upstream to the video head end. When set to 'N', all multicast video channels are always flowing from the video head end. <i>PROXY</i> is of type BoolYN . The default value is "N".

Input Example

```
ED-IGMP::N1-1-
19:32:::QINT=125,QRINT=100,SQINT=31,SQCNT=2,LMQINT=100,LMQCNT=1,
CTLMODE=NORMAL,MACFLTR=N,PROXY=N;
```

Errors

This message generates all of the [Default Errors](#).

ED-IMA

Name

ED-IMA: Edit IMA

Description

Category: IMA Group **Security:** Memory Admin - by rate

This command modifies provision for an Inverse Multiplexing for ATM (IMA) Interface Group on the specified node.

Related Messages:

[DLT-AP](#)

[DLT-GOS-AP](#)

[DLT-GOS-IMALINK](#)

[DLT-IMA-PORT](#)

[ED-GOS-AP](#)

[ED-GOS-IMALINK](#)

[ENT-AP-T1](#)

[ENT-GOS-IMA](#)

[ENT-IMA](#)

[INIT-REG-AP](#)

[INIT-REG-IMALINK](#)

[REPT ALM IMA](#)

[REPT EVT AP](#)

[REPT EVT IMALINK](#)

[REPT RST AP](#)

[RMV-IMA](#)

[RST-IMA](#)

[RTRV-ALM-IMA](#)

[RTRV-AP](#)

[RTRV-COND-IMA](#)

[RTRV-GOS-IMA](#)

[RTRV-IMA](#)

[RTRV-PM-IMA](#)

[DLT-AP-T1](#)

[DLT-GOS-IMA](#)

[DLT-IMA](#)

[ED-AP](#)

[ED-GOS-IMA](#)

[ENT-AP](#)

[ENT-GOS-AP](#)

[ENT-GOS-IMALINK](#)

[ENT-IMA-PORT](#)

[INIT-REG-IMA](#)

[REPT ALM AP](#)

[REPT ALM IMALINK](#)

[REPT EVT IMA](#)

[REPT RMV AP](#)

[RMV-AP](#)

[RST-AP](#)

[RTRV-ALM-AP](#)

[RTRV-ALM-IMALINK](#)

[RTRV-COND-AP](#)

[RTRV-GOS-AP](#)

[RTRV-GOS-IMALINK](#)

[RTRV-PM-AP](#)

[RTRV-PM-IMALINK](#)

Input Format

```
ED-IMA: [TID]:<ImaAid>:[CTAG]:::[ [IMAMAP=<IMAMAP>,][MLINKS=<MLINKS>,]
[XDIFDLY=<XDIFDLY>,[INH=<INH>],[FRMLEN=<FRMLEN>],[ALTV1_0=<ALTV1_0>,
[EXT=<EXT>],[PDOM=<PDOM>],[GOS=<GOS>],[LINKGOS=<LINKGOS>,
[PYLDSCRM=<PYLDSCRM>],[ATMMON=<ATMMON>],[TMGMODE=<TMGMODE>,
[TXIMAGRIPID=<TXIMAGRIPID>],[TXIMAGRVER=<TXIMAGRVER>],[DESC=<DESC>]]:
[<PST>],[<SST>];
```

Input Parameters

ImaAid	IMA Group Access Identifier. The address of the IMA group being modified. <i>ImaAid</i> is the AID ImaGrpAid .
IMAMAP	IMA Mapping. This parameter indicates how the internal fixed length packets are to be mapped at the IMA interface. <i>IMAMAP</i> is of type ImaMap .
MLINKS	Minimum links. Minimum number of links required to be Active for the IMA group to be in the Up state. <i>MLINKS</i> is of type ImaLinks .
XDIFDLY	Maximum Differential Delay. The maximum number of milliseconds of differential delay among the links that will be tolerated. <i>XDIFDLY</i> is of type ImaDiffDelay .
INH	Inhibited. Configures whether the group is allowed to become operational and carry ATM data. <i>INH</i> is of type BoolYN .
FRMLEN	Frame Length. The IMA frame length to be used by the IMA group. <i>FRMLEN</i> is of type ImaFrm .
ALTV1_0	Alternative V1.0. The C7 IMA interface uses the IMA version 1.1 specification as default to interoperate with other IMA interfaces, this is normally backward compatible with older v1.0 interfaces. However, there are recognized interoperability issues with some older IMA interfaces. This parameter enables/disables the IMA group to use the alternative v1.0 IMA specification that should avoid these interoperability problems. For example, the parameter should be set in a group that is interoperating with an older Cisco IMA interface. Please see Atm Forum: Inverse Multiplexing for ATM Specification Version 1.1(AF-PHY-0086.001) - Abstract for further details. <i>ALTV1_0</i> is of type BoolYN .
EXT	External Interface. This indicates if the IMA group is an internal or external path in the network. The value should be set to "Y" when the group is an external interface. It should be set to "N" when the group is connected to other shelves within a network of C7s. This parameter is valid only if IMAMAP is NNI. Note that this parameter must be changed independently of others, ie. a separate ED-IMA command is required. <i>EXT</i> is of type BoolYN .
PDOM	Protection DOMain. This is an integer that is used to associate a transport facility into a protection domain that is used for A to Z connection provisioning. The PDOM for each domain must be a unique non-zero integer. The value of 0 is reserved to indicate that the facility is not to be used for A to Z connections. <i>PDOM</i> is of type Pdom .
GOS	Grade of Service Access Identifier. This is the Grade of Service that is to be applied to the IMA group. <i>GOS</i> is the AID GosAid .
LINKGOS	Link Grade of Service Access Identifier. This is the Grade of Service that is to be applied to the IMA links. <i>LINKGOS</i> is the AID GosAid .
PYLDSCRM	Payload Scrambling. This parameter is set to Y to enable the scrambling of ATM cells. <i>PYLDSCRM</i> is of type BoolYN .
ATMMON	ATM Diagnostic Monitoring. This parameter is set to Y to enable ATM diagnostic monitoring on the STS path. If enabled, an ATM OAM loopback ping is injected on VP0-VC3 to verify point-to-point connectivity with the next line unit. It applies only to ATMNNI and ATMUNI interfaces. <i>ATMMON</i> is of type BoolYN .

TMGMODE	Timing Mode. This parameter selects the timing source. <i>TMGMODE</i> is of type T1TimingMode .
TXIMAGRPIID	Specifies the transmit IMA Group ID, a value between 1 and 255. <i>TXIMAGRPIID</i> is a Integer.
TXIMAGRVER	Specifies the transmitted IMA version. <i>TXIMAGRVER</i> is of type ImaVersion .
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String.
PST	Primary Service State. This is the service state which the user wants the entity to transition into. <i>PST</i> is of type PrimaryStateChg .
SST	Secondary Service State. The only secondary service state which is provisionable is SB. It only applies when the PST is OOS. <i>SST</i> is of type SecondaryStateChgSB .

Input Example

```
ED-IMA:SYS1:N3-4-1-
IMA4:322:::IMAMAP=UNI,MLINKS=1,XDIFDLY=25,INH=N,FRMLEN=128,
    ALTV1_0=Y,EXT=N,PDOM=1,GOS=OFF,LINKGOS=OFF,PYLDSCRM=N,ATMMON=Y,
TMGMODE=SOURCE,TXIMAGRPIID=1,TXIMAGRVER=1.1,DESC="DESCRIPTION":OOS,SB;
```

Errors

This message generates all of the [Default Errors](#).

ED-IPIF-PORT

Name

ED-IPIF-PORT: Edit IPIF PORT

Description

Category: IP **Security:** Memory Admin - by rate

Edit IPIF Port - This modifies an association of an IP address to a layer 2 interface.

Related Messages:

[DLT-DHCP-OUI](#)

[DLT-IP-IF](#)

[DLT-IP-ROUTE](#)

[DLT-IPIF-PORT](#)

[DLT-SUBIF-BINDING](#)

[DLT-VID-CHAN](#)

[DLT-VID-IRCLOC](#)

[DLT-VID-SUB](#)

[DLT-VID-SVC](#)

[DLT-VODCLNT](#)

DLT-VODDSTLU	DLT-VODFLOW
DLT-VODSRCLU	DLT-VODSVR
ED-ARP	ED-VID-CHAN
ED-VID-SUB	ED-VID-SVC
ED-VODDSTLU	ENT-DHCP-OUI
ENT-IP-IF	ENT-IP-ROUTE
ENT-IPIF-PORT	ENT-SUBIF-BINDING
ENT-VID-CHAN	ENT-VID-IRCLOC
ENT-VID-SUB	ENT-VID-SVC
ENT-VODDSTLU	REPT EVT VODFLOW
RTRV-ARP	RTRV-DHCP-LEASE
RTRV-DHCP-OUI	RTRV-IP-IF
RTRV-IP-ROUTE	RTRV-IPIF-PORT
RTRV-SUBIF-BINDING	RTRV-VID-CHAN
RTRV-VID-IRCLOC	RTRV-VID-SUB
RTRV-VID-SVC	RTRV-VODCLNT
RTRV-VODDSTLU	RTRV-VODFLOW
RTRV-VODSRCLU	RTRV-VODSVR

Input Format

```
ED-IPIF-
PORT:[TID]:<IP>:[CTAG]:::INTERFACE=<INTERFACE>,RTRAID=<RTRAID>,
[DHCPIPIF=<DHCPPIF>];
```

Input Parameters

IP *IP* is the AID [IpAid](#).

INTERFACE *INTERFACE* is the AID [IpIfPortAid](#).

RTRAID *RTRAID* is the AID [VrAid](#).

DHCPIPIF Indicates that this IPIF-PORT's interface is used for relaying DHCP requests. For DHCP requests to be relayed, exactly one IP interface for a given layer-2 interface must have DHCPIPIF=Y.

A given virtual bridge may have at most one IPIF-PORT, attached at the VB level, with the DHCPIPIF set to Y. Each VLAN, independent of the virtual bridge attachments, may also have at most one attached IP-Interface with DHCPIPIF set to Y. *DHCPIPIF* is of type [BoolYN](#).

Input Example

```
ED-IPIF-PORT:SYS1:192.168.1.0:32:::INTERFACE=N1-1-VB1-
VLAN5,RTRAID=N1-1-VR1,
DHCPIPIF=N;
```

Errors

This message generates all of the [Default Errors](#).

ED-LINK

Name

ED-LINK: Edit Link

Description

Category: Management Interface

Security: System Administration

This command allows the user to modify an internal communication path for an internal link to use either an internal communications channel within a port's payload, the line data communication channel or the section data communications channel.

Related Messages:

[DLT-CRS-DCC](#)

[RTRV-CRS-DCC](#)

[ENT-CRS-DCC](#)

[RTRV-LINK](#)

Input Format

```
ED-LINK:[TID]:<DataLinkAid>:[CTAG]::<LINKTYPE>,[<ICCVc>];
```

Input Parameters

DataLinkAid Data Link Access Identifier. The address of the port which is to carry the datalink. *DataLinkAid* is the AID [DataLinkAid](#).

LINKTYPE Link Type. This parameter indicates whether the Section Data Communication Channel (SDCC), Link Data Communications Channel (LDCC), or Internal Communication Channel (ICC) in a facility payload should be used to communicate with the other nodes in the system. *LINKTYPE* is of type [LinkType](#).

ICCVc Internal Communications Channel Virtual Circuit. When an Internal Communications Channel within a facility payload is used to carry the internal datalink, this parameter is used to specify the full address of the Virtual Circuit in the payload. If no value is provided, the default of VP0, VC24 will be set. For a Sonet port, C7 will assume the first STS, which MUST be ATMNNI or the command will be rejected. *ICCVc* is the AID [LinkId](#).

Input Example

ED-LINK:SYS1:N9-2-4-2:555::ICC,N9-2-4-2-VP35-VC2345;
--

Errors

This message generates all of the [Default Errors](#).

ED-MACHOST

Name

ED-MACHOST: Edit MACHOST

Description

Category: IP **Security:** Memory Admin - by rate

Not supported in release 6.0.

Related Messages:

[DLT-CVIDREG](#)

[DLT-IGMP-JOIN](#)

[DLT-MACHOST](#)

[DLT-VB](#)

[DLT-VBPORT](#)

[DLT-VLAN-VBPORT](#)

[DLT-VR](#)

[DLT-VRPORT](#)

[ED-CVIDREG](#)

[ED-IGMP](#)

[ED-VB](#)

[ED-VBPORT](#)

[ED-VLAN-VBPORT](#)

[ED-VR](#)

[ENT-CVIDREG](#)

[ENT-IGMP-JOIN](#)

[ENT-MACHOST](#)

[ENT-VB](#)

[ENT-VBPORT](#)

[ENT-VLAN-VBPORT](#)

[ENT-VR](#)

[ENT-VRPORT](#)

[REPT ALM VB](#)

[REPT ALM VR](#)

[REPT EVT VB](#)

[REPT EVT VR](#)

[RTRV-ALM-VB](#)

[RTRV-ALM-VR](#)

[RTRV-CVIDREG](#)

[RTRV-IGMP](#)

[RTRV-IGMP-JOIN](#)

[RTRV-MACHOST](#)

[RTRV-VB](#)

[RTRV-VBPORT](#)

[RTRV-VLAN-VBPORT](#)

[RTRV-VR](#)

[RTRV-VRPORT](#)

Input Format

```
ED-
MACHOST: [ TID ] :<MACAID> : [ CTAG ] :: : VLAN=<VLAN> , [ L2IFAID=<L2IFAID> ] ;
```

Input Parameters

MACAID *MACAID* is the AID [MacAid](#).

VLAN *VLAN* is the AID [PacketVlanAid](#).

L2IFAID *L2IFAID* is the AID [VbPortAid](#).

Input Example

```
ED-MACHOST:SYS:01-23-45-67-89-AB:123:::VLAN=N2-1-VB3-VLAN5 ,
L2IFAID=N2-1-VB3-5;
```

Errors

This message generates all of the [Default Errors](#).

ED-NODE

Name

ED-NODE: Edit Node

Description

Category: System **Security:** System Administration

This command may be used to change a node's System ID (SID). It may also be used to change which shelf of a node has the Local AMP used to report alarms for the node.

Defined by Calix.

Related Messages:

[ALW-STBY-UPGRD](#)
[DLT-NODE](#)
[ED-SHELF](#)
[ED-SYS-SECU](#)
[ENT-SHELF](#)
[INIT-SYS](#)

[DLT-ALM-SHELF](#)
[ED-DAT](#)
[ED-SYS](#)
[ENT-NODE](#)
[INH-STBY-UPGRD](#)
[OPR-BAR](#)

[REPT ALM SHELF](#)
[REPT EVT SHELF](#)
[RTRV-BAR](#)
[RTRV-HDR](#)
[RTRV-NODE](#)
[RTRV-SYS](#)

[REPT EVT MEM](#)
[RTRV-ALM-SHELF](#)
[RTRV-COND-SHELF](#)
[RTRV-NETYPE](#)
[RTRV-SHELF](#)
[RTRV-SYS-SECU](#)

Input Format

```
ED-NODE:[TID]:<NodeAid>:[CTAG]::[<SID>]:[[NODEAMP=<NODEAMP>, ]  
[ALMCONT=<ALMCONT>, ][MOUNT=<MOUNT>, ][LAT=<LAT>, ][LONG=<LONG>]];
```

Input Parameters

- NodeAid** Node Access Identifier. The node number of the node which is to be updated. *NodeAid* is the AID [NodeAid](#).
- SID** System identification code (SID). If specified, this is the new SID to be assigned to the the node. It is the SID which will be used to identify the node in the TID field of any subsequent TL1 commands issued by TL1 users who do not specify a Node Number in their AIDs. The value of SID may be any valid simple or compound TL1 identifier or text string. It is limited to 20 characters. The recommended value for this parameter is the node's CLLI. *SID* is a String.
- NODEAMP** Node AMP. This is the AID of the AMP or ATP which is to report alarms for all shelves within the node. It must be in a shelf within the node. *NODEAMP* is the AID [MsNoneAid](#).
- ALMCONT** ALarM CONTact. This parameter determines whether alarm contacts can be scoped to reflect just the node or can be scoped report for the network. *ALMCONT* is of type [AlarmContact](#).
- MOUNT** Mount Type. This describes how the Node of C7's is mounted, such as a Rack or Outdoor Cabinet. *MOUNT* is of type [MountType](#).
- LAT** Latitude. This is the Latitude in real world coordinates. *LAT* is a Integer.
- LONG** Longitude. This is the Longitude in real world coordinates. *LONG* is a Integer.

Input Example

```
ED-NODE::N4:34::"PETALUMA":NODEAMP=N4-1-  
MS,ALMCONT=NODE,MOUNT=RACK,LAT=5,  
LONG=10;
```

Errors

This message generates all of the [Default Errors](#).

ED-ONT

Name

ED-ONT: Edit Optical Network Termination

Description

Category: PON **Security:** Memory Admin - by rate

This command modifies an Optical Network Termination in the database.

Defined by Calix.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-PROF-ONT	ED-RFVID
ED-VCG	ED-VRP
ENT-AVO	ENT-GOS-ONT
ENT-IG-VDS1	ENT-ONT
ENT-PROF-ONT	ENT-RFVID
ENT-VCG	ENT-VRP
INIT-ONT-UA	INIT-REG-ONT
REPT ALM AVO	REPT ALM ONT
REPT ALM RFVID	REPT ALM VCG
REPT ALM VRP	REPT EVT ONT
REPT RMV AVO	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT

[RTRV-PROF-ONT](#)
[RTRV-STAT-HPNA](#)
[RTRV-VCG](#)
[RTRV-VRP](#)

[RTRV-RFVID](#)
[RTRV-STAT-RFR](#)
[RTRV-VDS1](#)
[TST-ONT-MET](#)

Input Format

```
ED-
ONT:[TID]:<OntAid>:[CTAG]:::[[ONTNUM=<ONTNUM>,[REGID=<REGID>,[VCG=<VCG>,
[BATPROV=<BATPROV>,[ONTPID=<ONTPID>,[SDBER=<SDBER>,[GOS=<GOS>,
[DESC=<DESC>]:[<PST>,[<SST>];
```

Input Parameters

- OntAid** The ONT Port Access Identifier. *OntAid* is the AID [OntAid](#).
- ONTNUM** The ONT Number for the ONT. This can be physical serial number of the unit or an assigned number programmed into the ONT. The ONT Number is entered as string of at most 8 hexadecimal digits, optionally preceded by "0x". *ONTNUM* is a String.
- REGID** Registration Id. This is a string of up to 10 digits ('0' through '9'), that can be used instead of ONTNUM for remote ONT registration. When an ONT has been ranged and associated with a matching REGID in the database, the ONTNUM will be automatically recorded in the C7 database and service to the ONT enabled. *REGID* is a String.
- VCG** The Voice Concentration Group used to support T0 cross-connects from this ONT. *VCG* is the AID [OntId](#).
- BATPROV** This parameter indicates the expected Battery Backup capability. *BATPROV* is of type [BoolYN](#).
- ONTPID** The ONT Password is a string of up to 10 characters that can be used to verify the authenticity of an arriving ONT. A password cannot be provided when using a Calix defined ONT Profile. *ONTPID* is a String.
- SDBER** The threshold value above which the PON Interface bit error rate constitutes a Degraded Signal. *SDBER* is of type [BitErrorRateSD](#).
- GOS** *GOS* is the AID [GosAid](#).
- DESC** DESCription. A user-settable description field, up to 31 characters. *DESC* is a String.
- PST** Primary Service State. This is the service state which the user wants the entity to transition into. *PST* is of type [PrimaryStateChg](#).
- SST** Secondary Service State. The only secondary service state which is provisionable is SB. It only applies when the PST is OOS. *SST* is of type [SecondaryStateChgSB](#).

Input Example

```
ED-ONT:SYS:N2-3-12-1-
22:1234:::ONTNUM=117235,REGID=7077663000,VCG=N1-2-IG3,
BATPROV=Y,ONTPID=SECRET,SDBER=5,GOS=3,DESC="ONT22":OOS,SB;
```

Errors

This message generates all of the [Default Errors](#).

ED-PID

Name

ED-PID: Edit Password

Description

Category: Security **Security:** Security User

Allow a user to change their own password.

Any TID may be used for this command as the security data associated with this command will be updated across the entire C7 network as a result of the execution of this command.

Defined in TR-835.

Related Messages:

[ACT-USER](#)

[CANC](#)

[CANC-PPPOESESS](#)

[CANC-USER](#)

[DLT-USER-SECU](#)

[ENT-USER-ACL](#)

[INH-USER-SECU](#)

[RTRV-USER-SECU](#)

[ALW-USER-SECU](#)

[CANC-CID-SECU](#)

[CANC-SES-SECU](#)

[DLT-USER-ACL](#)

[ED-USER-SECU](#)

[ENT-USER-SECU](#)

[RTRV-USER-ACL](#)

Input Format

```
ED-PID: [TID]:<UID>:[CTAG]::<OLDPID>, <NEWPID>;
```

Input Parameters

UID User Identifier. The user's identifier for session to be cancelled. It is a non-confidential identifier that uniquely determines a user. The user's identifier is any combination of alphanumeric characters 4 to 10 characters long and is case-sensitive. *UID* is the AID [UserAid](#).

OLDPID Old password. The user's old password or private identifier. *OLDPID* is a String.

NEWPID User's new password. The password must conform to the rules provisioned via ED-SYS-

SECU. The new password must be distinct from the old password. *NEWPID* is a String.

Input Example

```
ED-PID:SYS6:JOEY:838::*****,******;
```

Errors

This message generates all of the [Default Errors](#).

ED-PON

Name

ED-PON: Edit Passive Optical Network

Description

Category: PON **Security:** Memory Admin - by rate

This command is used to edit a PON port.

Defined by Calix.

Input Format

```
ED-
PON: [ TID ] :<PonAid>:[ CTAG ] :: [ [ SDBER=<SDBER> , [ DESC=<DESC> ] ] :[ <PST> ] , [ <SST> ]
;
```

Input Parameters

PonAid The PON Port Access Identifier. *PonAid* is the AID [FourPortLuAid](#).

SDBER Signal Degraded Bit Error Rate. The threshold value above which the Line's bit error rate constitutes a Degraded Signal. *SDBER* is of type [BitErrorRateSD](#).

DESC DESCription. A user-settable description field, up to 31 characters. *DESC* is a String.

PST Primary Service State. This is the service state which the user wants the entity to transition into. *PST* is of type [PrimaryStateChg](#).

SST Secondary Service State. The only secondary service state which is provisionable is SB. It only applies when the PST is OOS. *SST* is of type [SecondaryStateChgSB](#).

Input Example

```
ED-PON:SYS:N2-3-12-1:67:::SDBER=5,DESC="PON1":OOS,SB;
```

Errors

This message generates all of the [Default Errors](#).

ED-PROF-IKE

Name

ED-PROF-IKE: Edit Profile IKE

Description

Category: TDM Services

Security: Memory Admin - by rate

No Comment Defined.

Input Format

```
ED-PROF-
IKE:[TID]:<IkeProfId>:[CTAG]:::[VER=<VER>,][AUTH=<AUTH>,][KEY=<KEY>,]
[ENC=<ENC>],[HASH=<HASH>],[DH=<DH>],[LIFESEC=<LIFESEC>,
][IPSECMODE=<IPSECMODE>],[IPSECENC=<IPSECENC>],[IPSECHASH=<IPSECHASH>,
][IPSECPFS=<IPSECPFS>],[IPSECLIFESEC=<IPSECLIFESEC>],[DESC=<DESC>]];
```

Input Parameters

IkeProfId	<i>IkeProfId</i> is the AID IkeProfProvAid .
VER	<i>VER</i> is of type IkeProtocolVersion .
AUTH	<i>AUTH</i> is of type IkeAuthType .
KEY	<i>KEY</i> is a String.
ENC	"NONE" is not allowed here. <i>ENC</i> is of type CipherType and can be one of the following values: "3DES", "AES128", "AES192", "AES256", "BLOWFISH", "CAST", "DES".
HASH	<i>HASH</i> is of type HashType .
DH	<i>DH</i> is of type DHGroup .
LIFESEC	<i>LIFESEC</i> is a Integer.

IPSECMODE	<i>IPSECMODE</i> is of type IpSecEncapMode .
IPSECENC	"NONE" means no encryption, but retain ESP encapsulation for authentication <i>IPSECENC</i> is of type CipherType .
IPSECHASH	<i>IPSECHASH</i> is of type HashType .
IPSECPFS	<i>IPSECPFS</i> is of type DHGroup .
IPSECLIFESEC	<i>IPSECLIFESEC</i> is a Integer.
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String.

Input Example

```
ED-PROF-
IKE:SYS:4:124:::VER=AUTO,AUTH=PSK_STR,KEY=SHAREDKEY,ENC=3DES,HASH=MD5,
DH=DH1,LIFESEC=3600,IPSECMODE=TRANSPORT_ESP,IPSECENC=CAST,IPSECHASH=MD5,
IPSECPFS=DH1,IPSECLIFESEC=3600,DESC="MYIKEPROF" ;
```

Errors

This message generates all of the [Default Errors](#).

ED-PROF-ONT

Name

ED-PROF-ONT: Edit Profile Optical Network Termination

Description

Category: PON **Security:** Memory Admin - by rate

Edit profile - Optical Network Termination.

Related Messages:

[DLT-AVQ](#)
[DLT-IG-VDS1](#)
[DLT-PROF-ONT](#)
[DLT-VCG](#)
[ED-AVO](#)
[ED-ONT](#)
[ED-VCG](#)
[ENT-AVO](#)

[DLT-GOS-ONT](#)
[DLT-ONT](#)
[DLT-RFVID](#)
[DLT-VRP](#)
[ED-GOS-ONT](#)
[ED-RFVID](#)
[ED-VRP](#)
[ENT-GOS-ONT](#)

ENT-IG-VDS1	ENT-ONT
ENT-PROF-ONT	ENT-RFVID
ENT-VCG	ENT-VRP
INIT-ONT-UA	INIT-REG-ONT
REPT ALM AVO	REPT ALM ONT
REPT ALM RFVID	REPT ALM VCG
REPT ALM VRP	REPT EVT ONT
REPT RMV AVO	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
ED-PROF-ONT: [TID]:<OntProfAid>:[CTAG]:::[ [VENDOR=<VENDOR>, ]
[ NUMPOTS=<NUMPOTS>, ] [ NUMDS1=<NUMDS1>, ] [ NUMGETH=<NUMGETH>, ]
[ NUMETH=<NUMETH>, ] [ NUMHPNA=<NUMHPNA>, ] [ NUMRFVID=<NUMRFVID>, ] [ DESC=<DESC> ] ]
;
```

Input Parameters

OntProfAid ONT profile number. *OntProfAid* is the AID [OntProfAid](#).

VENDOR The Vendor ID for ONTs using this profile. This is a string up to 4 characters long. *VENDOR* is a String.

NUMPOTS The number of POTS ports supported on the ONT; the supported values are 0,2,4 and 8. *NUMPOTS* is a Integer.

NUMDS1 The number of DS1 ports supported on the ONT. {0-12} *NUMDS1* is a Integer.

NUMGETH The number of Gigabit Ethernet ports supported on the ONT. {0-12} *NUMGETH* is a Integer.

NUMETH The number of Fast Ethernet ports supported on the ONT. {0-12} *NUMETH* is a Integer.

NUMHPNA The number of HPNA Ethernet ports supported on the ONT. {0-2} *NUMHPNA* is a

Integer.

NUMRFVID The number of RF Video (COAX) output ports supported on the ONT. {0-12}
NUMRFVID is a Integer.

DESC A user-settable description field for this profile, of up to 31 characters. *DESC* is a String.

Input Example

```
ED-PROF-
ONT:SYS:2:124:::VENDOR="CXNK",NUMPOTS=8,NUMDS1=2,NUMGETH=0,NUMETH=2,
NUMHPNA=0,NUMRFVID=1,DESC="SBU";
```

Errors

This message generates all of the [Default Errors](#).

ED-PROF-TRF

Name

ED-PROF-TRF: Edit Profile Traffic

Description

Category: Virtual Facility **Security:** Memory Admin - by rate

This command allows the user to modify an existing traffic profile. Only non service-affecting parameters may be edited.

Related Messages:

[ACT-PROTN-VC](#)

[DLT-CRS-VC](#)

[DLT-PP](#)

[ED-CRS-VC](#)

[ENT-CRS-VC](#)

[ENT-PP](#)

[INIT-CSTAT-VC](#)

[INJ-LPBK-VC](#)

[MV-CRS-VC](#)

[OPR-CC-VC](#)

[REPT ALM PP](#)

[REPT EVT VC](#)

[ACT-PROTN-VP](#)

[DLT-CRS-VP](#)

[DLT-PROF-TRF](#)

[ED-CRS-VP](#)

[ENT-CRS-VP](#)

[ENT-PROF-TRF](#)

[INIT-CSTAT-VP](#)

[INJ-LPBK-VP](#)

[MV-CRS-VP](#)

[OPR-CC-VP](#)

[REPT EVT PP](#)

[REPT EVT VP](#)

[REPT RMV PP](#)
[RLS-CC-VC](#)
[RMV-PP](#)
[RTRV-ALM-PP](#)
[RTRV-CRS-VC](#)
[RTRV-CSTAT-VC](#)
[RTRV-PP](#)
[RTRV-VTI](#)

[REPT RST PP](#)
[RLS-CC-VP](#)
[RST-PP](#)
[RTRV-COND-PP](#)
[RTRV-CRS-VP](#)
[RTRV-CSTAT-VP](#)
[RTRV-PROF-TRF](#)

Input Format

```
ED-PROF-
TRF:[ TID ]:<TrfProfAid>:[ CTAG ]:::[ [ ACTIVE=<ACTIVE> , ][ DESC=<DESC> ] ];
```

Input Parameters

- TrfProfAid** Traffic Profile Access Identifier. The address of the specific entry in Traffic Profile table. *TrfProfAid* is the AID [AtmTrfProfProvAid](#).
- ACTIVE** This parameter indicates that the profile may be used for new cross-connect provisioning. Setting ACTIVE=N will prevent the VOD Flow Manager from selecting a traffic profile for flow VC creation when the operator is attempting to "age out" a profile and later delete it. *ACTIVE* is of type [BoolYN](#).
- DESC** Description. A string description of this object, up to 11 characters in length. The string is intended to help users track profiles they create. *DESC* is a String.

Input Example

```
ED-PROF-TRF:SYS1:32:481:::ACTIVE=Y,DESC=DESC;
```

Errors

This message generates all of the [Default Errors](#).

ED-RADIUS

Name

ED-RADIUS: Edit RADIUS

Description

Category: Security**Security:** Memory Admin - by rate

This command is used to provision parameters used for remote user authentication by a RADIUS server. RADIUS is used instead of local authentication when so specified by ED-SYS-SECU.

Related Messages:

[ALW-MSG-SECU](#)
[CANC-CID-SECU](#)
[DLT-TMPLT-SECU](#)
[ED-SYS-SECU](#)
[ED-USER-SECU](#)
[ENT-USER-SECU](#)
[INH-USER-SECU](#)
[REPT EVT SECU](#)
[RTRV-COND-SECU](#)
[RTRV-STATUS](#)
[RTRV-TMPLT-SECU](#)

[ALW-USER-SECU](#)
[CANC-SES-SECU](#)
[DLT-USER-SECU](#)
[ED-TMPLT-SECU](#)
[ENT-TMPLT-SECU](#)
[INH-MSG-SECU](#)
[REPT ALM SECU](#)
[RTRV-ALM-SECU](#)
[RTRV-RADIUS](#)
[RTRV-SYS-SECU](#)
[RTRV-USER-SECU](#)

Input Format

```
ED-
RADIUS:[TID]:::[CTAG]:::[ [AMP=<AMP>, ][AMP2=<AMP2>, ][RADIP=<RADIP>, ]
[ RADPORT=<RADPORT>, ][RAD2IP=<RAD2IP>, ][RAD2PORT=<RAD2PORT>, ]
[ SECRET=<SECRET>, ][TMOUT=<TMOUT>, ][RETRIES=<RETRIES>] ];
```

Input Parameters

AMP	Primary AMP to be used as a RADIUS client. This AMP should have IP connectivity to the RADIUS server. <i>AMP</i> is the AID MsAid . The default value is "NONE".
AMP2	Alternate (fallback) AMP to use for RADIUS client. This AMP should have IP connectivity to the RADIUS server. <i>AMP2</i> is the AID MsNoneAid . The default value is "NONE".
RADIP	IP address of the primary RADIUS server. <i>RADIP</i> is the AID IpAid . The default value is "0.0.0.0".
RADPORT	UDP port for the primary RADIUS server. <i>RADPORT</i> is a Integer. The default value is "1812".
RAD2IP	IP address of the alternate (fallback) RADIUS server. <i>RAD2IP</i> is the AID IpAid . The default value is "0.0.0.0".
RAD2PORT	UDP port for the alternate (fallback) RADIUS server. <i>RAD2PORT</i> is a Integer. The default value is "1812".
SECRET	The "shared secret" known to both RADIUS client and server. This is an ascii string of up to 16 characters. <i>SECRET</i> is a String. The default value is """.
TMOUT	Timeout in seconds when waiting for a response from the RADIUS server. The timeout must be in the interval [5,60]. <i>TMOUT</i> is a Integer. The default value is "8".
RETRIES	Number of times to retry a request after timeout. Retries must be in the interval [0,5].

RETRIES is a Integer. The default value is "2".

Input Example

```
ED-RADIUS:SYS3::34:::AMP=N1-1-
MS,AMP2=None,RADIP=209.205.171.22,RADPORT=1812,
RAD2IP=209.206.171.22,RAD2PORT=1812,SECRET="ARADSHAREDSECRET",TMOUT=20,
RETRIES=3;
```

Errors

This message generates all of the [Default Errors](#).

ED-RFVID

Name

ED-RFVID: Edit Rf-Video

Description

Category: PON **Security:** Memory Admin - by rate

This command modifies an Rf-Video port on an ONT. The Rf-Video port is the port where the RF-Video signal is sent from the ONT to the subscriber coax cable.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-VCG	ED-VRP
ENT-AVO	ENT-GOS-ONT
ENT-IG-VDS1	ENT-ONT
ENT-PROF-ONT	ENT-RFVID
ENT-VCG	ENT-VRP
INIT-ONT-UA	INIT-REG-ONT
REPT ALM AVO	REPT ALM ONT
REPT ALM RFVID	REPT ALM VCG

REPT ALM VRP	REPT EVT ONT
REPT RMV AVO	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
ED-
RFVID:[TID]:<OntPortAid>:[CTAG]:::[ [ ENONBAT=<EONBAT> , ] [ DESC=<DESC> ] ]:
[ <PST> , [ <SST> ];
```

Input Parameters

OntPortAid	Rf-Video Port Access Identifier. The address of the RFVID port. (The ONT port number must be equal to 1.) <i>OntPortAid</i> is the AID OntPortAid .
EONBAT	For ONT ports, this parameter specifies the behavior the port when the ONT is running on battery backup, and overrides the default (ONTRFVIDONBAT) specified by ED-SYS. <i>This feature is enabled in C7 release 5.2</i> <i>EONBAT</i> is of type OntPortPwrOpt .
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String.
PST	Primary Service State. This is the service state which the user wants the entity to transition into. <i>PST</i> is of type PrimaryStateChg .
SST	Secondary Service State. The only secondary service state which is provisionable is SB. It only applies when the PST is OOS. <i>SST</i> is of type SecondaryStateChgSB .

Input Example

```
ED-RFVID:SYS:N2-4-6-1-18-
1:346:::ENONBAT=USEDEF,DESC="DESCRIPTION":OOS,SB;
```

Errors

This message generates all of the [Default Errors](#).

ED-RMTDEV

Name

ED-RMTDEV: Edit RMTDEV

Description

Category: System **Security:** Memory Admin - by rate

Edit Remote Device.

Input Format

```
ED-
RMTDEV: [TID]:<RmtDevAid>:[CTAG]:::[ [SERIAL=<SERIAL>, ][DEVNAME=<DEVNAME>, ]
[DEVTYPE=<DEVTYPE>, ][MGMTIP=<MGMTIP>, ][PLOCN=<PLOCN>, ]
[SAMENODE=<SAMENODE>, ][SIPVCG=<SIPVCG>] ];
```

Input Parameters

RmtDevAid	Remote Device Access Identifier. <i>RmtDevAid</i> is the AID RmtDevAid .
SERIAL	The remote device serial number. This may correspond to a backplane identifier, or some other means of identifying the physical piece of equipment. <i>SERIAL</i> is a String.
DEVNAME	The name of the remote device. This could be the CLLI code of a network element, or an arbitrary name assigned to the device <i>DEVNAME</i> is a String.
DEVTYPE	The type of the Remote Device. <i>DEVTYPE</i> is of type RmtDeviceType .
MGMTIP	The IP address(es) of the device to which an operator or the CMS can connect. <i>MGMTIP</i> is the AID IpAid .
PLOCN	The identifier(s) of the physical port(s) to which the remote device is connected. This can include in-band ports such as a GE or OCn port, or a port on the AMP. <i>PLOCN</i> is the AID RmtDevDiscAid .
SAMENODE	This indicates if the device is considered part of the same node for management purposes. In a general sense, a node refers to co-located equipment of performing a collective function. <i>SAMENODE</i> is of type BoolYN .
SIPVCG	The SIP VCG created for managing SIP-based subscribers. The SIP VCG is required if this device will use a PSTN gateway capabilities of the C7 <i>SIPVCG</i> is the AID IgAid .

Input Example

```
ED-RMTDEV:SYS3:N1-1-
RMT3:342:::SERIAL=082839283,DEVNAME=MYF5,DEVTYPE=F5,
MGMTIP=10.1.1.1,PLOCN=N1-1-1-1,SAMENODE=N,SIPVCG=N1-1-IG3;
```

Errors

This message generates all of the [Default Errors](#).

ED-SERIAL

Name

ED-SERIAL: ED SERIAL

Description

Category: Management Interface **Security:** System Administration

This command set the baud rate parameters associated with the specified serial port.

Defined by Calix.

Related Messages:

[ACT-CRS-OW](#)
[ED-IFCONFIG](#)
[RTRV-CRS-OW](#)
[RTRV-SERIAL](#)

[DLT-CRS-OW](#)
[ENT-CRS-OW](#)
[RTRV-IFCONFIG](#)

Input Format

```
ED-
SERIAL:[TID]:<SerialPortAid>:[CTAG]::[<PARITY>],[<STOPB>],[<BRATE>],
[<DATABITS>]:[CHAP=<CHAP>];
```

Input Parameters

SerialPortAid Serial Port Access Identifier. The address of the serial port to be set. *SerialPortAid* is the AID [SerialPort](#).

PARITY Parity. This parameter indicate the parity for the serial port. If parameter is not entered, then value does not change from current values. *PARITY* is of type [Parity](#). The default value is "NONE".

STOPB STOP Bits. The number of stop bits used for this port. *STOPB* is of type [StopBits](#). The

default value is "1".

- BRATE** Baud RATE. This parameter indicates the baud rate for the serial port. If parameter is not entered, then value does not change from current values. *BRATE* is of type [BaudRate](#). The default value is "38400".
- DATABITS** DATA BITS. The number of data bits allowed. *DATABITS* is of type [DataBits](#). The default value is "8".
- CHAP** Channel Access Privileges. This parameter indicates the privileges which are allowed on the serial port. At system initialization the default value is FULLACC for all serial ports. *CHAP* is of type [CidSecurity](#). The default value is "FULLACC".

Input Example

```
ED-SERIAL:SYS1:N9-3-MS-S1:323::ODD,1,2400,8:CHAP=FULLACC;
```

Errors

This message generates all of the [Default Errors](#).

ED-SHELF

Name

ED-SHELF: Edit Shelf

Description

Category: System **Security:** System Administration

This command may be used to change the Shelf AID associated with the shelf identified in the BackplaneNo field. It may also be used to modify parameters associated with power handling within the shelf.

Defined by Calix and modeled after ED-rr in GR-199.

Related Messages:

[ALW-STBY-UPGRD](#)
[DLT-NODE](#)
[ED-NODE](#)
[ED-SYS-SECU](#)
[ENT-SHELF](#)
[INIT-SYS](#)

[DLT-ALM-SHELF](#)
[ED-DAT](#)
[ED-SYS](#)
[ENT-NODE](#)
[INH-STBY-UPGRD](#)
[OPR-BAR](#)

[REPT ALM SHELF](#)
[REPT EVT SHELF](#)
[RTRV-BAR](#)
[RTRV-HDR](#)
[RTRV-NODE](#)
[RTRV-SYS](#)

[REPT EVT MEM](#)
[RTRV-ALM-SHELF](#)
[RTRV-COND-SHELF](#)
[RTRV-NETYPE](#)
[RTRV-SHELF](#)
[RTRV-SYS-SECU](#)

Input Format

```
ED-
SHELF:[ TID ]:<ShelfAid>:[ CTAG ]::[ <BackplaneNo> ]:[ [ PWRCAT3=<PWRCAT3>, ]
[ DCIN=<DCIN>, ] [ EXPRESSLINKS=<EXPRESSLINKS>, ] [ INCL=<INCL> ] ];
```

Input Parameters

ShelfAid	Shelf Access Identifier. If a BackplaneNo is NOT specified, this is the address of the shelf where the shelf parameters are to be modified. If a BackplaneNo is specified, this is the new Shelf AID to be assigned to the shelf with this backplane number. <i>ShelfAid</i> is the AID ShelfAid .
BackplaneNo	If specified, this is the serial number of the backplane for the shelf to be edited. The shelf will have its Shelf AID updated to the one given in the ShelfAid field. If this field is not given the command is applied to the shelf identified in the ShelfAid field. Note that to input a HEX-value, the leading 2 characters shoule be 0x (zero x). Otherwise, the value will be processed as a Decimal-value. <i>BackplaneNo</i> is a String.
PWRCAT3	Power Category 3 Shutdown time. This is the time equipment assigned to power category 3 is allowed to remain powered up after the system switches to emergency backup power. <i>PWRCAT3</i> is of type PowerCat3Time .
DCIN	DC Inputs. This parameter indicates the type of DC power being supplied to the shelf. <i>DCIN</i> is of type DCIN .
EXPRESSLINKS	Express Links. When set to Y, this will cause the system will attempt to save bandwidth on cross-connects the following criteria: 1) Connection is of type T0, T1, VP or VC. 2) Connection is on an intermediate transport shelf that is ATM-capable. 3) Source and destination are on slots 9-12, CSA and CSB. 4) Connection is bi-directional, or a unicast VOD connection. 5) Connection is unprotected or is going to an unprotected destination. Note that INCL=Y must also be specified when changing this parameter, as the shelf will reboot as a result! <i>EXPRESSLINKS</i> is of type BoolYN .
INCL	Inclusive. This parameter must be specified to force changing the value of EXPRESSLINKS. <i>INCL</i> is of type BoolYN .

Input Example

```
ED-SHELF:SYS1:N6-
5:CTAG::123456:PWRCAT3=30,DCIN=DCA,EXPRESSLINKS=N,INCL=N;
```

Errors

This message generates all of the [Default Errors](#).

ED-SIP

Name

ED-SIP: Edit Session Initiation Protocol

Description

Category: VOIP **Security:** Maintenance - full

This command is used to edit a Session Initiation Protocol IG.

Input Format

```
ED-SIP: [TID]:<IgAid>:[CTAG]:::[ [ PRICFGURL=<PRICFGURL>, ]
[ SECCFGURL=<SECCFGURL>, ][ HOSTPROTO=<HOSTPROTO>, ][ IP=<IP>, ][ IPMSK=<IPMSK>, ]
[ GADDR=<GADDR>, ][ MAXACTCALLS=<MAXACTCALLS>, ][ OPTION82=<OPTION82> ] :[ <PST> ]
;
```

Input Parameters

IgAid	Access Identifier for the SIP Group. <i>IgAid</i> is the AID IgAid .
PRICFGURL	PRImary ConFiGuration Uniform Resource Locator. URL of the configuration needed to access the SIP network. Currently TFTP access and direct registration with the SIP registrar are supported. The value can take following 1 of 2 formats: "TFTP: //IP address of TFTP server/Path to Config File" or "REGISTER SIP: IP address of SIP registrar" <i>PRICFGURL</i> is a String.
SECCFGURL	SECondary ConFiGuration Uniform Resource Locator. URL of backup network access configuration. The value takes the same format as <i>PRICFGURL</i> . <i>SECCFGURL</i> is a String.
HOSTPROTO	Protocol to be used to obtain the IP address for the host for SIP lines in the group. <i>HOSTPROTO</i> is of type SipHostProto .
IP	IP address. Statically assigned IP address associated with the group. <i>IP</i> is the AID IpAid .
IPMSK	Subnet IP MASK. <i>IPMSK</i> is the AID IpAid .
GADDR	Subnet IP GATEWAY Address. Statically assigned IP address associated with the group's gateway. <i>GADDR</i> is the AID IpAid .
MAXACTCALLS	Maximum number of concurrent calls (up to 384) for this IG. <i>MAXACTCALLS</i> is a Integer.

OPTION82	Indicates whether DHCP Relay Option 82 is enabled. <i>OPTION82</i> is of type Option82 .
PST	<i>PST</i> is of type PrimaryStateChg .

Input Example

```
ED-SIP:SYS:N1-2-IG3:322:::  
PRICFGURL="TFTP //192.168.22.123/SIPCONFIGS/SWITCH1.TXT",  
SECCFGURL="TFTP  
//192.168.21.128/SIPCONFIGS/SWITCH1.TXT",HOSTPROTO=STATIC,  
IP=192.168.22.123,IPMSK=255.255.255.0,GADDR=192.168.22.1,MAXACTCALLS=255,  
OPTION82=N:OOS;
```

Errors

This message generates all of the [Default Errors](#).

ED-SIPT0

Name

ED-SIPT0: Edit SIPT0

Description

Category: VOIP **Security:** Memory Admin - by rate

This command is used to edit a Session Initiation Protocol T0.

Input Format

```
ED-  
SIPT0:[TID]:<TOAid>:[CTAG]:::[[SIPIG=<SIPIG>,][USER=<USER>],[PID=<PID>,  
][HOSTPROTO=<HOSTPROTO>],[IP=<IP>],[IPMSK=<IPMSK>],[GADDR=<GADDR>]];
```

Input Parameters

TOAid	<i>TOAid</i> is the AID SipT0PortAid .
SIPIG	SIP Group AID. <i>SIPIG</i> is the AID IgAid .
USER	User Name. User name for the subscriber. This string is used to form the UserId field to the left of the @ in the SIP URL. It is also used as the username for authentication protocols. The value is a character string up to 20 bytes. It must either be a telephone number or the AID of a legacy telephony interface provided by a C7. <i>USER</i> is a String.

PID	Password. Password for authorization of the subscriber. The value is a character string up to 20 bytes. <i>PID</i> is a String.
HOSTPROTO	<i>HOSTPROTO</i> is of type SipT0HostProto .
IP	<i>IP</i> is the AID IpAid .
IPMSK	<i>IPMSK</i> is the AID IpAid .
GADDR	<i>GADDR</i> is the AID IpAid .

Input Example

```
ED-SIPT0:SYS2:N1-5-6-3-1:123:::SIPIG=N1-2-IG3,USER=N4-1-IG2-
7,PID=GRF33,
HOSTPROTO=GROUP,IP=0.0.0.0,IPMSK=0.0.0.0,GADDR=0.0.0.0;
```

Errors

This message generates all of the [Default Errors](#).

ED-SIPVCG

Name

ED-SIPVCG: Edit SIPVCG

Description

Category: VOIP **Security:** Memory Admin - by rate

This command is used to edit a Session Initiation Protocol VCG.

Input Format

```
ED-
SIPVCG:[TID]:<IgAid>:[CTAG]:::[ [CTLIP=<CTLIP>,][MAXACTCALLS=<MAXACTCALLS>] ]
:[<PST>];
```

Input Parameters

IgAid	Ig Number within a shelf. <i>IgAid</i> is the AID IgAid .
CTLIP	Control IP Address. IP address for control message transport. This IP address is used to contact both the SIP registrar and the SIP user agents associated with the IG. <i>CTLIP</i> is the AID IpAid .

MAXACTCALLS *MAXACTCALLS* is a Integer.

PST *PST* is of type [PrimaryStateChg](#).

Input Example

```
ED-SIPVCG:SYS1:N1-2-
IG3:321:::CTLIP=131.213.41.146,MAXACTCALLS=255:OOS;
```

Errors

This message generates all of the [Default Errors](#).

ED-SNMP

Name

ED-SNMP: Edit SNMP

Description

Category: Management Interface **Security:** Memory Admin - by rate

Instructs an C7 to set the global attributes associated with SNMP.

Defined by Calix.

Input Format

```
ED-
SNMP:[TID]:::[CTAG]:::[[SNMPVER=<SNMPVER>,[ROCOMMSTRING=<ROCOMMSTRING>,
[TRAPPORt=<TRAPPORt>]]];
```

Input Parameters

SNMPVER SNMP Version. *SNMPVER* is of type [SnmpVersion](#) and is listable.

ROCOMMSTRING Read-Only Community String. This identifies the Community String (up to 20 characters) that must be used by the SNMP manager when performing SNMP Get operations on the C7 network. *ROCOMMSTRING* is a String. The default value is "public".

TRAPPORt The Management port through which Traps are emitted. *TRAPPORt* is the AID [IfConfigAidNone](#).

Input Example

```
ED-
SNMP:SYS1::23:::SNMPVER=V2C&V3,ROCOMMSTRING="CALIX",TRAPPORt=N1-
1-MS-E2;
```

Errors

This message generates all of the [Default Errors](#).

ED-SNMP-TRAP

Name

ED-SNMP-TRAP: Edit SNMP TRAP

Description

Category: Management Interface **Security:** Memory Admin - by rate

Instructs an C7 to set the attributes associated with an SNMP trap recipient.

Defined by Calix.

Input Format

```
ED-SNMP-
TRAP:[TID]:<TrapAid>:[CTAG]:::[ [IP=<IP>,][UDPPORT=<UDPPORT>,
[COMMSTRING=<COMMSTRING>,[SNMPVER=<SNMPVER>,[PID=<PID>]];
```

Input Parameters

TrapAid	SNMP Trap Access Identifier. This identifies a particular trap recipient. <i>TrapAid</i> is the AID TrapAid .
IP	Recipient IP address. <i>IP</i> is the AID IpAid .
UDPPORT	UDP Port. This parameter identifies the port where the trap is to be sent. <i>UDPPORT</i> is of type UdpPort .
COMMSTRING	Community String. This identifies the Community String (up to 20 characters) to be used when sending traps. <i>COMMSTRING</i> is a String.
SNMPVER	SNMP Version. <i>SNMPVER</i> is of type SnpVersion .
PID	Password, up to 20 characters. This parameter is applicable only if the SNMPVER is V3. <i>PID</i> is not displayed on retrieval. <i>PID</i> is a String.

Input Example

```
ED-SNMP-TRAP::2:23:::IP=209.24.7.1,UDPPORT=162,COMMSTRING="C7
TRAPS",
SNMPVER=V2C,PID="V3PID";
```

Errors

This message generates all of the [Default Errors](#).

ED-SSH

Name

ED-SSH: Edit SSH

Description

Category: Security **Security:** Memory Admin - by rate

This command is used to provision Secure access parameters for the C7 SSH (Secure Shell) server.

Input Format

```
ED-SSH:[TID]:::[CTAG]:::[ [ HASH=<HASH> , ][ CIPHER=<CIPHER> ] ] ;
```

Input Parameters

HASH The allowed hashes or MACs (Message Authentication Codes). *HASH* is of type [SshHash](#) and is listable.

CIPHER The allowed encryption schemes. *CIPHER* is of type [SshCipher](#) and is listable.

Input Example

```
ED-SSH:SYS1::123:::HASH=SHA1,CIPHER=3DES&AES&BLOWFISH;
```

Errors

This message generates all of the [Default Errors](#).

ED-STP-GROUP

Name

ED-STP-GROUP: Edit Spanning Tree Protocol GROUP

Description

Category: IP **Security:** Memory Admin - by rate

Edit a Spanning Tree Group.

Input Format

```
ED-STP-GROUP:[TID]:<StpGroupAid>:[CTAG]:::[ HELLOTMR=<HELLOTMR>, ]
[ FWDDLYTMR=<FWDDLYTMR>, ][ MAXAGETMR=<MAXAGETMR>, ][ PRIO=<PRIO> ];
```

Input Parameters

StpGroupAid Spanning Tree Group Access Identifier. *StpGroupAid* is the AID [StpGroupAid](#).

HELLOTMR *HELLOTMR* is a Integer.

FWDDLYTMR Monitors the time spent by a port in the learning and listening states. The timeout value is the forward delay parameter of the switches. This value is in Seconds. *FWDDLYTMR* is a Integer.

MAXAGETMR Measures the age of the received protocol information recorded for a port and ensure that this information is discarded when its age limit exceeds the value to the maximum age parameter recorded by the switch. The timeout value for this timer is the maximum age parameter of the switches. This values is in Seconds. *MAXAGETMR* is a Integer.

PRIO Priority of the Spanning Tree Group. *PRIO* is a Integer.

Input Example

```
ED-STP-GROUP:SYS:N1-1-VB1-
STP1:1234:::HELLOTMR=20,FWDDLYTMR=30,MAXAGETMR=40,
PRIO=1;
```

Errors

This message generates all of the [Default Errors](#).

ED-SYS

Name

ED-SYS: Edit System

Description

Category: System **Security:** System Administration

This command allows parameters which apply to a C7 network as a whole to be provisioned.

Defined by Calix.

Related Messages:

ALW-STBY-UPGRD	DLT-ALM-SHELF
DLT-NODE	ED-DAT
ED-NODE	ED-SHELF
ED-SYS-SECU	ENT-NODE
ENT-SHELF	INH-STBY-UPGRD
INIT-SYS	OPR-BAR
REPT ALM SHELF	REPT EVT MEM
REPT EVT SHELF	RTRV-ALM-SHELF
RTRV-BAR	RTRV-COND-SHELF
RTRV-HDR	RTRV-NETYPE
RTRV-NODE	RTRV-SHELF
RTRV-SYS	RTRV-SYS-SECU

Input Format

```
ED-SYS : [ TID ] :: [ CTAG ] :: : [ [ ADMIN=<ADMIN> , ] [ TDMBWC=<TDMBWC> , ]
[ DEFONTPROF=<DEFONTPROF> , ] [ VCPOOL=<VCPOOL> , ] [ VPPOOL=<VPPOOL> , ]
[ PROVLOCK=<PROVLOCK> , ] [ NTWKNAME=<NTWKNAME> , ]
[ REVERTENABLED=<REVERTENABLED> , ] [ ONTETHONBAT=<ONTETHONBAT> , ]
[ ONTRFVIDONBAT=<ONTRFVIDONBAT> ] ] ;
```

Input Parameters

ADMIN	Administrative Master. The Administrative Master is the location where data which is required to be maintained across the network is controlled. <i>ADMIN</i> is the AID ShelfAid .
TDMBWC	Enable TDM bandwidth constraint. If set to Y, this will require that all TDM connections created using the ENT-CRS-T0 command to be routed via links that

have some bandwidth reserved for the TDM Bandwidth Constraint Id. *TDMBW*C is of type [BoolYN](#).

DEFONTPROF	Default ONT Profile. If set, this ONT profile will be used when not specified in ENT-ONT. <i>DEFONTPROF</i> is the AID SystemId1 .
VCPOOL	VCPOOL : Protected VC Label Space. The value for <i>VCPOOL</i> is an VPI number between 1 and 4094. VC Label space is defaulted to 4094 if no value is specified. This value can be modified to any available VPI number. Once <i>VCPOOL</i> is modified, the modified value will be used for subsequent protected connections, but will not modify any existing connections. <i>VCPOOL</i> is a Integer.
VPPOOL	VPPOOL : Protected VP Label Space. This label space range is used for internal VP creation. The values entered represent the start and end of the label space range and it can be any available range of VPI numbers. Once <i>VPPOOL</i> is modified, the modified values will be used for subsequent protected connections, but will not modify any existing connections. The default range for <i>VPPOOL</i> is 4000&&4090. <i>VPPOOL</i> is a Integer and is rangeable.
PROVLOCK	Provisioning Lock <i>PROVLOCK</i> is of type BoolYN .
NTWKNAME	Network Name - 20 character string. <i>NTWKNAME</i> is a String.
REVERTENABLED	Revert Enabled. The C7 periodically determines whether or not there is enough flash space available to support an upgrade and a full revert. If the C7 determines that there is not enough flash space available, the PROVCAPTHR or PROVCAPOVF alarm is raised. These alarms may be cleared by disabling the full revert capability by setting this flag to 'N'. <i>REVERTENABLED</i> is of type BoolYN .
ONTETHONBAT	This is the system default for determining if ONT ETH ports should remain enabled when the ONT is operating on battery backup. The default can be overridden on a per ONT port basis. <i>This feature is enabled in C7 release 5.2</i> <i>ONTETHONBAT</i> is of type BoolYN .
ONTRFVIDONBAT	This is the system default for determining if ONT RFVID ports should remain enabled when the ONT is operating on battery backup. The default can be overridden on a per ONT port basis. <i>This feature is enabled in C7 release 5.2</i> <i>ONTRFVIDONBAT</i> is of type BoolYN .

Input Example

```
ED-SYS:SYS1::3243:::ADMIN=N3-
1,TDMBW=Y,DEFONTPROF=1,VCPOOL=1,VPPOOL=1&&2,
PROVLOCK=N,NTWKNAME=NTWK1,REVERTENABLED=Y,ONTETHONBAT=N,ONTRFVIDONBAT=N;
```

Errors

This message generates all of the [Default Errors](#).

ED-SYS-SECU

Name

ED-SYS-SECU: Edit System Security

Description

Category: Security **Security:** Security Administrator

This command is used for system-wide security configuration, including preferences for password rules.

The password is an ASCII string (excluding those characters that represent TL1 syntax) that may be required to contain non-alphabetic and/or special characters (i.e. @ # \$ % [] ~ ! _ | ?) according to the rules provisioned with this command.

Related Messages:

ALW-MSG-SECU	ALW-STBY-UPGRD
ALW-USER-SECU	CANC-CID-SECU
CANC-SES-SECU	DLT-ALM-SHELF
DLT-NODE	DLT-TMPLT-SECU
DLT-USER-SECU	ED-DAT
ED-NODE	ED-RADIUS
ED-SHELF	ED-SYS
ED-TMPLT-SECU	ED-USER-SECU
ENT-NODE	ENT-SHELF
ENT-TMPLT-SECU	ENT-USER-SECU
INH-MSG-SECU	INH-STBY-UPGRD
INH-USER-SECU	INIT-SYS
OPR-BAR	REPT ALM SECU
REPT ALM SHELF	REPT EVT MEM
REPT EVT SECU	REPT EVT SHELF
RTRV-ALM-SECU	RTRV-ALM-SHELF
RTRV-BAR	RTRV-COND-SECU
RTRV-COND-SHELF	RTRV-HDR
RTRV-NETYPE	RTRV-NODE
RTRV-RADIUS	RTRV-SHELF
RTRV-STATUS	RTRV-SYS
RTRV-SYS-SECU	RTRV-TMPLT-SECU
RTRV-USER-SECU	

Input Format

```
ED-SYS-SECU:[ TID ] :: [ CTAG ] :: : [ [ PIDLEN=<PIDLEN> , ] [ SPECIAL=<SPECIAL> , ]
[ NONALPHA=<NONALPHA> , ] [ SUBSTR=<SUBSTR> , ] [ MXINV=<MXINV> , ] [ SSH=<SSH> , ]
[ AUTH=<AUTH> , ] [ AMPROUTER=<AMPROUTER> ] ] : [ <BANNER> ] ;
```

Input Parameters

PIDLEN	PID LENgth. Minimum number of password characters - an integer in the range [4,10]. <i>PIDLEN</i> is a Integer. The default value is "6".
SPECIAL	SPECIAL characters. Minimum number of special characters (i.e. "@ # \$ % [] ~ ! _ ? ") Range is from 0-10. <i>SPECIAL</i> is a Integer. The default value is "1".
NONALPHA	NON-ALPHAnumeric characters. Minimum number of non-alpha characters (special or numeric). Range is from 0-10. <i>NONALPHA</i> is a Integer. The default value is "2".
SUBSTR	SUBSTRing. Is the UID allowed as a substring of the PID ? <i>SUBSTR</i> is of type BoolYN . The default value is "N".
MXINV	MaXimum INValid login attempts. A telnet session will be dropped upon this number of successive login failures. $2 \leq MXINV \leq 6$. <i>MXINV</i> is a Integer. The default value is "3".
SSH	Activate Secure Shell for all login channels. <i>SSH</i> is of type BoolYN . The default value is "N".
AUTH	User Authentication Mode. <i>AUTH</i> is of type UserAuthMode . The default value is "LOCAL".
AMPROUTER	AMP as ROUTER. If enabled, static routes provisioned on an AMP will be used to route incoming packets from one management interface to another. If disabled, the AMP functions only as an IP host. <i>AMPROUTER</i> is of type BoolYN . The default value is "N".
BANNER	BANNER String of up to 79 characters displayed upon each login. <i>BANNER</i> is a String. The default value is "*** WELCOME TO THE CALIX C7. AUTHORIZED ACCESS ONLY. ***".

Input Example

```
ED-SYS-
SECU:SYS3::34:::PIDLEN=4,SPECIAL=2,NONALPHA=2,SUBSTR=N,MXINV=3,SSH=N,
AUTH=LOCAL,AMPROUTER=Y:"SECURITY BANNER";
```

Errors

This message generates all of the [Default Errors](#).

Name

ED-T0: Edit Digital Signal Zero

Description

Category: DS0 Facility **Security:** Memory Admin - by rate

This command edits parameters associated with a DS0 facility.

Defined in GR 199.

Related Messages:

[DLT-CRS-T0](#)
[ENT-CRS-T0](#)
[REPT ALM T0](#)
[REPT RMV T0](#)
[RMV-T0](#)
[RTRV-ALM-T0](#)
[RTRV-CRS-T0](#)
[RTRV-T0](#)

[DLT-T0](#)
[ENT-T0](#)
[REPT EVT T0](#)
[REPT RST T0](#)
[RST-T0](#)
[RTRV-COND-T0](#)
[RTRV-CSTAT-T0](#)

Input Format

```
ED-
T0:[TID]:<T0Aid>:[CTAG]:::[ [GSFN=<GSFN>, ][RTLP=<RTLP>, ][TTLP=<TTLP>, ]
[ Z=<Z>, ][EBSLVL=<EBSLVL>, ][EFTT=<EFTT>, ][RATE=<RATE>, ][EC=<EC>, ]
[ ZCS=<ZCS>, ][SC=<SC>, ][TIMEOUT=<TIMEOUT>, ][LLBE=<LLBE>, ]
[ DDSTEST=<DDSTEST>, ][DESC=<DESC> ]:[ <PST> ], [ <SST> ];
```

Input Parameters

T0Aid	T0 Port Access Identifier. The address of the T0 port for which the parameters are being modified. <i>T0Aid</i> is the AID TwentyFourPortLuAid .
GSFN	General Signaling Function. This indicates the signaling used by the T0 port, such as loop start, ground start, etc. Note: 4DU is valid for the OCUDPx6 line unit. 4D0 is valid for the DS0DPx6 line unit. <i>GSFN</i> is of type GenSigFunction .
RTLP	Receive Transmission Level Point. Transmission level point for receiving from the equipment. The transmission level point is the decibel value of the ratio of the power of a 1004 Hz signal at a point to the power of the same signal at a reference point on the digital side of the codec. Therefore, an increase in the RTLP will result in a gain toward the analog side. The default is set to match the standard settings for an RPOTS card. <i>RTLP</i> is of type Rlp . The default value is "-2.0".
TTLP	Transmit Transmission Level Point. Transmission level point for transmitting toward the equipment. The transmission level point is the decibel value of the ratio of the power of a 1004 Hz signal at a point to the power of the same signal at a reference point on the digital side of the codec. Therefore, an increase in the TTLP will result in a gain toward the digital side. The default is set to match the standard settings for an RPOTS card. <i>TTLP</i> is of type

[Tlp](#). The default value is "-2.0".

Z	Impedance. This parameter indicates the expected impedance of the line in Ohms. Z is of type ImpedanceOhms .
EBSLVL	Electronic Business Service LeVeL This attribute is only applicable to Nortel's Electronic Business Service. It specifies the level of the secondary signaling channel. <i>EBSLVL</i> is of type EBSLvl .
EFTT	Enable Full-Time Transmission. This attribute is set to Y to enable transmission of the audio channel even when the subscriber is on-hook and the phone has not recently been rung. <i>EFTT</i> is of type BoolYN .
RATE	Data Rate. (DDS only) Note: Changing rates terminates the loopbacks on an OCUDP line unit due to the required reset on hardware. <i>RATE</i> is of type DdsRate .
EC	Error Correction. (DDS only) This parameter is valid if there are no cross connections. A value of EC=Y is invalid if one cross connection exists for 56 and 64 kbps rates and cross connect must be deleted first. EC=Y is also invalid if two cross connections exist for 2.4, 4.8, 9.6 and 19.2 kbps rates and cross connect must be deleted first. A value of EC=N is invalid if two cross connection exists at any data rates and cross connection must be deleted first. <i>EC</i> is of type BoolYN .
ZCS	Zero Code Supression. (DDS only) <i>ZCS</i> is of type BoolYN .
SC	Secondary Channel. (DDS only) This parameter is only valid for OCUDPx6 line unit. It can be entered for the DS0Dpx6 line unit, but it will be ignored. Note that SC=Y is invalid for 64 kbps rate. Also SC=N is always valid without any restrictions. <i>SC</i> is of type BoolYN .
TIMEOUT	Latching Loopback Timeout (in minutes). (DDS only) If TIMEOUT = 0, Latching loopback continues to operate, but it cancels the timer if active. If TIMEOUT > 0, the new timeout value is applied to the currently active latching loopback or subsequent loopback. If the new timeout value is greater than the previous value, the difference is applied to the currently outstanding timer. If the new timeout value is less than the previous value, the loopback terminates. If the new timeout value is the same as before, no further action is required. <i>TIMEOUT</i> is of type LatchLpbkTimeout .
LLBE	Latching LoopBack Enable. (DDS only) <i>LLBE</i> is of type BoolYN .
DDSTEST	DDS Test Mode (DDS only). The DDS card supports two modes of loop testing: Bipolar (analog) and Logic Near/Far (digital TTY). This parameter indicates which mode is to be used. <i>DDSTEST</i> is of type DdsTest .
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String.
PST	Primary Service State. This is the service state which the user wants the entity to transition into. Note: For OOS, DDS service is disabled. For OCUDP, sealing current is removed. For IS, DDS service is enabled. For OCUDP, sealing current is applied. <i>PST</i> is of type PrimaryStateChg .
SST	Secondary Service State. The only secondary service states which can be changed are redline and SB. The redline state indicates that the line cannot be deleted unless, redline is removed from the service state first. SB indicates that both Tx and Rx should be suspended. <i>SST</i> is of type SecondaryStateChg and is listable.

Input Example

```
ED-T0:SYS5:N5-3-4-
3:234:::GSFN=2LS,RTLP=2.5,TTLP=3.0,Z=600,EBSLVL=AUTO,EFTT=N,
RATE=64,EC=N,ZCS=Y,SC=N,TIMEOUT=0,LLBE=Y,DDSTEST=DIGITAL,
```

DESC="DESCRIPTION":IS,RDLD;

Errors

This message generates all of the [Default Errors](#).

ED-T1

Name

ED-T1: Edit Digital Signal One

Description

Category: DS1 Facility **Security:** Memory Admin - by rate

This command edits parameters associated with a DS1 facility.

Defined in GR 199.

Related Messages:

[DLT-AP-T1](#)
[DLT-GOS-T1](#)
[ED-GOS-T1](#)
[ENT-CRS-T1](#)
[ENT-T1](#)
[OPR-LPBK-T1](#)
[REPT EVT T1](#)
[REPT RST T1](#)
[RMV-T1](#)
[RTRV-ALM-T1](#)
[RTRV-CRS-T1](#)
[RTRV-PM-T1](#)

[DLT-CRS-T1](#)
[DLT-T1](#)
[ENT-AP-T1](#)
[ENT-GOS-T1](#)
[INIT-REG-T1](#)
[REPT ALM T1](#)
[REPT RMV T1](#)
[RLS-LPBK-T1](#)
[RST-T1](#)
[RTRV-COND-T1](#)
[RTRV-GOS-T1](#)
[RTRV-T1](#)

Input Format

ED-
T1:[TID]:<Ds1Aid>:[CTAG]:::[[TYPE=<TYPE> ,][T1MAP=<T1MAP> ,][EQLZ=<EQLZ> ,]
[ATTEN=<ATTEN> ,][PWR=<PWR> ,][FMT=<FMT> ,][LINECDE=<LINECDE> ,][GOS=<GOS> ,]
[PYLDSCRM=<PYLDSCRM> ,][ATMMON=<ATMMON> ,][EXT=<EXT> ,][PDOM=<PDOM> ,]
[NDS0RESVD=<NDS0RESVD> ,][TMGMODE=<TMGMODE> ,][DESC=<DESC>] :[<PST> , [<SST>] ;

Input Parameters

Ds1Aid	T1 Port Access Identifier. The address of the T1 port being modified. <i>Ds1Aid</i> is the AID TwelvePortLuAid .
TYPE	TYPE of T1. This indicates whether the port is to be configured as a DS1 or a T1. <i>TYPE</i> is of type T1Type .
T1MAP	MAPping of the payload signal. When payload signal is a form that may be altered at the T1 port, this parameter specifies the mapping. Otherwise, its value should be NA. <i>T1MAP</i> is of type T1Map .
EQLZ	Equalization. Indicates equalization setting (aka Line Build Out). It applies only when TYPE=DS1. <i>EQLZ</i> is of type Equalization .
ATTEN	ATTENuation. Indicates the attenuation for T1 lines. It applies only when TYPE=T1. <i>ATTEN</i> is of type Attenuation .
PWR	Line PoWeRing. This parameter indicates whether the line is to supply power. <i>PWR</i> is of type T1Pwr .
FMT	DS1 Format. This parameter indicates DS1 signal format. <i>FMT</i> is of type FormatSignal .
LINECDE	Line Code. This is the provisioned DS1 line coding. <i>LINECDE</i> is of type LineCode .
GOS	Grade of Service Access Identifier. This is the T1 Grade of Service which is to be applied to the DS1. <i>GOS</i> is the AID GosAid .
PYLDSCRM	Payload Scrambling. This parameter is set to Y to enable the scrambling of ATM cells. It is only applicable when T1MAP is UNI or NNI. <i>PYLDSCRM</i> is of type BoolYN .
ATMMON	ATM Diagnostic Monitoring. This parameter is set to Y to enable ATM diagnostic monitoring on the STS path. If enabled, an ATM OAM loopback ping is injected on VP0-VC3 to verify point-to-point connectivity with the next line unit. It applies only to ATMNNI and ATMUNI interfaces. <i>ATMMON</i> is of type BoolYN .
EXT	External Interface. This indicates if the T1 is an internal or external path in the network. The value should be set to "Y" when the port is an external interface. It should be set to "N" when the port is connected to other shelves within a network of C7s. This parameter is valid only if T1MAP is NNI. Note that this parameter must be changed independently of others, ie. a separate ED-T1 command is required. <i>EXT</i> is of type BoolYN .
PDOM	Protection DOMain. This is an integer that is used to associate a transport facility into a protection domain that is used for A to Z connection provisioning. The PDOM for each domain must be a unique non-zero integer. The value of 0 is reserved to indicate that the facility is not to be used for A to Z connections. <i>PDOM</i> is of type Pdom .
NDS0RESVD	Number of Reserved DS0s. This parameter indicates the number of sequential DS0s that are to be reserved in a T1 facility that has a non-DS0 mapping for the remainder of its payload. The DS0s reserved are sequential decreasing from time slot 24. This parameter is only applicable when T1MAP is NNI or UNI. <i>NDS0RESVD</i> is a Integer.
TMGMODE	Timing Mode. This parameter selects the timing source for the T1 port transmit signal. TMGMODE defaults to LOOP for ATM interfaces (i.e. T1MAP of UNI or NNI). For non-ATM interfaces, TMGMODE will default to LOOP when FMT=UF, else TMGMODE will default to SOURCE. <i>TMGMODE</i> is of type T1TimingMode .
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String.

- PST** Primary Service State. This is the service state which the user wants the entity to transition into. *PST* is of type [PrimaryStateChg](#).
- SST** Secondary Service State. The only secondary service state which is provisionable is SB. It only applies when the PST is OOS. *SST* is of type [SecondaryStateChgSB](#).

Input Example

```
ED-T1:SYS3:N4-3-5-
2:432:::TYPE=T1,T1MAP=NA,EQLZ=3,ATTEN=0.0,PWR=SINK,FMT=ESF,
LINECDE=B8ZS,GOS=3,PYLDSCRM=N,ATMMON=Y,EXT=Y,PDOM=1,NDS0RESVD=0,
TMGMODE=SOURCE,DESC="DESCRIPTION":OOS,SB;
```

Errors

This message generates all of the [Default Errors](#).

ED-T3

Name

ED-T3: Edit Digital Signal 3

Description

Category: DS3 Facility **Security:** Memory Admin - by rate

This command edits parameters associated with a DS3 facility.

Defined in GR 199.

Related Messages:

DLT-GOS-T3	DLT-T3
ED-GOS-T3	ENT-GOS-T3
ENT-T3	INIT-REG-T3
OPR-LPBK-T3	REPT ALM T3
REPT EVT T3	REPT RMV T3
REPT RST T3	RLS-LPBK-T3
RMV-T3	RST-T3
RTRV-ALM-T3	RTRV-COND-T3
RTRV-GOS-T3	RTRV-PM-T3
RTRV-T3	

Input Format

```
ED-T3:[TID]:<Ds3Aid>:[CTAG]:::[ [INTF=<INTF>,][AIS=<AIS>],[AIST=<AIST>,<br/>[ IDLE=<IDLE>,[ FMT=<FMT>,[ LBO=<LBO>,[ GOS=<GOS>,[ EXT=<EXT>,[ ATM=<ATM>,<br/>[ PYLDSCRM=<PYLDSCRM>,[ ATMMON=<ATMMON>,[ PDOM=<PDOM>,[ TMGMODE=<TMGMODE>,<br/>[ DESC=<DESC> ]:[ <PST> ],[ <SST> ];
```

Input Parameters

Ds3Aid	T3 Port Access Identifier. The address of the T3 port being modified. <i>Ds3Aid</i> is the AID T3Aid .
INTF	Interface Type. The type of interface being provided by the DS3. When the equipment type is DS3-12s the interface type must be CCHAN. When the equipment type is DS3-12p, the interface type must be either NNI or UNI. <i>INTF</i> is of type T3Interface .
AIS	Alarm Indication Signal. Indicates whether AIS is transmitted from the DS3 being provisioned. <i>AIS</i> is of type BoolYN .
AIST	AIS Type. This parameter indicates the type of the AIS signal to be generated/transmitted, and the AIS signal mode expected on input should a failure condition occur. When the card type is a DS3-12p, then only a value of NAS will be accepted. <i>AIST</i> is of type AisType .
IDLE	Idle signal. This parameter indicates the transmission or non-transmission of the IDLE signal. For Ds3S(CCHAN) card IDLE can be transmitted only in the INGRESS direction and not the EGRESS direction. For Ds3 packet card IDLE can be transmitted only in the EGRESS direction. <i>IDLE</i> is of type Idle .
FMT	DS3 Format. This parameter indicates DS3 signal format. <i>FMT</i> is of type FormatT3 .
LBO	Line Build Out. This parameter indicates the line build out setting. <i>LBO</i> is a Integer.
GOS	Grade of Service Access Identifier. This is the T3 Grade of Service which is to be applied to the DS3. <i>GOS</i> is the AID GosAid .
EXT	External Interface. This indicates if the T3 is an internal or external path in the network. The value should be set to "Y" when the port is an external interface. It should be set to "N" when the port is connected to other shelves within a network of C7s. For INTF=CCHAN, EXT must be Y. Note that this parameter must be changed independently of others, ie. a separate ED-T3 command is required. <i>EXT</i> is of type BoolYN .
ATM	ATM Mapping. This parameter indicates how the ATM payload is mapped into the DS3 Frame. If the INTF parameter is set to CCHAN this parameter is invalid. <i>ATM</i> is of type ATMPayload .
PYLDSCRM	Payload Scrambling. This parameter is set to Y to enable the scrambling of ATM cells. If the INTF parameter is set to CCHAN this parameter is invalid. <i>PYLDSCRM</i> is of type BoolYN .
ATMMON	ATM Diagnostic Monitoring. This parameter is set to Y to enable ATM diagnostic monitoring on the STS path. If enabled, an ATM OAM loopback ping is injected on VP0-VC3 to verify point-to-point connectivity with the next line unit. It applies only to ATMNNI and ATMUNI interfaces. <i>ATMMON</i> is of type BoolYN .
PDOM	Protection domain. This is an integer that is used to associate FFPs into a coordinated

protection domain. The PDOM for each domain must be a unique integer. If the INTF parameter is set to CCHAN this parameter is invalid. *PDOM* is of type [Pdom](#).

- TMGMODE** Timing Mode. This parameter selects the timing source for the T3 port transmit signal. TMGMODE defaults to SOURCE. *TMGMODE* is of type [DS3TimingMode](#).
- DESC** DESCription. A user-settable description field, up to 31 characters. *DESC* is a String.
- PST** Primary Service State. This is the service state which the user wants the entity to transition into. *PST* is of type [PrimaryStateChg](#).
- SST** Secondary Service State. The only secondary service state which is provisionable is SB. It only applies when the PST is OOS. *SST* is of type [SecondaryStateChgSB](#).

Input Example

```
ED-T3:SYS32:N189-3-3-
9:292:::INTF=CCHAN,AIS=Y,AIST=NAS, IDLE=OFF, FMT=M23, LBO=3,
GOS=2, EXT=Y, ATM=PLCP, PYLDSCRM=Y, ATMMON=N, PDOM=0, TMGMODE=SOURCE,
DESC="DESCRIPTION":OOS, SB;
```

Errors

This message generates all of the [Default Errors](#).

ED-TGRP

Name

ED-TGRP: Edit Test Group

Description

Category: Loop Testing **Security:** System Administration

This command edits the parameters associated with a Test Group.

Defined by Calix and modeled after ED-rr in GR-199.

Related Messages:

[CHG-SPLIT](#)
[CONN-LPACC-MET](#)
[CONN-TACC-MET](#)
[DISC-TACC](#)
[ED-FPACC](#)

[CONN-FPACC-MET](#)
[CONN-MON](#)
[DISC-FPACC-MET](#)
[DLT-TGRP](#)
[ENT-TGRP](#)

[REPT-STAT](#)
[RTRV-TGRP](#)
[TST-ONT-MET](#)

[RTRV-FPACC](#)
[TST-ITACC-MET](#)

Input Format

```
ED-TGRP:[TID]:<MsAid>:[CTAG]:::[TBUS=<TBUS>];
```

Input Parameters

MsAid Maintenance Slot Access Identifier. The address of the maintenance slot which controls the test bus. *MsAid* is the AID [MsAid](#).

TBUS Test Bus. This parameter indicates which shelves are connected (via wiring) to the maintenance slot which controls the test bus. *TBUS* is the AID [ShelfAid](#) and is listable.

Input Example

```
ED-TGRP:SYS3:N6-1-MS:CTAG::TBUS=N6-2&N6-3;
```

Errors

This message generates all of the [Default Errors](#).

ED-TMG

Name

ED-TMG: Edit Timing

Description

Category: Timing **Security:** Maintenance - full

This command may be used to modify the timing for the System Timing and Derived DS1 Timing on a shelf.

Defined by Calix and modeled after ED-rr in GR-199.

Related Messages:

[OPR-SYNCNSW](#)
[REPT EVT TMG](#)

[REPT ALM TMG](#)
[RLS-SYNCNSW](#)

[RTRV-ALM-TMG](#)
[RTRV-TMG](#)

[RTRV-COND-TMG](#)

Input Format

```
ED-TMG: [ TID ] :<ShelfAid>:[ CTAG ] :::[ [SIMPLEX=<SIMPLEX> , ] [TMREF=<TMREF> , ]  
[EXT=<EXT> , ][PRI=<PRI> , ][SEC=<SEC> , ][RVRTV=<RVRTV> , ][DS1FMT=<DS1FMT> ] ] ;
```

Input Parameters

- ShelfAid** Shelf Access Identifier. The address of the shelf where the timing is to be modified. *ShelfAid* is the AID [ShelfAid](#).
- SIMPLEX** Simplex timing. Set this to TRUE if no redundant Composite Clock or External DS1 timing source is unavailable. This will suppress the alarm that would otherwise be generated due to a secondary timing source failure. *SIMPLEX* is of type [BoolYN](#). The default value is "N".
- TMREF** Timing Reference. This parameter indicates the configuration of the timing system on the C7 shelf. *TMREF* is of type [TimingReference](#).
- EXT** External Timing. When the TMREF is EXTERNAL, this parameter indicates what type of external timing reference is to be used. When the TMREF is LINE, this parameter indicates what timing outputs should be generated. *EXT* is of type [ExtTmg](#). The default value is "CC".
- PRI** Primary Timing Source. When TMREF is LINE, this parameter indicates the AID of the working line of primary timing interface. The working line of this interface supplies the source for the derived DS1 generated by the CSA RAP. The protect line of this interface supplies the source for the derived DS1 generated by the CSB RAP. When TMREF is EXTERNAL, it indicates the source of the derived DS1 generated by the CSA RAP -- NONE indicates that no derived DS1 is to be generated. *PRI* is the AID [PortNoneAid](#).
- SEC** Secondary Timing Source. When TMREF is LINE, this parameter indicates the AID of the working line of the secondary timing interface. When both working and protect of the primary timing interface have failed, this interface is used as the system timing source. Also, when the primary timing interface has failed, the working line of the secondary interface supplies the source for the derived DS1 generated by the CSA RAP. The protect line of the secondary interface supplies the source for the derived DS1 generated by the CSB RAP. When TMREF is EXTERNAL, it indicates the source of the derived DS1 generated by the CSB RAP -- NONE indicates that no derived DS1 is to be generated. *SEC* is the AID [PortNoneAid](#).
- RVRTV** Revertive. This parameter is Y if timing should revert to the primary timing source when the primary timing source is restored after a failure. *RVRTV* is of type [BoolYN](#). The default value is "N".
- DS1FMT** DS1 Format. This parameter indicates the format for the transmitted and/or received timing DS1 signals. If both are used both formats must be the same. *DS1FMT* is of type [TmgDS1Fmt](#). The default value is "EFSNS".

Input Example

```
ED-TMG::N4-5:3234:::SIMPLEX=N,TMREF=EXTERNAL,EXT=DS1,PRI=N3-2-3-4,
```

SEC=N3-4-3-2 , RVRTV=Y , DS1FMT=ESFNS ;

Errors

This message generates all of the [Default Errors](#).

ED-TMPLT-SECU

Name

ED-TMPLT-SECU: ED TMPLT SECU

Description

Category: Security **Security:** Security Administrator

This command is used to modify a template that is used to define or modify a USERID.

Modifying a template changes the properties of USERIDs that are created or modified using the template AFTER the template was changed. All USERIDs that were created or modified before the template was changed continue to use the previous values.

Related Messages:

[ALW-MSG-SECU](#)

[CANC-CID-SECU](#)

[DLT-TMPLT-SECU](#)

[ED-RADIUS](#)

[ED-USER-SECU](#)

[ENT-USER-SECU](#)

[INH-USER-SECU](#)

[REPT EVT SECU](#)

[RTRV-COND-SECU](#)

[RTRV-STATUS](#)

[RTRV-TMPLT-SECU](#)

[ALW-USER-SECU](#)

[CANC-SES-SECU](#)

[DLT-USER-SECU](#)

[ED-SYS-SECU](#)

[ENT-TMPLT-SECU](#)

[INH-MSG-SECU](#)

[REPT ALM SECU](#)

[RTRV-ALM-SECU](#)

[RTRV-RADIUS](#)

[RTRV-SYS-SECU](#)

[RTRV-USER-SECU](#)

Input Format

ED-TMPLT- SECU:[TID]:<SecuTmpltAid>:[CTAG]:::[[PAGE=<PAGE> ,] [PCND=<PCND> ,] [TMOUT=<TMOUT> ,] [UAPMA=<UAPMA> ,] [UAPMT=<UAPMT> ,] [UAPSE=<UAPSE> ,] [UAPSY=<UAPSY> ,] [UAPTS=<UAPTS> ,] [NODEAID=<NODEAID> ,] [ENTADA=<ENTADA> ,] [DESC=<DESC>] ;
--

Input Parameters

SecuTmpltAid	This is the Access Identifier of the Security Template to be modified. <i>SecuTmpltAid</i> is the AID SecuTmpltAid .
PAGE	Password Aging Interval. The password aging interval is expressed in days. It is an integer less than or equal to 999, typically 45 to 60. At the end of the interval the user is notified that the existing password needs to be changed each time they log in. A value of zero indicates the user's password will never expire. <i>PAGE</i> is of type UserInterval .
PCND	Password ChaNge Days. This parameter specifies the number of days the user has between the time they are first notified that they must change their password and the time their USERID is disabled. <i>PCND</i> is of type UserInterval .
TMOUT	TiMe OUT. This parameter specifies the number of minutes of inactivity that must pass before their session is automatically logged out. A value of zero indicates that the user's sessions are never to be logged out due to inactivity. <i>TMOUT</i> is of type TimeOut .
UAPMA	User Access Privilege for Memory Administration. This parameter specifies the abilities of a user for executing memory administration commands. <i>UAPMA</i> is of type AcsPrv .
UAPMT	User Access Privilege for MainTenance. This parameter specifies the abilities of a user for executing maintenance commands. <i>UAPMT</i> is of type AcsPrv .
UAPSE	User Access Privilege for Security. This parameter specifies the abilities of a user for executing security commands. <i>UAPSE</i> is of type AcsPrv .
UAPSY	User Access Privilege for SYstem. This parameter specifies the abilities of a user for executing system commands. <i>UAPSY</i> is of type AcsPrv .
UAPTS	User Access Privilege for TeSting. This parameter specifies the abilities of a user for executing testing commands. <i>UAPTS</i> is of type AcsPrv .
NODEAID	Use NODE Access IDentifier. This parameter is set to Y (Yes) if AIDs in responses to this user are to contain node identifiers. This is the normal setting. N (No) needs to be specified for Operations Systems (such as NMA) that cannot tolerate node identifiers. For these systems, AIDs for the same node as was identified in the TID of the command will have the Nx- deleted from the AID in responses and autonomous reports. For input, the node identifier may be omitted if the node is the same as is identified in the TID. <i>NODEAID</i> is of type BoolYN .
ENTADA	This boolean flag determines whether or not the user may perform an ENTer on an object that is in ADA state. <i>ENTADA</i> is of type BoolYN .
DESC	A string description of this object, up to 11 characters in length. <i>DESC</i> is a String.

Input Example

```
ED-TMPLT-
SECU:SYS1:SRVORD:555:::PAGE=30,PCND=1,TMOUT=0,UAPMA=FULL,UAPMT=FULL,
UAPSE=MIN,UAPSY=MIN,UAPTS=FULL,NODEAID=N,ENTADA=Y,DESC=DESC;
```

Errors

This message generates all of the [Default Errors](#).

ED-TMPLT-VLANVBPORT

Name

ED-TMPLT-VLANVBPORT: Edit Template VLANVBPORT

Description

Category: IP **Security:** Memory Admin - by rate

Edit Template for VLAN VBPORT.

Input Format

```
ED-TMPLT-VLANVBPORT: [ TID ] :<VlanPortTmpltAid>:[ CTAG ]:::[ [ ARP=<ARP>, ]
[ DHCP=<DHCP>, ][ OPT82ACT=<OPT82ACT>, ][ IGMP=<IGMP>, ][ PPPOEAC=<PPPOEAC>, ]
[ PPPOESUB=<PPPOESUB>, ][ LSVID=<LSVID>, ][ PRIO=<PRIO>, ][ TAGGING=<TAGGING>, ]
[ ENCAP=<ENCAP>, ][ DOS=<DOS>, ][ STP=<STP>, ][ STPCOST=<STPCOST>, ]
[ STPPRIO=<STPPRIO>, ][ DIRM=<DIRN>, ][ STAGTYPE=<STAGTYPE>, ]
[ LEARNING=<LEARNING>, ][ PORTTYPE=<PORTTYPE>, ][ DESC=<DESC> ] ] ;
```

Input Parameters

VlanPortTmpltAid VLAN VBPORT Template Access Identifier *VlanPortTmpltAid* is the AID [VlanPortTmpltAid](#).

ARP (VLAN-VBPORT) Enable/Disable ARP *ARP* is of type [BoolYN](#).

DHCP (VLAN-VBPORT) Enable/Disable DHCP *DHCP* is of type [BoolYN](#).

OPT82ACT *OPT82ACT* is of type [Option82Action](#).

IGMP (VLAN-VBPORT) Igmp Type. *IGMP* is of type [IgmpType](#).

PPPOEAC (VLAN-VBPORT) Enable/Disable PPPoE Access Concentrator. *PPPOEAC* is of type [BoolYN](#).

PPPOESUB (VLAN-VBPORT) Enable/Disable PPPoE Subscriber *PPPOESUB* is of type [BoolYN](#).

LSVID *Not supported in release 6.0.* *LSVID* is of type [VlanTag](#).

PRIO (VLAN-VBPORT) VLAN Port Priority. PRIO values are in the range 0-7. *PRIO* is a Integer.

TAGGING (VLAN-VBPORT) Tagging Properties of the VLAN port *TAGGING* is of type [Tagging](#).

ENCAP (VBPORT) Encapsulation Type. *ENCAP* is of type [EncapType](#).

DOS	(VBPORT) Denial of Service enabled. <i>DOS</i> is of type BoolYN .
STP	(VBPORT) Spanning Tree Protocol Enabled. <i>STP</i> is of type BoolYN .
STPCOST	(VBPORT) Cost of the port participating in STP. This is used to determine the root port. <i>STPCOST</i> is a Integer.
STPPRIO	(VBPORT) STP Priority. STP Priority values are in the range 0-240 and in steps of 16. <i>STPPRIO</i> is a Integer.
DIRN	(VBPORT) Direction. <i>DIRN</i> is of type VbPortDirection .
STAGTYPE	<i>Not supported in release 6.0.</i> <i>STAGTYPE</i> is of type StagEthType .
LEARNING	<i>Not supported in release 6.0.</i> <i>LEARNING</i> is of type BoolYN .
PORTTYPE	<i>Not supported in release 6.0.</i> <i>PORTTYPE</i> is of type VbPortType .
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String.

Input Example

```
ED-TMPLT-
VLANVBPORT:1234:4:12345:::ARP=Y,DHCP=Y,OPT82ACT=NONE,IGMP=NONE,
PPPOEAC=N,PPPOESUB=N,LSVID=5,PRIO=1,TAGGING=DFLT,ENCAP=ETHERNETV2,DOS=Y,
STP=Y,STPCOST=2,STPPRIO=1,DIRN=BOTH,STAGTYPE=CTAG_8100,LEARNING=Y,
PORTTYPE=USER,DESC="TMPLT";
```

Errors

This message generates all of the [Default Errors](#).

ED-USER-SECU

Name

ED-USER-SECU: ED USER SECU

Description

Category: Security **Security:** Security Administrator

Edit a user's privileges, password or attributes. Only an Security Administrator should have privilege to do this. The AID block contains the user identifier.

Any TID may be used for this command as the security data associated with this command will be updated across the entire C7 network as a result of the execution of this command.

Defined in TR-835 and modified by Calix.

Related Messages:

ACT-USER	ALW-MSG-SECU
ALW-USER-SECU	CANC
CANC-CID-SECU	CANC-PPPOESESS
CANC-SES-SECU	CANC-USER
DLT-TMPLT-SECU	DLT-USER-ACL
DLT-USER-SECU	ED-PID
ED-RADIUS	ED-SYS-SECU
ED-TMPLT-SECU	ENT-TMPLT-SECU
ENT-USER-ACL	ENT-USER-SECU
INH-MSG-SECU	INH-USER-SECU
REPT ALM SECU	REPT EVT SECU
RTRV-ALM-SECU	RTRV-COND-SECU
RTRV-RADIUS	RTRV-STATUS
RTRV-SYS-SECU	RTRV-TMPLT-SECU
RTRV-USER-ACL	RTRV-USER-SECU

Input Format

```
ED-USER-
SECU:[TID]:<UID>:[CTAG]::[<NEWUID>],[<NEWPID>]:[[TMPLT=<TMPLT>,
][PAGE=<PAGE>],[PCND=<PCND>],[TMOUT=<TMOUT>],[UAPMA=<UAPMA>,
][UAPMT=<UAPMT>],[UAPSE=<UAPSE>],[UAPSY=<UAPSY>],[UAPTS=<UAPTS>,
][NODEAID=<NODEAID>],[ENTADA=<ENTADA>]];
```

Input Parameters

- UID** User Identifier. The user's identifier for session to be cancelled. It is a non-confidential identifier that uniquely determines a user. The user's identifier is any combination of alphanumeric characters 4 to 10 characters long and is case-sensitive. *UID* is the AID [UserAid](#).
- NEWUID** New User Identifier. It is a non-confidential identifier that uniquely determines a user. The user's identifier is any combination alphanumeric characters which is 4 to 10 characters and is case-sensitive. *NEWUID* is the AID [UserAid](#).
- NEWPID** New user's password. If specified, this parameter will change the user's password. The password must conform to the rules provisioned via ED-SYS-SECU. *NEWPID* is a String.
- TMPLT** Security Template. This specifies the security template to be used to provide default values for this command. The values in the template will be over-ridden by any parameter values specified in the command. *TMPLT* is the AID [SecuTmpltAid](#). The default value is "DEFLT".
- PAGE** Password Aging Interval. The password aging interval is expressed in days. It is an integer less than or equal to 999, typically 45 to 60. At the end of the interval the user is notified that the existing password needs to be changed each time they log in. A value of zero indicates the user's password will never expire. This value over-rides the value in the

template if a template was specified. *PAGE* is of type [UserInterval](#).

PCND	Password ChaNge Days. This parameter specifies the number of days the user has between the time they are first notified that they must change their password and the time their USERID is disabled. When a password is set by the ED-USER-SECU command, users are notified that they must change their password. They have PCND days to do this. This value over-rides the value in the template if a template was specified. <i>PCND</i> is of type UserInterval .
TMOUT	TiMe OUT. This parameter specifies the number of minutes of inactivity that must pass before their session is automatically logged out. A value of zero indicates that the user's sessions are never to be logged out due to inactivity. This value over-rides the value in the template if a template was specified. <i>TMOUT</i> is of type TimeOut .
UAPMA	User Access Privilege for Memory Administration. This parameter specifies the abilities of a user for executing memory administration commands. This value over-rides the value in the template if a template was specified. <i>UAPMA</i> is of type AcsPrv .
UAPMT	User Access Privilege for MainTenance. This parameter specifies the abilities of a user for executing maintenance commands. This value over-rides the value in the template if a template was specified. <i>UAPMT</i> is of type AcsPrv .
UAPSE	User Access Privilege for Security. This parameter specifies the abilities of a user for executing security commands. This value over-rides the value in the template if a template was specified. <i>UAPSE</i> is of type AcsPrv .
UAPSY	User Access Privilege for SYstem. This parameter specifies the abilities of a user for executing system commands. This value over-rides the value in the template if a template was specified. <i>UAPSY</i> is of type AcsPrv .
UAPTS	User Access Privilege for TeSting. This parameter specifies the abilities of a user for executing testing commands. This value over-rides the value in the template if a template was specified. <i>UAPTS</i> is of type AcsPrv .
NODEAID	Node Access Identifier. This parameter indicates if the AID used in the commands or responses should include the node identifier. If the NODEAID = Y, then the AID values will contain the Node Id (example N6-4-3). If the NODEAID = N, then the AID values will not contain the Node Id (example 4-3). When the user connecting to the C7 is a NMA user, the NODEAID should be set to N (no). <i>NODEAID</i> is of type BoolYN .
ENTADA	This boolean flag determines whether or not the user may perform an ENTer on an object that is in ADA state. <i>ENTADA</i> is of type BoolYN .

Input Example

```
ED-USER-
SECU:SYS3:FRANKLIN:234::FRANKLIN,*****:TMPLT=SRVORD,PAGE=45,
PCND=1,TMOUT=5,UAPMA=FULL,UAPMT=MIN,UAPSE=MIN,UAPSY=NONE,UAPTS=NONE,
NODEAID=N,ENTADA=Y;
```

Errors

This message generates all of the [Default Errors](#).

ED-VB

Name

ED-VB: Edit Virtual Bridge

Description

Category: IP **Security:** Memory Admin - by rate

Edit Virtual Bridge entity.

Related Messages:

[DLT-CVIDREG](#)

[DLT-MACHOST](#)

[DLT-VBPORT](#)

[DLT-VR](#)

[ED-CVIDREG](#)

[ED-MACHOST](#)

[ED-VLAN-VBPORT](#)

[ENT-CVIDREG](#)

[ENT-MACHOST](#)

[ENT-VBPORT](#)

[ENT-VR](#)

[REPT ALM VB](#)

[REPT EVT VB](#)

[RTRV-ALM-VB](#)

[RTRV-CVIDREG](#)

[RTRV-IGMP-JOIN](#)

[RTRV-VB](#)

[RTRV-VLAN-VBPORT](#)

[RTRV-VRPORT](#)

[DLT-IGMP-JOIN](#)

[DLT-VB](#)

[DLT-VLAN-VBPORT](#)

[DLT-VRPORT](#)

[ED-IGMP](#)

[ED-VBPORT](#)

[ED-VR](#)

[ENT-IGMP-JOIN](#)

[ENT-VB](#)

[ENT-VLAN-VBPORT](#)

[ENT-VRPORT](#)

[REPT ALM VR](#)

[REPT EVT VR](#)

[RTRV-ALM-VR](#)

[RTRV-IGMP](#)

[RTRV-MACHOST](#)

[RTRV-VBPORT](#)

[RTRV-VR](#)

Input Format

```
ED-VB:[TID]:<VbAid>:[CTAG]:::[ [BW=<BW>, ][ AUTOVLAN=<AUTOVLAN>, ]
[ VLANPORTTMPLT=<VLANPORTTMPLT>, ][ AGETMR=<AGETMR>, ][ PPPOAIWF=<PPPOAIWF>, ]
[ OPTION82=<OPTION82>, ][ DESC=<DESC> ] ];
```

Input Parameters

VbAid

Virtual Bridge Access Identifier. *VbAid* is the AID [VbAid](#).

BW	Bandwidth - Amount of guaranteed bandwidth allocated (in kbps), per slot, for slot-to-slot intra-bridge traffic <i>BW</i> is a Integer.
AUTOVLAN	Auto Vlan - VLAN AID to be used on the bridge. This will generate a VLAN object using the VLAN number provided here. <i>AUTOVLAN</i> is the AID PacketVlanAid .
VLANPORTTMPLT	<i>VLANPORTTMPLT</i> is the AID VirtualBridgeId .
AGETMR	<i>Not supported in release 6.0.</i> <i>AGETMR</i> is a Integer.
PPPOAIWF	<i>Not supported in release 6.0.</i> <i>PPPOAIWF</i> is of type BoolYN .
OPTION82	<i>Not supported in release 6.0.</i> The Option-82 type used by the L2 DHCP relay. <i>OPTION82</i> is of type Option82 .
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String.

Input Example

```
ED-VB:SYS2:N1-1-VB1:98:::BW=2000,AUTOVLAN=N1-1-
VLAN1,VLANPORTTMPLT=2,
AGETMR=500,PPPOAIWF=Y,OPTION82=NONE,DESC="DESCRIPTION" ;
```

Errors

This message generates all of the [Default Errors](#).

ED-VBPORT

Name

ED-VBPORT: Edit Virtual Bridge Port

Description

Category: IP **Security:** Memory Admin - by rate

Edit Virtual Bridge Port.

Related Messages:

[DLT-CVIDREG](#)
[DLT-MACHOST](#)
[DLT-VBPORT](#)
[DLT-VR](#)

[DLT-IGMP-JOIN](#)
[DLT-VB](#)
[DLT-VLAN-VBPORT](#)
[DLT-VRPORT](#)

ED-CVIDREG	ED-IGMP
ED-MACHOST	ED-VB
ED-VLAN-VBPORT	ED-VR
ENT-CVIDREG	ENT-IGMP-JOIN
ENT-MACHOST	ENT-VB
ENT-VBPORT	ENT-VLAN-VBPORT
ENT-VR	ENT-VRPORT
REPT ALM VB	REPT ALM VR
REPT EVT VB	REPT EVT VR
RTRV-ALM-VB	RTRV-ALM-VR
RTRV-CVIDREG	RTRV-IGMP
RTRV-IGMP-JOIN	RTRV-MACHOST
RTRV-VB	RTRV-VBPORT
RTRV-VLAN-VBPORT	RTRV-VR
RTRV-VRPORT	

Input Format

```
ED-
VBPORT:[TID]:<VbPortAid>:[CTAG]:::[ [ENCAP=<ENCAP>, ][DOS=<DOS>, ][STP=<STP>, ]
[STPCOST=<STPCOST>, ][STPPRIO=<STPPRIO>, ][PVID=<PVID>, ][DIRN=<DIRN>, ]
[STAGTYPE=<STAGTYPE>, ][LEARNING=<LEARNING>, ][PINNED=<PINNED>]];
```

Input Parameters

VbPortAid	Virtual Bridge Port Aid - This identifies either physical port or VC endpoint associated with the Virtual Bridge. <i>VbPortAid</i> is the AID VbPortAid .
ENCAP	Encapsulation Type. <i>ENCAP</i> is of type EncapType .
DOS	Denial of Service enabled. <i>DOS</i> is of type BoolYN .
STP	Spanning Tree Protocol Enabled. <i>STP</i> is of type BoolYN .
STPCOST	Cost of the port participating in STP. This is used to determine the root port. <i>STPCOST</i> is a Integer.
STPPRIO	STP Priority. STP Priority values are in the range 0-240 and in steps of 16. <i>STPPRIO</i> is a Integer.
PVID	Port Vlan ID. <i>Not supported in release 5.1</i> <i>PVID</i> is of type VlanTag .
DIRN	The direction of forwarded traffic. <i>DIRN</i> is of type VbPortDirection .
STAGTYPE	<i>Not supported in release 6.0</i> . <i>STAGTYPE</i> is of type StagEthType .
LEARNING	<i>Not supported in release 6.0</i> . <i>LEARNING</i> is of type BoolYN .
PINNED	For logical VBPORTs (used in ENT-CRS-VC), this parameter governs whether the VBPORT endpoint will be automatically deleted upon DLT-CRS-VC. If absent, PINNED is interpreted as FALSE. <i>PINNED</i> is of type BoolYN .

Input Example

```
ED-VBPORT:SYS:N1-1-VB2-1-
1:1234:::ENCAP=ETHERNETV2,DOS=Y,STP=Y,STPCOST=2,
STPPRIO=1,PVID=3,DIRN=BOTH,STAGTYPE=CTAG_9100,LEARNING=Y,PINNED=N;
```

Errors

This message generates all of the [Default Errors](#).

ED-VCG

Name

ED-VCG: Edit Voice Concentration Group

Description

Category: TDM Services **Security:** Memory Admin - by rate

This command is used to edit a Voice Concentration Group.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VRP
ENT-AVO	ENT-GOS-ONT
ENT-IG-VDS1	ENT-ONT
ENT-PROF-ONT	ENT-RFVID
ENT-VCG	ENT-VRP
INIT-ONT-UA	INIT-REG-ONT
REPT ALM AVO	REPT ALM ONT
REPT ALM RFVID	REPT ALM VCG
REPT ALM VRP	REPT EVT ONT
REPT RMV AVO	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT

RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
ED-VCG: [ TID ] :<IgAid> : [ CTAG ] :: : [ CAPALMTHR=<CAPALMTHR> ] ;
```

Input Parameters

IgAid The address of the VCG. *IgAid* is the AID [IgAid](#).

CAPALMTHR Capacity Alarm Threshold. The percentage of active call capacity of the VCG at which a capacity alarm should be raised. *CAPALMTHR* is of type [Percentage](#).

Input Example

```
ED-VCG:SYS:N1-2-IG3:457:::CAPALMTHR=85;
```

Errors

This message generates all of the [Default Errors](#).

ED-VID-CHAN

Name

ED-VID-CHAN: Edit Video Channel

Description

Category: Video**Security:** Memory Admin - by rate

Edit a Video Channel.

Related Messages:[DLT-DHCP-OUI](#)[DLT-IP-IF](#)[DLT-IP-ROUTE](#)[DLT-IPIF-PORT](#)[DLT-SUBIF-BINDING](#)[DLT-VID-CHAN](#)[DLT-VID-IRCLOC](#)[DLT-VID-SUB](#)[DLT-VID-SVC](#)[DLT-VODCLNT](#)[DLT-VODDSTLU](#)[DLT-VODFLOW](#)[DLT-VODSRCLU](#)[DLT-VODSVR](#)[ED-ARP](#)[ED-IPIF-PORT](#)[ED-VID-SUB](#)[ED-VID-SVC](#)[ED-VODDSTLU](#)[ENT-DHCP-OUI](#)[ENT-IP-IF](#)[ENT-IP-ROUTE](#)[ENT-IPIF-PORT](#)[ENT-SUBIF-BINDING](#)[ENT-VID-CHAN](#)[ENT-VID-IRCLOC](#)[ENT-VID-SUB](#)[ENT-VID-SVC](#)[ENT-VODDSTLU](#)[REPT EVT VODFLOW](#)[RTRV-ARP](#)[RTRV-DHCP-LEASE](#)[RTRV-DHCP-OUI](#)[RTRV-IP-IF](#)[RTRV-IP-ROUTE](#)[RTRV-IPIF-PORT](#)[RTRV-SUBIF-BINDING](#)[RTRV-VID-CHAN](#)[RTRV-VID-IRCLOC](#)[RTRV-VID-SUB](#)[RTRV-VID-SVC](#)[RTRV-VODCLNT](#)[RTRV-VODDSTLU](#)[RTRV-VODFLOW](#)[RTRV-VODSRCLU](#)[RTRV-VODSVR](#)**Input Format**

```
ED-VID-
CHAN:[TID]:<IP>:[CTAG]:::[ TRFPROF=<TRFPROF>, ] [ DESC=<DESC> ] ;
```

Input Parameters

IP IP Address. *IP* is the AID [IpAid](#).

TRFPROF Traffic Profile. This parameter identifies which Traffic Profile which will be used by the channel. The Traffic Profile specifies the bandwidth parameters. The Traffic Profile must have its APP set to an Application Id of either VIDCHNL or DATACAROUSEL to be used as a channel. Note if the TRFPROF parameter is changed, existing cross-connects created for this channel will not be updated with the new profile. *TRFPROF* is the AID [AtmTrfProfProvAid](#).

DESC Channel description. The description can be up to 40 characters in length. *DESC* is a String.

Input Example

```
ED-VID-CHAN::192.168.1.0:32:::TRFPROF=21,DESC="CHANNEL";
```

Errors

This message generates all of the [Default Errors](#).

ED-VID-SUB

Name

ED-VID-SUB: Edit Video Subscriber

Description

Category: Video **Security:** Memory Admin - by rate

This command is used to edit the video subscriber record and creates an internal BWCLINK. This command can be send to the IRC (for now) and eventually the GE2P.

Related Messages:

DLT-DHCP-OUI	DLT-IP-IF
DLT-IP-ROUTE	DLT-IPIF-PORT
DLT-SUBIF-BINDING	DLT-VID-CHAN
DLT-VID-IRCLOC	DLT-VID-SUB
DLT-VID-SVC	DLT-VODCLNT
DLT-VODDSTLU	DLT-VODFLOW
DLT-VODSRCLU	DLT-VODSVR
ED-ARP	ED-IPIF-PORT
ED-VID-CHAN	ED-VID-SVC
ED-VODDSTLU	ENT-DHCP-OUI
ENT-IP-IF	ENT-IP-ROUTE
ENT-IPIF-PORT	ENT-SUBIF-BINDING
ENT-VID-CHAN	ENT-VID-IRCLOC
ENT-VID-SUB	ENT-VID-SVC
ENT-VODDSTLU	REPT EVT VODFLOW
RTRV-ARP	RTRV-DHCP-LEASE
RTRV-DHCP-OUI	RTRV-IP-IF
RTRV-IP-ROUTE	RTRV-IPIF-PORT

[RTRV-SUBIF-BINDING](#)
[RTRV-VID-IRCLOC](#)
[RTRV-VID-SVC](#)
[RTRV-VODDSTLU](#)
[RTRV-VODSRCLU](#)

[RTRV-VID-CHAN](#)
[RTRV-VID-SUB](#)
[RTRV-VODCLNT](#)
[RTRV-VODFLOW](#)
[RTRV-VODSVR](#)

Input Format

```
ED-VID-
SUB:[TID]:<VidSubAid>:[CTAG]:::RTRAID=<RTRAID>, [[CHANCNT=<CHANCNT>, ]
[VIDBW=<VIDBW>, ][VIDLOANBW=<VIDLOANBW>]];
```

Input Parameters

VidSubAid	Video Subscriber Access Identifier - The port or channel to which subscribers are connected. Usually an ADSL Channel or ONT (or vdsl in the future) port. <i>VidSubAid</i> is the AID VidSubAid .
RTRAID	RTRAID - Location of IRC to handle the command <i>RTRAID</i> is the AID SlotLuAid .
CHANCNT	Maximum Channel Count - Number of unique channels flowing to the port. Zero CHANCNT means that the VIDBW and VIDLOANBW values are still used but the subscriber's port will use the global IGMP channel limit when validating channel changes. Setting the CHANCNT to zero is, in effect, turning off the count for that specific port. <i>CHANCNT</i> is a Integer.
VIDBW	Video Bandwidth - In Kilobits per second. This value is the maximum Downstream (TX) BW reserved for video on the port. This can be any value but will be rejected if it exceeds the port's trained rate or provisioned rate. <i>VIDBW</i> is a Integer.
VIDLOANBW	Maximum Video Loan Bandwidth - in kbps. Maximum amount of bandwidth to lend back to UBR applications. This value cannot exceed the Max Video BW value. <i>VIDLOANBW</i> is a Integer.

Input Example

```
ED-VID-SUB:SYS:N1-1-1-1:1234:::RTRAID=N1-1-
10,CHANCNT=5,VIDBW=10000,
VIDLOANBW=2000;
```

Errors

This message generates all of the [Default Errors](#).

ED-VID-SVC

Name

ED-VID-SVC: Edit Video Service

Description

Category: Video **Security:** Memory Admin - by rate

This command modifies the video service.

Related Messages:

DLT-DHCP-OUI	DLT-IP-IF
DLT-IP-ROUTE	DLT-IPIF-PORT
DLT-SUBIF-BINDING	DLT-VID-CHAN
DLT-VID-IRCLOC	DLT-VID-SUB
DLT-VID-SVC	DLT-VODCLNT
DLT-VODDSTLU	DLT-VODFLOW
DLT-VODSRCLU	DLT-VODSVR
ED-ARP	ED-IPIF-PORT
ED-VID-CHAN	ED-VID-SUB
ED-VODDSTLU	ENT-DHCP-OUI
ENT-IP-IF	ENT-IP-ROUTE
ENT-IPIF-PORT	ENT-SUBIF-BINDING
ENT-VID-CHAN	ENT-VID-IRCLOC
ENT-VID-SUB	ENT-VID-SVC
ENT-VODDSTLU	REPT EVT VODFLOW
RTRV-ARP	RTRV-DHCP-LEASE
RTRV-DHCP-OUI	RTRV-IP-IF
RTRV-IP-ROUTE	RTRV-IPIF-PORT
RTRV-SUBIF-BINDING	RTRV-VID-CHAN
RTRV-VID-IRCLOC	RTRV-VID-SUB
RTRV-VID-SVC	RTRV-VODCLNT
RTRV-VODDSTLU	RTRV-VODFLOW
RTRV-VODSRCLU	RTRV-VODSVR

Input Format

```
ED-VID-SVC:[TID]:<VidSvcAid>:[CTAG]:::[ [ VIDVLANTAG=<VIDVLANTAG>, ]
[ DHCPLOCK=<DHCPLOCK> ] ] ;
```

Input Parameters

VidSvcAid Video Service Access Identifier. The AID of the Video Service that contains the channel. *VidSvcAid* is the AID [VidSvcAid](#).

VIDVLANTAG *VIDVLANTAG* is of type [VlanTag](#).

DHCLOCK Enable or disable device mobility. When set to "Y", restrict mobility by allowing a DHCP host to obtain an IP address only once for a specific VLAN port. *DHCLOCK* is of type [BoolYN](#).

Input Example

```
ED-VID-SVC:SYS2:1:34:::VIDVLANTAG=2,DHCLOCK=Y;
```

Errors

This message generates all of the [Default Errors](#).

ED-VLAN

Name

ED-VLAN: Edit VLAN

Description

Category: IP **Security:** Memory Admin - by rate

This command modifies a Virtual LAN on an XLAN or Virtual Bridge.

Related Messages:

[DLT-AGG](#)
[DLT-AGG-PORT](#)
[DLT-ETH-ACL](#)
[DLT-LSWITCH](#)
[DLT-PROF-ETH](#)
[DLT-VLAN-PORT](#)
[ED-ETH](#)
[ED-VLAN-PORT](#)
[ENT-AGG](#)
[ENT-AGG-PORT](#)
[ENT-ETH-ACL](#)
[ENT-LSWITCH](#)
[ENT-PROF-ETH](#)
[ENT-VLAN-PORT](#)
[INIT-LSWITCH](#)

[DLT-AGG-ACL](#)
[DLT-ETH](#)
[DLT-GOS-ETH](#)
[DLT-LSWITCH-PORT](#)
[DLT-VLAN](#)
[DLT-VLAN-VBPORT](#)
[ED-GOS-ETH](#)
[ED-VLAN-VBPORT](#)
[ENT-AGG-ACL](#)
[ENT-ETH](#)
[ENT-GOS-ETH](#)
[ENT-LSWITCH-PORT](#)
[ENT-VLAN](#)
[ENT-VLAN-VBPORT](#)
[INIT-STAT-ETH](#)

[REPT ALM ETH](#)
[REPT RMV ETH](#)
[RMV-ETH](#)
[RTRV-AGG](#)
[RTRV-AGG-PORT](#)
[RTRV-COND-ETH](#)
[RTRV-ETH-ACL](#)
[RTRV-LSWITCH](#)
[RTRV-PM-ETH](#)
[RTRV-STAT-ETH](#)
[RTRV-VLAN-PORT](#)

[REPT EVT ETH](#)
[REPT RST ETH](#)
[RST-ETH](#)
[RTRV-AGG-ACL](#)
[RTRV-ALM-ETH](#)
[RTRV-ETH](#)
[RTRV-GOS-ETH](#)
[RTRV-LSWITCH-PORT](#)
[RTRV-PROF-ETH](#)
[RTRV-VLAN](#)
[RTRV-VLAN-VBPORT](#)

Input Format

```
ED-
VLAN:[TID]:<VlanAid>:[CTAG]:::[OPTION82=<OPTION82>,][DESC=<DESC>]];
```

Input Parameters

VlanAid *VlanAid* is the AID [VlanId](#).

OPTION82 *Not supported in release 6.0.* The Option-82 type used by the L2 DHCP relay. *OPTION82* is of type [Option82](#).

DESC User Description, up to 31 characters. *DESC* is a String.

Input Example

```
ED-VLAN::N3-1-VB2-VLAN4:544:::OPTION82=NONE,DESC="DESCRIPTION";
```

Errors

This message generates all of the [Default Errors](#).

ED-VLAN-PORT

Name

ED-VLAN-PORT: Edit VLAN PORT

Description

Category: IP **Security:** Memory Admin - by rate

This command edits a port to a Virtual LAN.

Related Messages:

[DLT-AGG](#)

[DLT-AGG-PORT](#)

[DLT-ETH-ACL](#)

[DLT-LSWITCH](#)

[DLT-PROF-ETH](#)

[DLT-VLAN-PORT](#)

[ED-ETH](#)

[ED-VLAN](#)

[ENT-AGG](#)

[ENT-AGG-PORT](#)

[ENT-ETH-ACL](#)

[ENT-LSWITCH](#)

[ENT-PROF-ETH](#)

[ENT-VLAN-PORT](#)

[INIT-LSWITCH](#)

[REPT ALM ETH](#)

[REPT RMV ETH](#)

[RMV-ETH](#)

[RTRV-AGG](#)

[RTRV-AGG-PORT](#)

[RTRV-COND-ETH](#)

[RTRV-ETH-ACL](#)

[RTRV-LSWITCH](#)

[RTRV-PM-ETH](#)

[RTRV-STAT-ETH](#)

[RTRV-VLAN-PORT](#)

[DLT-AGG-ACL](#)

[DLT-ETH](#)

[DLT-GOS-ETH](#)

[DLT-LSWITCH-PORT](#)

[DLT-VLAN](#)

[DLT-VLAN-VBPORT](#)

[ED-GOS-ETH](#)

[ED-VLAN-VBPORT](#)

[ENT-AGG-ACL](#)

[ENT-ETH](#)

[ENT-GOS-ETH](#)

[ENT-LSWITCH-PORT](#)

[ENT-VLAN](#)

[ENT-VLAN-VBPORT](#)

[INIT-STAT-ETH](#)

[REPT EVT ETH](#)

[REPT RST ETH](#)

[RST-ETH](#)

[RTRV-AGG-ACL](#)

[RTRV-ALM-ETH](#)

[RTRV-ETH](#)

[RTRV-GOS-ETH](#)

[RTRV-LSWITCH-PORT](#)

[RTRV-PROF-ETH](#)

[RTRV-VLAN](#)

[RTRV-VLAN-VBPORT](#)

Input Format

```
ED-VLAN-PORT:[TID]:<VLanPortAid>:[CTAG]:::[TRFPREF=<TRFPREF>];
```

Input Parameters

VLanPortAid VLAN port Access Identifier. *VLanPortAid* is the AID [VLanPortAid](#).

TRFPREF ethernet TRaFfic PROFile *TRFPREF* is the AID [EthProfAid](#).

Input Example

```
ED-VLAN-PORT::N1-1-1-XLAN10-VLAN50:543:::TRFPREF=9;
```

Errors

This message generates all of the [Default Errors](#).

ED-VLAN-VBPORT

Name

ED-VLAN-VBPORT: Edit VLAN Virtual Bridge Port

Description

Category: IP **Security:** Memory Admin - by rate

Edit a Packet port associated with a VLAN.

Related Messages:

[DLT-AGG](#)

[DLT-AGG-ACL](#)

[DLT-AGG-PORT](#)

[DLT-CVIDREG](#)

[DLT-ETH](#)

[DLT-ETH-ACL](#)

[DLT-GOS-ETH](#)

[DLT-IGMP-JOIN](#)

[DLT-LSWITCH](#)

[DLT-LSWITCH-PORT](#)

[DLT-MACHOST](#)

[DLT-PROF-ETH](#)

[DLT-VB](#)

[DLT-VBPORT](#)

[DLT-VLAN](#)

[DLT-VLAN-PORT](#)

[DLT-VLAN-VBPORT](#)

[DLT-VR](#)

[DLT-VRPORT](#)

[ED-CVIDREG](#)

[ED-ETH](#)

[ED-GOS-ETH](#)

[ED-IGMP](#)

[ED-MACHOST](#)

[ED-VB](#)

[ED-VBPORT](#)

[ED-VLAN](#)

[ED-VLAN-PORT](#)

[ED-VR](#)

[ENT-AGG](#)

[ENT-AGG-ACL](#)

[ENT-AGG-PORT](#)

[ENT-CVIDREG](#)

[ENT-ETH](#)

[ENT-ETH-ACL](#)

[ENT-GOS-ETH](#)

[ENT-IGMP-JOIN](#)

[ENT-LSWITCH](#)

[ENT-LSWITCH-PORT](#)

[ENT-MACHOST](#)

[ENT-PROF-ETH](#)

[ENT-VB](#)

[ENT-VBPORT](#)

[ENT-VLAN](#)

ENT-VLAN-PORT	ENT-VLAN-VBPORT
ENT-VR	ENT-VRPORT
INIT-LSWITCH	INIT-STAT-ETH
REPT ALM ETH	REPT ALM VB
REPT ALM VR	REPT EVT ETH
REPT EVT VB	REPT EVT VR
REPT RMV ETH	REPT RST ETH
RMV-ETH	RST-ETH
RTRV-AGG	RTRV-AGG-ACL
RTRV-AGG-PORT	RTRV-ALM-ETH
RTRV-ALM-VB	RTRV-ALM-VR
RTRV-COND-ETH	RTRV-CVIDREG
RTRV-ETH	RTRV-ETH-ACL
RTRV-GOS-ETH	RTRV-IGMP
RTRV-IGMP-JOIN	RTRV-LSWITCH
RTRV-LSWITCH-PORT	RTRV-MACHOST
RTRV-PM-ETH	RTRV-PROF-ETH
RTRV-STAT-ETH	RTRV-VB
RTRV-VBPORT	RTRV-VLAN
RTRV-VLAN-PORT	RTRV-VLAN-VBPORT
RTRV-VR	RTRV-VRPORT

Input Format

```
ED-VLAN-VBPORT: [ TID ] :<VbPortAid>:[ CTAG ]:::VLAN=<VLAN>, [ [ ARP=<ARP>, ]
[ DHCP=<DHCP>, ] [ OPT82ACT=<OPT82ACT>, ] [ IGMP=<IGMP>, ] [ PPPOEAC=<PPPOEAC>, ]
[ PPPOESUB=<PPPOESUB>, ] [ PRIO=<PRIO>, ] [ TAGGING=<TAGGING> ] ];
```

Input Parameters

VbPortAid *VbPortAid* is the AID [VbPortAid](#).

VLAN VLAN Address - Address of the VLAN associated with the Port. *VLAN* is the AID [PacketVlanAid](#).

ARP Enable/Disable ARP *ARP* is of type [BoolYN](#).

DHCP Enable/Disable DHCP *DHCP* is of type [BoolYN](#).

OPT82ACT *Not supported in release 6.0.* The action to take if a DHCP packet is received on a Client facing interface with Option82 sub-option 1 /2 content. *OPT82ACT* is of type [Option82Action](#).

IGMP IGMP TYPE: a) SINK b) NONE *IGMP* is of type [IgmpType](#).

PPPOEAC Enable/Disable PPPOE Access Concentrator *PPPOEAC* is of type [BoolYN](#).

PPPOESUB Enable/Disable PPPoE Subscriber *PPPOESUB* is of type [BoolYN](#).

PRIO VLAN Port Priority. PRIO values are in the range 0-7. *PRIO* is a Integer.

TAGGING Tagging Properties of the VLAN port *TAGGING* is of type [Tagging](#).

Input Example

```
ED-VLAN-VBPORT::N1-1-VB1-4-1:543:::VLAN=N1-1-VB1-
VLAN1,ARP=Y,DHCP=Y,
OPT82ACT=NONE,IGMP=Y,PPPOEAC=N,PPPOESUB=N,PRIO=2,TAGGING=DFLT;
```

Errors

This message generates all of the [Default Errors](#).

ED-VODDSTLU

Name

ED-VODDSTLU: Edit VOD Destination Line Unit

Description

Category: Video **Security:** Memory Admin - by rate

A VOD Destination LU is the slot on which VOD flows targeting subscribers on this shelf have their flows terminate. If multiple VOD Destination LUs are present in a shelf, the IRC will use the first LU with an available VOD Internal Flow VC with enough bandwidth. If the VOD Destination LU is deleted, all flows that terminate on it will be torn down. The TRFPROF and FLOWLMT parameters act to create hidden "VOD Internal Flow VCs". If there is insufficient bandwidth to support the requested number of flows, then the operation will fail and no change will occur to the system.

Defined by Calix.

Related Messages:

[DLT-DHCP-OUI](#)

[DLT-IP-ROUTE](#)

[DLT-SUBIF-BINDING](#)

[DLT-VID-IRCLOC](#)

[DLT-VID-SVC](#)

[DLT-VODDSTLU](#)

[DLT-VODSRCLU](#)

[ED-ARP](#)

[ED-VID-CHAN](#)

[ED-VID-SVC](#)

[DLT-IP-IF](#)

[DLT-IPIF-PORT](#)

[DLT-VID-CHAN](#)

[DLT-VID-SUB](#)

[DLT-VODCLNT](#)

[DLT-VODFLOW](#)

[DLT-VODSVR](#)

[ED-IPIF-PORT](#)

[ED-VID-SUB](#)

[ENT-DHCP-OUI](#)

[ENT-IP-IF](#)
[ENT-IPIF-PORT](#)
[ENT-VID-CHAN](#)
[ENT-VID-SUB](#)
[ENT-VODDSTLU](#)
[RTRV-ARP](#)
[RTRV-DHCP-OUI](#)
[RTRV-IP-ROUTE](#)
[RTRV-SUBIF-BINDING](#)
[RTRV-VID-IRCLOC](#)
[RTRV-VID-SVC](#)
[RTRV-VODDSTLU](#)
[RTRV-VODSRCLU](#)

[ENT-IP-ROUTE](#)
[ENT-SUBIF-BINDING](#)
[ENT-VID-IRCLOC](#)
[ENT-VID-SVC](#)
[REPT EVT VODFLOW](#)
[RTRV-DHCP-LEASE](#)
[RTRV-IP-IF](#)
[RTRV-IPIF-PORT](#)
[RTRV-VID-CHAN](#)
[RTRV-VID-SUB](#)
[RTRV-VODCLNT](#)
[RTRV-VODFLOW](#)
[RTRV-VODSVR](#)

Input Format

ED-
 VODDSTLU: [TID]:<EqptAid>:[CTAG]:::IRCAID=<IRCAID>, [FLOWLMT=<FLOWLMT>] ;

Input Parameters

- EqptAid** VOD Destination LU Access Identifier. The address of the VOD Destination Line Unit.
EqptAid is the AID [EquipmentId3](#).
- IRCAID** IRC AID. The address of the IRC. *IRCAID* is the AID [SlotLuAid](#).
- FLOWLMT** Flow Limit. The upper bound on the number of VOD flows that can egress through this OLU. For each possible flow, a hidden "VOD Internal Flow VC" is created with source and destination on PP1 of this card. There must be sufficient bandwidth in the shelf to support the specified number of flows. *FLOWLMT* is a Integer.

Input Example

ED-VODDSTLU:SYS1:N1-2-3:123:::IRCAID=N1-2-3, FLOWLMT=25 ;

Errors

This message generates all of the [Default Errors](#).

ED-VR

Name

ED-VR: Edit Virtual Router

Description

Category: IP **Security:** Memory Admin - by rate

Edit a Virtual Router.

Related Messages:

[DLT-CVIDREG](#)

[DLT-MACHOST](#)

[DLT-VBPORT](#)

[DLT-VR](#)

[ED-CVIDREG](#)

[ED-MACHOST](#)

[ED-VBPORT](#)

[ENT-CVIDREG](#)

[ENT-MACHOST](#)

[ENT-VBPORT](#)

[ENT-VR](#)

[REPT ALM VB](#)

[REPT EVT VB](#)

[RTRV-ALM-VB](#)

[RTRV-CVIDREG](#)

[RTRV-IGMP-JOIN](#)

[RTRV-VB](#)

[RTRV-VLAN-VBPORT](#)

[RTRV-VRPORT](#)

[DLT-IGMP-JOIN](#)

[DLT-VB](#)

[DLT-VLAN-VBPORT](#)

[DLT-VRPORT](#)

[ED-IGMP](#)

[ED-VB](#)

[ED-VLAN-VBPORT](#)

[ENT-IGMP-JOIN](#)

[ENT-VB](#)

[ENT-VLAN-VBPORT](#)

[ENT-VRPORT](#)

[REPT ALM VR](#)

[REPT EVT VR](#)

[RTRV-ALM-VR](#)

[RTRV-IGMP](#)

[RTRV-MACHOST](#)

[RTRV-VBPORT](#)

[RTRV-VR](#)

Input Format

```
ED-VR : [TID] : <VrAid> : [CTAG] :: : [DHCPLOCK=<DHCPLOCK>] ;
```

Input Parameters

VrAid *VrAid* is the AID [VrAid](#).

DHCPLOCK Enable or disable device mobility. When set to "Y", restrict mobility by allowing a DHCP host to obtain an IP address only once for a specific VR. *DHCPLOCK* is of type [BoolYN](#). The default value is "Y".

Input Example

```
ED-VR : SYS1 : N1 - 1 - VR1 : 322 :: DHCPLOCK=Y ;
```

Errors

This message generates all of the [Default Errors](#).

ED-VRP

Name

ED-VRP: Edit Video Return Path

Description

Category: PON **Security:** Memory Admin - by rate

Edit Video Return Path. The Video Return Path is used to return command information from Set Top Boxes connected to the subscriber coax. Not all RF-Video capable ONTs support the optional Video Return Path capability.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ENT-AVO	ENT-GOS-ONT
ENT-IG-VDS1	ENT-ONT
ENT-PROF-ONT	ENT-RFVID
ENT-VCG	ENT-VRP
INIT-ONT-UA	INIT-REG-ONT
REPT ALM AVO	REPT ALM ONT
REPT ALM RFVID	REPT ALM VCG
REPT ALM VRP	REPT EVT ONT
REPT RMV AVO	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT

RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
ED-
VRP:[TID]:<VrpAid>:[CTAG]:::[ [ MODE=<MODE>, ] [ RATE=<RATE>, ] [ FREQ=<FREQ>, ]
[ DQPSK=<DQPSK>, ] [ RAND=<RAND>, ] [ DESC=<DESC> ] ]:[ <PST> , [ <SST> ] ;
```

Input Parameters

VrpAid Video Return Path Access Identifier. *VrpAid* is the AID [VrpAid](#).

MODE *MODE* is of type [RFReturnMode](#).

RATE When MODE = SCTE 55-2, this parameter controls the upstream rate for the RF-Return signal in kbit/sec. *RATE* is of type [VrpDataRate](#).

FREQ When MODE = SCTE55-1, frequency is 8096 to 40160 in step sizes of 192 kHz. When MODE = SCTE55-2 and RATE =256 kbps, frequency is 8000 to 26500 in steps of 256 kHz. When MODE = SCTE55-2 and RATE =1544 kbps, frequency is 8000 to 26500 in steps of 1000 kHz. When MODE = SCTE55-2 and RATE =3088 kbps, frequency is 8000 to 26500 in steps of 2000 kHz *FREQ* is a Integer.

DQPSK When MODE equals SCTE55-1 set the DQPSK mode to Default or Alternate Operation *DQPSK* is of type [DQPSKMode](#).

RAND SCTE55-1 Randomizer Pre-Load - When MODE equals SCTE55-1, set the eight bits of the Randomizer pre-Load. Value range is from 00 to FF in hex. Default value is FF. *RAND* is a String. *RAND* is a String.

DESC DESCription. A user-settable description field, up to 31 characters. *DESC* is a String.

PST Primary Service State of the Video Return Path *PST* is of type [PrimaryStateChg](#).

SST Secondary Service State of the Video Return Path. *SST* is of type [SecondaryStateChgSB](#).

Input Example

```
ED-VRP:SYS:N2-3-12-1-22-VRP:1234:::MODE=SCTE55-
1,RATE=1544,FREQ=26500,
DQPSK=DFLT,RAND=0XFF,DESC="DESCRIPTION":OOS,SB;
```

Errors

This message generates all of the [Default Errors](#).

ED-VSP

Name

ED-VSP: Edit Voice Signal Processor

Description

Category: TDM Services **Security:** Memory Admin - by rate

This command edits parameters associated with a VSP port.

Related Messages:

[DLT-H248](#)

[DLT-IG-VSP](#)

[DLT-VSP](#)

[ED-H248](#)

[ENT-H248](#)

[ENT-IG-VSP](#)

[ENT-VSP](#)

[REPT ALM H248](#)

[RTRV-ALM-H248](#)

[RTRV-COND-H248](#)

[RTRV-H248](#)

[RTRV-IG-VSP](#)

[RTRV-VSP](#)

Input Format

```
ED-
VSP:[TID]:<VspAid>:[CTAG]:::[ [ IP=<IP> , ] [ UDPSTART=<UDPSTART> ] ]:[ <PST> ] ;
```

Input Parameters

VspAid The AID of the VSP port being modified. *VspAid* is the AID [VspPortAid](#).

IP IP Address for Bearer traffic handled by VSP. *IP* is the AID [IpAid](#).

UDPSTART Starting UDP port number for bearer traffic transport handled by VSP. The valid range is 3000-65534. *UDPSTART* is a Integer.

PST *PST* is of type [PrimaryStateChg](#).

Input Example

```
ED-VSP:SYS:N3-2-7-1:1235:::IP=209.204.165.202,UDPSTART=70512:IS;
```

Errors

This message generates all of the [Default Errors](#).

ED-XLAN

Name

ED-XLAN: Edit XLAN

Description

Category: Ethernet **Security:** Memory Admin - by rate

This command is used to modify an Extended LAN. There can be up to 100 XLANS in a C7 network, which may or may not overlap on some shelves.

An XLAN can be one of the following topologies:

- Ethernet Packet Ring
- Linear Chain
- Point-to-Point

Input Format

```
ED-
XLAN:[TID]:<XLanAid>:[CTAG]:::[[XLANNNAME=<XLANNNAME>,[XLANBW=<XLANBW>,[TOPO=<TOPO>]];
```

Input Parameters

XLanAid EXtended LAN Access Identifier. *XLanAid* is the AID [XLanAid](#).

XLANNNAME EXtended LAN NAME. *XLANNNAME* is a String.

XLANBW EXtended LAN BandWidth. *XLANBW* is of type [XlanBw](#).

TOPO Indicates the topology of the Extended LAN. Note the system makes no effort to ensure the specified topology matches the actual XLAN configuration; it is provided for user convenience only. *TOPO* is of type [EthTopo](#).

Input Example

```
ED-XLAN:SYS1:XLAN10:345:::XLANNNAME=NOVATO,XLANBW=4,TOPO=LINEAR;
```

Errors

This message generates all of the [Default Errors](#).

ENT-<OCN>

Name

ENT-<[OCN](#)>: Enter (OC12, OC3, OC48)

Description

Category: OCn Facility **Security:** Memory Admin - by rate

This command creates an OCn port within the system. The parameter provided within the command define the type of services which will be provided by the OCn port.

Defined in GR-199.

Related Messages:

[DLT-<OCN>](#)

[DLT-GOS-<OCN>](#)

[ED-FFP-<OCN>](#)

[ENT-FFP-<OCN>](#)

[INIT-REG-<OCN>](#)

[OPR-PROTNSW-<OCN>](#)

[REPT EVT <OCN>](#)

[REPT RST <OCN>](#)

[RLS-PROTNSW-<OCN>](#)

[RST-<OCN>](#)

[RTRV-ALM-<OCN>](#)

[RTRV-FFP-<OCN>](#)

[RTRV-PM-<OCN>](#)

[DLT-FFP-<OCN>](#)

[ED-<OCN>](#)

[ED-GOS-<OCN>](#)

[ENT-GOS-<OCN>](#)

[OPR-LPBK-<OCN>](#)

[REPT ALM <OCN>](#)

[REPT RMV <OCN>](#)

[RLS-LPBK-<OCN>](#)

[RMV-<OCN>](#)

[RTRV-<OCN>](#)

[RTRV-COND-<OCN>](#)

[RTRV-GOS-<OCN>](#)

Input Format

```
ENT-<OCN>:[TID]:<OcNAid>:[CTAG]:::  
[[TXS1=<TXS1>,][RXS1=<RXS1>,][LSREN=<LSREN>,][EXT=<EXT>,][FEPM=<FEPM>,]  
[ALMPROF=<ALMPROF>,][SDBER=<SDBER>,][SFBER=<SFBER>,][GOS=<GOS>,]  
[PDOM=<PDOM>,][DESC=<DESC>]]:[<PST>],[<SST>];
```

Input Parameters

OcNAid	OCn Port Access Identifier. The address of the OCn port being created. <i>OcNAid</i> is the AID FourPortLuAndRapAid .
TXS1	Transmit S1. This parameter is set to Y if the sync status nibble indicates the source of timing. It is set to N if the nibble is set to Do not Use for Synchronization (DUS). <i>TXS1</i> is of type BoolYN . The default value is "Y".
RXS1	Receive S1. This parameter is set to Y if the received S1 sync status is to be acted upon. It is set to N if it is to be ignored. <i>RXS1</i> is of type BoolYN . The default value is "Y".
LSREN	LaSeR ENable. This parameter is set to Y to enable transmitting a signal over this facility. If the facility is to be used for receiving only, the value should be set to N. <i>LSREN</i> is of type BoolYN . The default value is "Y".
EXT	External Interface. This indicates if the OCn port is an internal or external path in the network. The value should be set to "Y" when the port is an external interface. It should be set to "N" when the port is connected to other shelves within a network of C7s. Note that EXT cannot be set to "N" on Sonet-only cards. Also note that this parameter must be changed independently of others, ie. a separate ED-OCn command is required. <i>EXT</i> is of type BoolYN . The default value is "N".
FEPM	Far End Performance Monitoring. When this parameter is set to "N", the Far End Performance Monitoring data is not collected. When retrieving Far End PM, the Monitored Values (MONVAL) field will contain '0' and the Validity (VLDTY) field will contain 'INVLD'. When this parameter is set to "Y", data collection for Far End Performance Monitoring is enabled. The default value is "N". <i>FEPM</i> is of type BoolYN . The default value is "N".
ALMPROF	Alarm Profile. The set of alarm Notification codes to be associated with this entity. <i>ALMPROF</i> is the AID AlmProfileAid . The default value is "AISNR".
SDBER	Signal Degraded Bit Error Rate. The threshold value above which the Line's bit error rate constitutes a Degraded Signal. <i>SDBER</i> is of type BitErrorRateSD . The default value is "5".
SFBER	Signal Failed Bit Error Rate. The threshold value above which the Line's bit error rate constitutes a Failed Signal. <i>SFBER</i> is of type BitErrorRateSF . The default value is "3".
GOS	Grade of service. This identifies the OCn grade of service for performance monitoring (PM) which will be applied to the OCn port. <i>GOS</i> is the AID GosAid . The default value is "DEFLT".
PDOM	Protection DOMain. This is an integer that is used to associate a transport facility into a protection domain that is used for A to Z connection provisioning. The PDOM for each domain must be a unique non-zero integer. The value of 0 is reserved to indicate that the facility is not to be used for A to Z connections. <i>PDOM</i> is of type Pdom . The default value is "0".
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String.
PST	Primary Service State. This is the service state which the user wants the entity to transition into. <i>PST</i> is of type PrimaryStateChg . The default value is "IS".
SST	Secondary Service State. The only secondary service state which is provisionable is SB. It only applies when the PST is OOS. <i>SST</i> is of type SecondaryStateChgSB .

Input Example

```
ENT-OC12:SYS1:N3-3-3-
3:435:::TXS1=N,RXS1=N,LSREN=Y,EXT=N,FEPM=Y,ALMPROF=AISCR,
      SDBER=6,SFBER=4,GOS=3,PDOM=0,DESC="DESCRIPTION":OOS,SB;
```

Errors

This message generates all of the [Default Errors](#).

ENT-<STSN>

Name

ENT-<[STSN](#)>: Enter (STS1, STS12C, STS3C, STS48C)

Description

Category: STSn Path **Security:** Memory Admin - by rate

This command creates an STS path within the system. The parameter provided within the command define the type of services which will be provided by the STS path.

Defined in GR-199.

Related Messages:

[DLT-<STSN>](#)
[DLT-GOS-<STSN>](#)
[ED-CRS-<STSN>](#)
[ENT-CRS-<STSN>](#)
[INIT-REG-<STSN>](#)
[REPT ALM <STSN>](#)
[REPT RMV <STSN>](#)
[RLS-PROTNST-<STSN>](#)
[RST-<STSN>](#)
[RTRV-ALM-<STSN>](#)
[RTRV-CRS-<STSN>](#)
[RTRV-PM-<STSN>](#)

[DLT-CRS-<STSN>](#)
[ED-<STSN>](#)
[ED-GOS-<STSN>](#)
[ENT-GOS-<STSN>](#)
[OPR-PROTNST-<STSN>](#)
[REPT EVT <STSN>](#)
[REPT RST <STSN>](#)
[RMV-<STSN>](#)
[RTRV-<STSN>](#)
[RTRV-COND-<STSN>](#)
[RTRV-GOS-<STSN>](#)

Input Format

```
ENT-<STSN>:[TID]:<StsAid>:[CTAG]:::
  STSMAP=<STSMAP>, [ [ TIMDET=<TIMDET>, ] [ EXPTRC=<EXPTRC>, ] [ TRC=<TRC>, ]
    [ FEPM=<FEPM>, ] [ ALMPROF=<ALMPROF>, ] [ SDBER=<SDBER>, ] [ SFBER=<SFBER>, ]
  [ GOS=<GOS>, ] [ PYLDSCRM=<PYLDSCRM>, ] [ ATMMON=<ATMMON>, ] [ DESC=<DESC> ] ]:[<PST>]
```

,[<SST>];

Input Parameters

StsAid	STS Path Access Identifier. The address of the STS path being created. <i>StsAid</i> is the AID StsAid .
STSMAP	STS Mapping. This parameter indicates the type of mapping supported by the STS-p SPE. <i>STSMAP</i> is of type StsMap .
TIMDET	Trace Identifier Mismatch Detection. This parameter indicates whether to turn on or off the trace identifier mismatch detection for the expected trace. <i>TIMDET</i> is of type OnOff . The default value is "OFF".
EXPTRC	Expected Path Trace. This parameter is the expected Path Trace (J1) content. The maximum length of the string is 62 characters. The system will automatically add a carriage return (CR) and line feed (LF) to end of string to make it 64 characters. <i>EXPTRC</i> is a String. The default value is "NULL".
TRC	Transmit Path Trace. This parameter indicates the path trace to be transmitted. The maximum length of the string is 62 characters. The system will automatically add a carriage return (CR) and line feed (LF) to end of string to make it 64 characters. <i>TRC</i> is a String. The default value is "NULL".
FEPM	Far End Performance Monitoring. When this parameter is set to "N", the Far End Performance Monitoring data is not collected. When retrieving Far End PM, the Monitored Values (MONVAL) field will contain '0' and the Validity (VLDTY) field will contain 'INVLD'. When this parameter is set to "Y", data collection for Far End Performance Monitoring is enabled. The default value is "N". <i>FEPM</i> is of type BoolYN . The default value is "N".
ALMPROF	Alarm Profile. The set of alarm Notification codes to be associated with this entity. <i>ALMPROF</i> is the AID AlmProfileStsAid . The default value is "AISNR".
SDBER	Signal Degraded Bit Error Rate. The threshold value above which the Path's bit error rate constitutes a Degraded Signal. <i>SDBER</i> is of type BitErrorRateSD . The default value is "6".
SFBER	Signal Failed Bit Error Rate. The threshold value above which the Path's bit error rate constitutes a Failed Signal. <i>SFBER</i> is of type BitErrorRateSF . The default value is "4".
GOS	Grade of Service Access Identifier. This identifies the specific Grade of Service for Performance Monitoring (PM) which will be applied to the STSnC facility. <i>GOS</i> is the AID GosAid . The default value is "OFF".
PYLDSCRM	Payload Scrambling. This parameter is set to Y to enable the scrambling of ATM cells. <i>PYLDSCRM</i> is of type BoolYN . The default value is "Y".
ATMMON	ATM Diagnostic Monitoring. This parameter is set to Y to enable ATM diagnostic monitoring on the STS path. If enabled, an ATM OAM loopback ping is injected on VP0-VC3 to verify point-to-point connectivity with the next line unit. It applies only to ATMNNI and ATMUNI interfaces. The default value is Y for internal interfaces and N for external interfaces. <i>ATMMON</i> is of type BoolYN .
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String.
PST	Primary Service State. This is the service state which the user wants the entity to transition into. <i>PST</i> is of type PrimaryStateChg . The default value is "IS".

SST Secondary Service State. The only secondary service state which is provisionable is SB. It only applies when the PST is OOS. SST is of type [SecondaryStateChgSB](#).

Input Example

```
ENT-STS12C:SYS99:N4-4-2-3-1:234:::STSMAP=PT,TIMDET=ON,
EXPTRC="EXPECTED PATH
TRACE",TRC="TRACE",FEPM=Y,ALMPROF=AISNR,SDBER=6,
SFBER=4,GOS=3,PYLDSCRM=Y,ATMMON=Y,DESC="DESCRIPTION":OOS,SB;
```

Errors

This message generates all of the [Default Errors](#).

ENT-ADSL

Name

ENT-ADSL: Enter Asymmetric Digital Subscriber Line

Description

Category: ADSL Facility **Security:** Memory Admin - by rate

This allows an ADSL port to be provisioned for the first time. This command can define the type of services which will be provided by the ADSL service.

A Profile (PROF) parameter may be specified as a source of the configuration parameters. Any values in this profile may be over-ridden by specifying the explicit value of the parameter in this ENT-ADSL command or by changing it in the ED-ADSL command.

Service Type -- single-channel

Service Type	XDSR0 (Max DS 0)	MDSR0 (Min DS 0)	XUSR0 (Max US 0)	MUSR0 (Min US 0)
MM	32-16352 (8160)	32-16352 (384)	32-2048 (800)	32-2048 (128)
MM2+	32-32736 (32736)	32-32736 (384)	32-2048 (800)	32-2048 (128)
G.DMT	32-16352 (8160)	32-16352 (384)	32-2048 (800)	32-2048 (128)
G.LITE	32-1536 (1536)	32-1536 (384)	32-512 (512)	32-512 (128)
T1.413	32-16352 (8160)	32-16352 (384)	32-2048 (800)	32-2048 (128)
ADSL2	32-16352 (16352)	32-16352 (384)	32-2048 (800)	32-2048 (128)
ADSL2+	32-32736 (32736)	32-32736 (384)	32-2048 (800)	32-2048 (128)

READSL2	32-1536 (1536)	32-1536 (384)	32-512 (512)	32-512 (128)
ANNEXM	32-32736 (32736)	32-32736 (384)	32-3072 (800)	32-3072 (128)

Note: Currently, only single-channel mode is supported.

Note: all values in kbps and multiples of 32.

Note: default values are in parentheses.

Note: the Minimum rates cannot be bigger than the Maximum rates for the same direction (up/down-stream)

There are two methods of provisioning: "best effort" and "fixed rate" In best effort provisioning, the minimum rates are set low and the maximum rates are set high so as to allow the modem to adapt to the best values within the range. In fixed rate provisioning, the user sets the minimum and maximum rates to the same value, forcing the modem to that value. It should be noted that thus setting the minimum to some value towards the maximum end of the range can cause problems with modem synchronization.

Also note that the actual rates achieved by a modem may not reach the maximum provisioned rate. For example, although the Maximum Downstream Rate for single-channel is 16352 kbps, the best seen in testing is with the Westel 2400 modem, which achieved a rate of 11300 kbps.

Tone Configuration

The user may optionally select the index of the start and end tones in upstream and downstream directions. This feature does not apply to the MM service type.

If any one of DSST, DSET, USST, or USET is zero, the chipset default tone configurations will be used and these provisioned values will be ignored. Ranges and defaults for the supported service types are shown in the following table.

Service Type	DSST	DSET	USST	USET
GDMT, GLITE, T1413, ADSL2	32-255 (32)	32-255 (255)	6-30 (6)	6-30 (30)
ADSL2+, ANNEXM	32-511(32)	32-511 (511)	6-30 (6)	6-30 (30)

Power Management

The Power Management parameters (PMMODE, L0TIME, L2TIME, L2ATPR, L2MINR, L2EXITR, L2ENTRYR, L2ENTRYT) apply for service types: ADSL2, ADSL2+, READSL2, MM2+.

Rate Adaptation

The Rate Adaptation parameters (RADMDS, RADMUS, RAUMDS, RAUMUS) apply for service types: ADSL2, ADSL2+, READSL2, MM2+. They must satisfy the relationships:

MMDS <= RADMDS <= TMDS <= RAUMDS <= XMDS, and

MMUS <= RADMUS <= TMUS <= RAUMUS <= XMUS

Parameter Defaults

All parameters not specified in the request will default to the values defined by the profile used for the request. If PROF is not specified, the built-in ADSL profile corresponding to the given SRVTYPE will be used to supply defaults. The default SRVTYPE is MM.

Defined in GR-199.

Related Messages:

[DLT-ADSL](#)
[DLT-TMPLT-ADSL](#)
[ED-GOS-ADSL](#)
[ENT-TMPLT-ADSL](#)
[INIT-PWR-ADSL](#)
[REPT ALM ADSL](#)
[REPT RMV ADSL](#)
[RMV-ADSL](#)
[RTRV-ADSL](#)
[RTRV-COND-ADSL](#)
[RTRV-GOS-ADSL](#)
[RTRV-TMPLT-ADSL](#)

[DLT-GOS-ADSL](#)
[ED-ADSL](#)
[ENT-GOS-ADSL](#)
[INIT-ADSL](#)
[INIT-REG-ADSL](#)
[REPT EVT ADSL](#)
[REPT RST ADSL](#)
[RST-ADSL](#)
[RTRV-ALM-ADSL](#)
[RTRV-CSTAT-ADSL](#)
[RTRV-PM-ADSL](#)

Input Format

```
ENT-ADSL:[TID]:<AdslAid>:[CTAG]:::<SRVTYPE>,[<CHNL0>],[<CHNL1>]:  

[ [PROF=<PROF>,>][XDSR0=<XDSR0>,>][MDSR0=<MDSR0>,>][XUSR0=<XUSR0>,>]  

[ MUSR0=<MUSR0>,>][XDSR1=<XDSR1>,>][MDSR1=<MDSR1>,>][XUSR1=<XUSR1>,>]  

[ MUSR1=<MUSR1>,>][DSEXR=<DSEXR>,>][USEXR=<USEXR>,>][TMDS=<TMDS>,>]  

[ XMDS=<XMDS>,>][MMDS=<MMDS>,>][TMUS=<TMUS>,>][XMUS=<XMUS>,>][MMUS=<MMUS>,>]  

[ DSLAT=<DSLAT>,>][USLAT=<USLAT>,>][TC=<TC>,>][RAMODEDS=<RAMODEDS>,>]  

[ RAMODEUS=<RAMODEUS>,>][RAUMDS=<RAUMDS>,>][RADMDS=<RADMDS>,>]  

[RAUTDS=<RAUTDS>,>][RADTDS=<RADTDS>,>][RAUMUS=<RAUMUS>,>][RADMUS=<RADMUS>,>]  

[RAUTUS=<RAUTUS>,>][RADTUS=<RADTUS>,>][PMMODE=<PMMODE>,>][LOTIME=<LOTIME>,>]  

[L2TIME=<L2TIME>,>][L2ATPR=<L2ATPR>,>][L2MINR=<L2MINR>,>][L2EXITR=<L2EXITR>,>]  

[L2ENTRYR=<L2ENTRYR>,>][L2ENTRYT=<L2ENTRYT>,>][DSST=<DSST>,>][DSET=<DSET>,>]  

[USST=<USST>,>][USET=<USET>,>][GOS=<GOS>,>][REPTRMVRST=<REPTRMVRST>,>]  

[INCL=<INCL>,>][DESC=<DESC>,>]:[<PST>,>][<SST>];
```

Input Parameters

AdslAid	Asymmetrical Digital Subscriber Line Access Identifier. The address of the ADSL port being provisioned. <i>AdslAid</i> is the AID TwentyFourPortLuAid .
SRVTYPE	Service Type. This parameter specifies the ADSL operating modes that dictate the ADSL handshaking protocol, channel capacity, and other physical line characteristics based on ADSL specifications. <i>SRVTYPE</i> is of type AdslType . The default value is "MM".
CHNL0	Channel 0 Selection/Allocation. Settings for channel path latency. Choosing a latency path of Fast means minimum (4 ms) delay is expected while choosing a latency path of Interleaved means more delay. <i>CHNL0</i> is of type ChnlSelect0 . The default value is "INTLV".
CHNL1	Channel 1 Selection/Allocation. Settings for channel path latency. Choosing a latency path of Fast means minimum (2 ms) delay is expected while choosing a latency path of Interleaved means more delay. <i>CHNL1</i> is of type ChnlSelect1 . The default value is "DISABLE".
PROF	ADSL Profile. This specifies the ADSL profile which is to set the initial values for the

configuration parameters for the ADSL line. These parameters may be over-ridden by the values specified in the other parameters of the ENT-ADSL command. *PROF* is the AID [DslProfAid](#).

XDSR0	Maximum Downstream Rate - Channel 0 (kbps). <i>XDSR0</i> is of type DwnStreamRate .
MDSR0	Minimum Downstream Rate - Channel 0 (kbps). <i>MDSR0</i> is of type DwnStreamRate . The default value is "384".
XUSR0	Maximum Upstream Rate - Channel 0 (kbps). <i>XUSR0</i> is of type UpStreamRate .
MUSR0	Minimum Upstream Rate - Channel 0 (kbps). <i>MUSR0</i> is of type UpStreamRate . The default value is "128".
XDSR1	Maximum Downstream Rate - Channel 1 (kbps). <i>XDSR1</i> is of type DwnStreamRate .
MDSR1	Minimum Downstream Rate - Channel 1 (kbps). <i>MDSR1</i> is of type DwnStreamRate .
XUSR1	Maximum Upstream Rate - Channel 1 (kbps). <i>XUSR1</i> is of type UpStreamRate .
MUSR1	Minimum Upstream Rate - Channel 1 (kbps). <i>MUSR1</i> is of type UpStreamRate .
DSEXR	Downstream Excess Rate Ratio. The ratio configuration values, 1 for downstream and 1 for upstream, specify the ratio (expressed in %) of excess bit rate that is to be applied to the primary bearer channel before applying bit rate to the secondary bearer channel. The primary channel will always be channel 0. The excess bit rate is the rate considered for rate adaptation amongst the primary and secondary channels (Channel 0 and Channel 1). The rate that can be considered excess is the rate in excess of the minimum bit rate parameter for each DS and US channel. (Values in kbps) <i>DSEXR</i> is of type ExcessRate . The default value is "100".
USEXR	Upstream Excess Rate Ratio. The ratio configuration values, 1 for downstream and 1 for upstream, specify the ratio (expressed in %) of excess bit rate that is to be applied to the primary bearer channel before applying bit rate to the secondary bearer channel. The primary channel will always be channel 0. The excess bit rate is the rate considered for rate adaptation amongst the primary and secondary channels (Channel 0 and Channel 1). The rate that can be considered excess is the rate in excess of the minimum bit rate parameter for each DS and US channel. (Values in kbps) <i>USEXR</i> is of type ExcessRate . The default value is "100".
TMDS	Target Downstream SNR Margin. This parameter specifies the desired downstream signal to noise ratio margin in dB. This margin specifies how much noise can increase while still achieving a BER of at least 10-7. Actual connection margins may be greater than or less than the desired target margin based on the configured maximum and minimum downstream bit rates. Higher connect margins will result when maximum configured data rates are lower than the maximum achievable data rates. Lower connect margins will result when the minimum configured data rate is not achievable at the desired margin. <i>TMDS</i> is of type SnrTargetMargins . The default value is "8".
XMDS	Maximum Downstream SNR Margin. This parameter specifies the maximum downstream signal to noise ratio (SNR) margin in dB. This margin is a threshold for reducing the transmit power of the ATU-C. It may not always be possible to reduce the actual connection margin for short loops and lower bit rate configuration. As a result, a connect margin greater than the specified maximum margin is possible. The maximum downstream SNR margin must be greater than the target downstream SNR margin. <i>XMDS</i> is of type SnrMaxMargins . The default value is "16".
MMDS	Minimum Downstream SNR Margin. This parameter specifies the minimum

downstream signal to noise ratio margin in dB. This margin specifies the minimum threshold allowed for modem operation. The connection will fail if the operating downstream margin falls below the specified minimum for more than 20 seconds and a modem retrain will be attempted. The minimum downstream margin must be less than the target downstream margin. *MMDS* is of type [SnrMinMargins](#). The default value is "0".

TMUS Target Upstream SNR Margin. This parameter specifies the desired upstream signal to noise ratio (SNR) margin in dB. This margin specifies how much noise can increase while still achieving a BER of at least 10-7. Actual connection margins may be greater than or less than the desired target margin based on the configured maximum and minimum upstream bit rates. Higher connect margins will result when maximum configured data rates are lower than the maximum achievable data rates. Lower connect margins will result when the minimum configured data rate is not achievable at the desired margin. *TMUS* is of type [SnrTargetMargins](#). The default value is "8".

XMUS Maximum Upstream SNR Margin. This parameter specifies the maximum upstream signal to noise ratio (SNR) margin in dB. This margin is a threshold for reducing the transmit power of the ATU-R. It may not always be possible to reduce the actual connection margin for short loops and lower bit rate configuration. As a result, a connect margin greater than the specified maximum margin is possible. The maximum upstream SNR margin must be greater than the target upstream SNR margin. *XMUS* is of type [SnrMaxMargins](#). The default value is "16".

MMUS Minimum Upstream SNR Margin. This parameter specifies the minimum upstream signal to noise ratio (SNR) margin in dB. This margin specifies the minimum threshold allowed for modem training. The connection will fail if the operating upstream margin falls below the specified minimum for more than 20 seconds. The minimum upstream margin must be less than the target upstream margin *MMUS* is of type [SnrMinMargins](#). The default value is "0".

DSLAT Downstream Latency. Latency is the delay in data transmission through the DSL link. Latency parameter is configured in milliseconds. The AUTO setting allows the ADSL card to pick the most appropriate interleave latency. If either DSLAT or USLAT is set to AUTO, both will be set to AUTO in h/w. NOTE: If both DSLAT and USLAT are set to the value "AUTO", neither parameter can be changed individually. Both of these parameters must be set to a numeric value at the same time in order to change them. The "AUTO" value must be set for both DSLAT and USLAT if you want to use "AUTO" for either direction. *DSLAT* is of type [Latency](#). The default value is "AUTO".

USLAT Upstream Latency. Latency is the delay in data transmission through the DSL link. Latency parameter is configured in milliseconds. The AUTO setting allows the ADSL card to pick the most appropriate interleave latency. If either DSLAT or USLAT is set to AUTO, both will be set to AUTO in h/w. NOTE: If both DSLAT and USLAT are set to the value "AUTO", neither parameter can be changed individually. Both of these parameters must be set to a numeric value at the same time in order to change them. The "AUTO" value must be set for both DSLAT and USLAT if you want to use "AUTO" for either direction. *USLAT* is of type [Latency](#). The default value is "AUTO".

TC Trellis Coding. Enables trellis coding to improve the DSL system performance. Trellis coding is an encoding scheme for piggybacking bits onto the electrical signal on the twisted pair. *TC* is of type [TrellisCoding](#). The default value is "ENABLED".

RAMODEDS Rate Adaptation MODE DownStream. *RAMODEDS* is of type [RateAdaptationMode](#). The default value is "INIT".

RAMODEUS	Rate Adaptation MODE UpStream. <i>RAMODEUS</i> is of type RateAdaptationMode . The default value is "INIT".
RAUMDS	Rate Adaptation Upshift Margin DownStream (dB). This applies when RAMODE is DYNAMIC. <i>RAUMDS</i> must be greater than <i>RADMDS</i> . <i>RAUMDS</i> is of type SnrMaxMargins . The default value is "9".
RADMDS	Rate Adaptation Downshift Margin DownStream (dB). This applies when RAMODE is DYNAMIC. <i>RAUMDS</i> must be greater than <i>RADMDS</i> . <i>RADMDS</i> is of type SnrMaxMargins . The default value is "3".
RAUTDS	Rate Adaptation Upshift Time Downstream (seconds). This applies when RAMODE is DYNAMIC. <i>RAUTDS</i> is of type RateAdaptationMarginSeconds . The default value is "60".
RADTDS	Rate Adaptation Downshift Time Downstream (seconds). This applies when RAMODE is DYNAMIC. <i>RADTDS</i> is of type RateAdaptationMarginSeconds . The default value is "60".
RAUMUS	Rate Adaptation Upshift Margin UpStream (dB). This applies when RAMODE is DYNAMIC. <i>RAUMUS</i> must be greater than <i>RADMUS</i> . <i>RAUMUS</i> is of type SnrMaxMargins . The default value is "9".
RADMUS	Rate Adaptation Downshift Margin UpStream (dB). This applies when RAMODE is DYNAMIC. <i>RAUMUS</i> must be greater than <i>RADMUS</i> . <i>RADMUS</i> is of type SnrMaxMargins . The default value is "3".
RAUTUS	Rate Adaptation Upshift Time UpStream (seconds). This applies when RAMODE is DYNAMIC. <i>RAUTUS</i> is of type RateAdaptationMarginSeconds . The default value is "60".
RADTUS	Rate Adaptation Downshift Time UpStream (seconds). This applies when RAMODE is DYNAMIC. <i>RADTUS</i> is of type RateAdaptationMarginSeconds . The default value is "60".
PMMODE	Power Management MODE. <i>PMMODE</i> is of type AdslPowerMgmtStates . The default value is "L0".
L0TIME	Minimum L0 Time interval between L2 exit and next L2 entry. (0-255 seconds) <i>L0TIME</i> is a Integer. The default value is "255".
L2TIME	Minimum L2 time interval between L2 entry and first L2 trim. (0-255 seconds) <i>L2TIME</i> is a Integer. The default value is "255".
L2ATPR	Maximum Aggregate Transmit Power Reduction per L2 trim. (dB) <i>L2ATPR</i> is of type SnrMaxMargins . The default value is "3".
L2MINR	Minimum Data Rate in Low Power Mode (L2). This parameter specifies the minimum net data rate (in Kbps) during the low power state. If the actual user data rate is lower than L2MINR, raw cells will be injected to maintain the provisioned value. The value can range from 256 to 1024 Kbps. <i>L2MINR</i> is a Integer. The default value is "1024".
L2EXITR	L2 Exit Rate Threshold. This parameter specifies the downstream datarate threshold (in Kbps), which triggers exit from low power state (L2). The value ranges between 1 and 1024 Kbps, and must be less than L2MINR. <i>L2EXITR</i> is a Integer. The default value is "512".
L2ENTRYR	L2 Entry Rate Threshold. This parameter specifies the downstream data rate threshold (in Kbps), which triggers autonomous entry into low power state (L2). The value can

range from 1 to 1024, and must be less or equal to L2EXITR. *L2ENTRYR* is a Integer. The default value is "1".

L2ENTRYT	L2 Entry Time Threshold. This parameter specifies minimum interval of time (in seconds) that the net data rate should stay below L2ENTRYR before autonomous entry into low power state (L2). The value can range from 900 to 65535 seconds. <i>L2ENTRYT</i> is a Integer. The default value is "180".
DSST	DownStream Start Tone index. DSST must be less than or equal to DSET. <i>DSST</i> is a Integer. The default value is "0".
DSET	DownStream End Tone index. DSET must be greater than or equal to DSST. <i>DSET</i> is a Integer. The default value is "0".
USST	UpStream Start Tone index. USST must be less than or equal to USET. <i>USST</i> is a Integer. The default value is "0".
USET	UpStream End Tone index. USET must be greater than or equal to USST. <i>USET</i> is a Integer. The default value is "0".
GOS	Grade of service. This identifies the ADSL grade of service for performance monitoring (PM) which will be applied to the ADSL port. <i>GOS</i> is the AID GosAid . The default value is "OFF".
REPTRMVRST	This parameter inhibits or enables the reporting of RMV/RST events for the port. Note that RMV/RST are reported upon every modem retrain and can clutter the event logs if enabled. <i>REPTRMVRST</i> is of type BoolYN . The default value is "N".
INCL	INCLusive <i>INCL</i> is of type BoolYN . The default value is "N".
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String.
PST	Primary Service State. This is the service state which the user wants the entity to transition into. <i>PST</i> is of type PrimaryStateChg . The default value is "IS".
SST	Secondary Service State. The only secondary service state which is provisionable is SB. It only applies when the PST is OOS. <i>SST</i> is of type SecondaryStateChgSB .

Input Example

```
ENT-ADSL:SYS3:N1-1-3-1:439::ADSL2+,FAST,DISABLE:PROF=3,XDSR0=48,MDSR0=32,
XUSR0=32,MUSR0=32,XDSR1=32,MDSR1=32,XUSR1=32,MUSR1=32,DSEXR=50,USEXR=50,
TMDS=6,XMDS=31,MMDS=0,TMUS=6,XMUS=31,MMUS=0,DSLAT=24,USLAT=24,TC=ENABLED,
RAMODEDS=DYNAMIC,RAMODEUS=DYNAMIC,RAUMDS=31,RADMDS=0,RAUTDS=30,RADTDS=30,
RAUMUS=31,RADMUS=0,RAUTUS=30,RADTUS=30,PMMODE=L2,L0TIME=5,L2TIME=5,
L2ATPR=2,L2MINR=1024,L2EXITR=512,L2ENTRYR=1,L2ENTRYT=1800,DSST=32,DSET=511,
USST=6,USET=30,GOS=OFF,REPTRMVRST=N,INCL=N,DESC="DESCRIPTION":OOS,SB;
```

Errors

This message generates all of the [Default Errors](#).

ENT-AGG

Name

ENT-AGG: ENT AGG

Description

Category: Ethernet **Security:** Memory Admin - by rate

Creates a Link Aggregate with the provided parameters.

This command is not currently supported.

Related Messages:

[DLT-AGG](#)

[DLT-AGG-PORT](#)

[DLT-ETH-ACL](#)

[DLT-LSWITCH](#)

[DLT-PROF-ETH](#)

[DLT-VLAN-PORT](#)

[ED-ETH](#)

[ED-VLAN](#)

[ED-VLAN-VBPORT](#)

[ENT-AGG-PORT](#)

[ENT-ETH-ACL](#)

[ENT-LSWITCH](#)

[ENT-PROF-ETH](#)

[ENT-VLAN-PORT](#)

[INIT-LSWITCH](#)

[REPT ALM ETH](#)

[REPT RMV ETH](#)

[RMV-ETH](#)

[RTRV-AGG](#)

[RTRV-AGG-PORT](#)

[RTRV-COND-ETH](#)

[RTRV-ETH-ACL](#)

[RTRV-LSWITCH](#)

[RTRV-PM-ETH](#)

[RTRV-STAT-ETH](#)

[RTRV-VLAN-PORT](#)

[DLT-AGG-ACL](#)

[DLT-ETH](#)

[DLT-GOS-ETH](#)

[DLT-LSWITCH-PORT](#)

[DLT-VLAN](#)

[DLT-VLAN-VBPORT](#)

[ED-GOS-ETH](#)

[ED-VLAN-PORT](#)

[ENT-AGG-ACL](#)

[ENT-ETH](#)

[ENT-GOS-ETH](#)

[ENT-LSWITCH-PORT](#)

[ENT-VLAN](#)

[ENT-VLAN-VBPORT](#)

[INIT-STAT-ETH](#)

[REPT EVT ETH](#)

[REPT RST ETH](#)

[RST-ETH](#)

[RTRV-AGG-ACL](#)

[RTRV-ALM-ETH](#)

[RTRV-ETH](#)

[RTRV-GOS-ETH](#)

[RTRV-LSWITCH-PORT](#)

[RTRV-PROF-ETH](#)

[RTRV-VLAN](#)

[RTRV-VLAN-VBPORT](#)

Input Format

ENT-AGG:[TID]:<EthAggAid>:[CTAG];

Input Parameters

EthAggAid Link Aggregate Access Identifier. *EthAggAid* is the AID [EthAggAid](#).

Input Example

```
ENT-AGG::N1-1-2-AGG5:321;
```

Errors

This message generates all of the [Default Errors](#).

ENT-AGG-ACL

Name

ENT-AGG-ACL: Enter AGG ACL

Description

Category: Ethernet **Security:** Memory Admin - by rate

Creates an aggregate element of the Address Control List on the external port.

An Address Control List consists of up to 8 Src address/mask pairs. Filtering on this port is always inclusive.

The Mac Address Mask is always optional. If left out it defaults to all 1's.

This command is not currently supported.

Related Messages:

[DLT-AGG](#)
[DLT-AGG-PORT](#)
[DLT-ETH-ACL](#)
[DLT-LSWITCH](#)
[DLT-PROF-ETH](#)
[DLT-VLAN-PORT](#)
[ED-ETH](#)
[ED-VLAN](#)

[DLT-AGG-ACL](#)
[DLT-ETH](#)
[DLT-GOS-ETH](#)
[DLT-LSWITCH-PORT](#)
[DLT-VLAN](#)
[DLT-VLAN-VBPORT](#)
[ED-GOS-ETH](#)
[ED-VLAN-PORT](#)

ED-VLAN-VBPORT	ENT-AGG
ENT-AGG-PORT	ENT-ETH
ENT-ETH-ACL	ENT-GOS-ETH
ENT-LSWITCH	ENT-LSWITCH-PORT
ENT-PROF-ETH	ENT-VLAN
ENT-VLAN-PORT	ENT-VLAN-VBPORT
INIT-LSWITCH	INIT-STAT-ETH
REPT ALM ETH	REPT EVT ETH
REPT RMV ETH	REPT RST ETH
RMV-ETH	RST-ETH
RTRV-AGG	RTRV-AGG-ACL
RTRV-AGG-PORT	RTRV-ALM-ETH
RTRV-COND-ETH	RTRV-ETH
RTRV-ETH-ACL	RTRV-GOS-ETH
RTRV-LSWITCH	RTRV-LSWITCH-PORT
RTRV-PM-ETH	RTRV-PROF-ETH
RTRV-STAT-ETH	RTRV-VLAN
RTRV-VLAN-PORT	RTRV-VLAN-VBPORT

Input Format

```
ENT-AGG-
ACL:[ TID ]:<EthAggAid>:[ CTAG ]:::[ [ MAC=<MAC> , ] [ MMSK=<MMSK> ] ] ;
```

Input Parameters

EthAggAid Ethernet Aggregate ACL Access Identifier. *EthAggAid* is the AID [EthAggAid](#).

MAC MAC address. *MAC* is the AID [MacAid](#).

MMSK MAC address mask. *MMSK* is the AID [MacAid](#).

Input Example

```
ENT-AGG-ACL:SYS1:N4-3-1-2-AGG32:345:::MAC=01-23-45-67-89-AB ,
MMSK=01-23-45-67-89-AB ;
```

Errors

This message generates all of the [Default Errors](#).

ENT-AGG-PORT

Name

ENT-AGG-PORT: ENT AGG PORT

Description

Category: Ethernet **Security:** Memory Admin - by rate

Adds a port to a Link Aggregate with the provided parameters.

This command is not currently supported.

Related Messages:

DLT-AGG	DLT-AGG-ACL
DLT-AGG-PORT	DLT-ETH
DLT-ETH-ACL	DLT-GOS-ETH
DLT-LSWITCH	DLT-LSWITCH-PORT
DLT-PROF-ETH	DLT-VLAN
DLT-VLAN-PORT	DLT-VLAN-VBPORT
ED-ETH	ED-GOS-ETH
ED-VLAN	ED-VLAN-PORT
ED-VLAN-VBPORT	ENT-AGG
ENT-AGG-ACL	ENT-ETH
ENT-ETH-ACL	ENT-GOS-ETH
ENT-LSWITCH	ENT-LSWITCH-PORT
ENT-PROF-ETH	ENT-VLAN
ENT-VLAN-PORT	ENT-VLAN-VBPORT
INIT-LSWITCH	INIT-STAT-ETH
REPT ALM ETH	REPT EVT ETH
REPT RMV ETH	REPT RST ETH
RMV-ETH	RST-ETH
RTRV-AGG	RTRV-AGG-ACL
RTRV-AGG-PORT	RTRV-ALM-ETH
RTRV-COND-ETH	RTRV-ETH
RTRV-ETH-ACL	RTRV-GOS-ETH
RTRV-LSWITCH	RTRV-LSWITCH-PORT
RTRV-PM-ETH	RTRV-PROF-ETH
RTRV-STAT-ETH	RTRV-VLAN
RTRV-VLAN-PORT	RTRV-VLAN-VBPORT

Input Format

ENT-AGG-PORT: [TID] : <EthAggAid> : [CTAG] : : : [PLOCN=<PLOCN>] ;

Input Parameters

EthAggAid Link Aggregate Access Identifier. *EthAggAid* is the AID [EthAggAid](#).

PLOCN Physical LOCatioN of the port. This specifies the location of the Link Aggregate port.
PLOCN is the AID [TwelvePortLuAid](#).

Input Example

```
ENT-AGG-PORT::N1-1-2-AGG5:321:::PLOCN=N1-2-3-4;
```

Errors

This message generates all of the [Default Errors](#).

ENT-AP

Name

ENT-AP: Enter ATM Resource Port

Description

Category: IMA Group **Security:** Memory Admin - by rate

This command creates an ATM Resource port within the system.

Related Messages:

[DLT-AP](#)

[DLT-AP-T1](#)

[DLT-GOS-AP](#)

[DLT-GOS-IMA](#)

[DLT-GOS-IMALINK](#)

[DLT-IMA](#)

[DLT-IMA-PORT](#)

[ED-AP](#)

[ED-GOS-AP](#)

[ED-GOS-IMA](#)

[ED-GOS-IMALINK](#)

[ED-IMA](#)

[ENT-AP-T1](#)

[ENT-GOS-AP](#)

[ENT-GOS-IMA](#)

[ENT-GOS-IMALINK](#)

[ENT-IMA](#)

[ENT-IMA-PORT](#)

[INIT-REG-AP](#)

[INIT-REG-IMA](#)

[INIT-REG-IMALINK](#)

[REPT ALM AP](#)

[REPT ALM IMA](#)

[REPT ALM IMALINK](#)

[REPT EVT AP](#)

[REPT EVT IMA](#)

[REPT EVT IMALINK](#)
[REPT RST AP](#)
[RMV-IMA](#)
[RST-IMA](#)
[RTRV-ALM-IMA](#)
[RTRV-AP](#)
[RTRV-COND-IMA](#)
[RTRV-GOS-IMA](#)
[RTRV-IMA](#)
[RTRV-PM-IMA](#)

[REPT RMV AP](#)
[RMV-AP](#)
[RST-AP](#)
[RTRV-ALM-AP](#)
[RTRV-ALM-IMALINK](#)
[RTRV-COND-AP](#)
[RTRV-GOS-AP](#)
[RTRV-GOS-IMALINK](#)
[RTRV-PM-AP](#)
[RTRV-PM-IMALINK](#)

Input Format

```
ENT-AP : [ TID ] : <ApAid> : [ CTAG ] :: : [ [ ATMMAP=<ATMMAP> , ] [ PYLDSCRM=<PYLDSCRM> , ]
[ ATMMON=<ATMMON> , ] [ PDOM=<PDOM> , ] [ GOS=<GOS> , ] [ DESC=<DESC> ] ] : [ <PST> ] , [ <SST> ]
;
```

Input Parameters

ApAid	<i>ApAid</i> is the AID AtmRscPortAid .
ATMMAP	When payload signal is a form that may be altered at the ATM Resource port, this parameter specifies the mapping. <i>ATMMAP</i> is of type AtmMap . The default value is "IMA".
PYLDSCRM	This parameter is set to Y to enable the scrambling of ATM cells. It is only applicable when ATMMAP is UNI or NNI. <i>PYLDSCRM</i> is of type BoolYN . The default value is "N".
ATMMON	This parameter is set to Y to enable ATM diagnostic monitoring on the STS path. If enabled, an ATM OAM loopback ping is injected on VP0-VC3 to verify point-to-point connectivity with the next line unit. It applies only to NNI and UNI interfaces <i>ATMMON</i> is of type BoolYN . The default value is "N".
PDOM	Protection Domain. This is an integer that is used to associate a transport facility into a protection domain that is used for A to Z connection provisioning. The PDOM for each domain must be a unique non-zero integer. The value of 0 is reserved to indicate that the facility is not to be used for A to Z connections <i>PDOM</i> is of type Pdom . The default value is "0".
GOS	Grade of Service. This identifies the AP grade of service for performance monitoring (PM) which will be applied to the AP port. <i>GOS</i> is the AID GosAid . The default value is "OFF".
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String.
PST	Grade of Service. This identifies the AP grade of service for performance monitoring (PM) which will be applied to the AP port. <i>PST</i> is of type PrimaryStateChg .
SST	Secondary Service State. The only secondary service state which is provisionable is SB. It only applies when the PST is OOS. <i>SST</i> is of type SecondaryStateChgSB .

Input Example

```
ENT-AP:SYS3:N1-3-5-
AP16:432:::ATMMAP=IMA, PYLDSCRM=N, ATMMON=Y, PDOM=1, GOS=OFF,
DESC="DESCRIPTION":OOS, SB;
```

Errors

This message generates all of the [Default Errors](#).

ENT-AP-T1

Name

ENT-AP-T1: Enter ATM Resource Port Digital Signal One

Description

Category: IMA Group **Security:** Memory Admin - by rate

This command creates an association between an ATM Resource Port and a T1 or HDSL port on the same shelf. "AP" ports are used to build IMA groups for IMA-12 equipment, but must first be associated with a physical T1/HDSL facility.

Note that there is no RTRV-AP-T1. Both RTRV-AP and RTRV-T1 will indicate if an association has been made.

Related Messages:

DLT-AP	DLT-AP-T1
DLT-CRS-T1	DLT-GOS-AP
DLT-GOS-IMA	DLT-GOS-IMALINK
DLT-GOS-T1	DLT-IMA
DLT-IMA-PORT	DLT-T1
ED-AP	ED-GOS-AP
ED-GOS-IMA	ED-GOS-IMALINK
ED-GOS-T1	ED-IMA
ED-T1	ENT-AP
ENT-CRS-T1	ENT-GOS-AP
ENT-GOS-IMA	ENT-GOS-IMALINK
ENT-GOS-T1	ENT-IMA
ENT-IMA-PORT	ENT-T1
INIT-REG-AP	INIT-REG-IMA
INIT-REG-IMALINK	INIT-REG-T1

OPR-LPBK-T1	REPT ALM AP
REPT ALM IMA	REPT ALM IMALINK
REPT ALM T1	REPT EVT AP
REPT EVT IMA	REPT EVT IMALINK
REPT EVT T1	REPT RMV AP
REPT RMV T1	REPT RST AP
REPT RST T1	RLS-LPBK-T1
RMV-AP	RMV-IMA
RMV-T1	RST-AP
RST-IMA	RST-T1
RTRV-ALM-AP	RTRV-ALM-IMA
RTRV-ALM-IMALINK	RTRV-ALM-T1
RTRV-AP	RTRV-COND-AP
RTRV-COND-IMA	RTRV-COND-T1
RTRV-CRS-T1	RTRV-GOS-AP
RTRV-GOS-IMA	RTRV-GOS-IMALINK
RTRV-GOS-T1	RTRV-IMA
RTRV-PM-AP	RTRV-PM-IMA
RTRV-PM-IMALINK	RTRV-PM-T1
RTRV-T1	

Input Format

ENT-AP-T1:[TID]:<ApAid>:[CTAG]::<PLOCN>;

Input Parameters

ApAid *ApAid* is the AID [AtmRscPortAid](#).

PLOCN Physical Location. This is the AID of a T1 or HDSL port being associated with the AP port.
PLOCN is the AID [TwelvePortLuAid](#).

Input Example

ENT-AP-T1:SYS3:N1-3-2-AP4:556::N1-3-2-4;;

Errors

This message generates all of the [Default Errors](#).

ENT-AVO

Name

ENT-AVO: Enter Analog Video Overlay

Description

Category: PON **Security:** Memory Admin - by rate

This command creates an Analog Video Overlay port on an ONT. The AVO Port is the location where the Analog Video Overlay signal on the PON is terminated. An ONT will have an AVO facility if and only if it has at least one RF Video (COAX) output port.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-GOS-ONT
ENT-IG-VDS1	ENT-ONT
ENT-PROF-ONT	ENT-RFVID
ENT-VCG	ENT-VRP
INIT-ONT-UA	INIT-REG-ONT
REPT ALM AVO	REPT ALM ONT
REPT ALM RFVID	REPT ALM VCG
REPT ALM VRP	REPT EVT ONT
REPT RMV AVO	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID

[RTRV-STAT-HPNA](#)
[RTRV-VCG](#)
[RTRV-VRP](#)

[RTRV-STAT-RFR](#)
[RTRV-VDS1](#)
[TST-ONT-MET](#)

Input Format

```
ENT-
AVO:[TID]:<OntPortAid>:[CTAG]:::[[OMI=<OMI>,][DESC=<DESC>]]:[<PST>]
,[<SST>];
```

Input Parameters

OntPortAid Analog Video Overlay Port Access Identifier. The address of the AVO port. (The ONT port number must be equal to 1.) *OntPortAid* is the AID [OntPortAid](#).

OMI The per-channel Optical Modulation Index of the RF-Video content that is being carried in the Analog Video Overlay signal. This parameter is only applied to ONTs that return an OMI value during initialization.

The value is a percentage, and must be between 3.2 and 3.8 . *OMI* is a String. The default value is "3.8".

DESC DESCription. A user-settable description field, up to 31 characters. *DESC* is a String. The default value is """".

PST Primary Service State. This is the service state which the user wants the entity to transition into. *PST* is of type [PrimaryStateChg](#). The default value is "IS".

SST Secondary Service State. The only secondary service state which is provisionable is SB. It only applies when the PST is OOS. *SST* is of type [SecondaryStateChgSB](#).

Input Example

```
ENT-AVO:SYS:N2-4-6-1-18-
1:345:::OMI=3.8,DESC="DESCRIPTION":OOS,SB;
```

Errors

This message generates all of the [Default Errors](#).

ENT-BWC

Name

ENT-BWC: Enter Bandwidth Constraint

Description

Category: Bandwidth Management

Security: Memory Admin - by rate

A Bandwidth Constraint is a generic identifier that can be used to aid in traffic management in the C7. Bandwidth Constraints can be attached to transport links in the C7 network to reserve bandwidth based on a particular application.

Defined by Calix.

Related Messages:

[DLT-BWC](#)

[RTRV-BW-PROV](#)

[ED-BWC](#)

[RTRV-BWC](#)

Input Format

```
ENT-BWC:[TID]:<BwcAid>:[CTAG]:::[ [IG=<IG>,][DESC=<DESC>]];
```

Input Parameters

BwcAid Bandwidth Constraint Access Identifier. Identifier of the Bandwidth Constraint to be operated upon. *BwcAid* is the AID [BwcProvAid](#).

IG Interface Group. This is the interface group that is associated with the bandwidth constraint. This is a restricted parameter and requires the "allow restricted commands (ALW-CMD-RESTR)" option to be specified before it will be accepted by the system. *IG* is the AID [IgAid](#).

DESC DESCription. A user-settable description field, up to 31 characters. *DESC* is a String.

Input Example

```
ENT-BWC:SYS2:1:123:::IG=N1-1-IG1,DESC="TRAF 1";
```

Errors

This message generates all of the [Default Errors](#).

ENT-BWCLINK

Name

ENT-BWCLINK: Enter Link Bandwidth Constraint

Description

Category: Bandwidth Management

Security: Memory Admin - by rate

A Link Bandwidth Constraint is an association of a Bandwidth Constraint to a transport link in the C7 network. It is used to reserve bandwidth on the link for a specified application.

Defined by Calix.

Input Format

```
ENT-
BWCLINK:[TID]:<LinkBwcAid>:[CTAG]:::[ [ RXLMT=<RXLMT>, ] [ RXNTFY=<RXNTFY>, ]
[ TXLMT=<TXLMT>, ] [ TXNTFY=<TXNTFY> ] ];
```

Input Parameters

LinkBwcAid Link Bandwidth Constraint Access Identifier. Identifies the Link Bandwidth Constraint to be operated upon. *LinkBwcAid* is the AID [LinkBwcAid](#).

RXLMT Receive Limit. Bandwidth reserved for the constraint in the ingress or receive direction on the link in kbps. *RXLMT* is a Integer. The default value is "0".

RXNTFY Receive Notification Threshold. This parameter sets the percent threshold at which the RXBWNTFY condition is raised. This condition indicates that bandwidth usage for the constraint in the receive direction exceeds this value. If this is set to OFF, no condition is raised. *RXNTFY* is of type [BwcNtfyThrRange](#). The default value is "95".

TXLMT Transmit Limit. Bandwidth reserved for the constraint in the egress or transmit direction on the link in kbps. *TXLMT* is a Integer. The default value is "0".

TXNTFY Transmit Notification Threshold. This parameter sets the percent threshold at which the TXBWNTFY condition is raised. This condition indicates that bandwidth usage for the constraint in the receive direction exceeds this value. If this is set to OFF, no condition is raised. *TXNTFY* is of type [BwcNtfyThrRange](#). The default value is "95".

Input Example

```
ENT-BWCLINK:SYS2:N3-1-4-12-
BWC1:98:::RXLMT=1,RXNTFY=2,TXLMT=1,TXNTFY=2;
```

Errors

This message generates all of the [Default Errors](#).

ENT-CRS-<STSN>

Name

ENT-CRS-<[STS_N](#)>: Enter Cross Connect (STS1, STS12C, STS3C, STS48C)

Description

Category: Cross Connect

Security: Memory Admin - by rate

This command provides for cross-connecting STSNc entities to other STSNc entities. It also allows for entering the proper attributes for the cross-connections.

Defined in GR-199.

Related Messages:

[DLT-<STS_N>](#)

[DLT-GOS-<STS_N>](#)

[ED-CRS-<STS_N>](#)

[ENT-<STS_N>](#)

[INIT-REG-<STS_N>](#)

[REPT ALM <STS_N>](#)

[REPT RMV <STS_N>](#)

[RLS-PROTNSW-<STS_N>](#)

[RST-<STS_N>](#)

[RTRV-ALM-<STS_N>](#)

[RTRV-CRS-<STS_N>](#)

[RTRV-PM-<STS_N>](#)

[DLT-CRS-<STS_N>](#)

[ED-<STS_N>](#)

[ED-GOS-<STS_N>](#)

[ENT-GOS-<STS_N>](#)

[OPR-PROTNSW-<STS_N>](#)

[REPT EVT <STS_N>](#)

[REPT RST <STS_N>](#)

[RMV-<STS_N>](#)

[RTRV-<STS_N>](#)

[RTRV-COND-<STS_N>](#)

[RTRV-GOS-<STS_N>](#)

Input Format

```
ENT-CRS-<STS\_N>:[TID]:  
<SrcStsAid>,<DstStsAid>:[CTAG]::[<CCT>]:[[PROTN=<PROTN>,][HBH=<HBH>]]  
[PATH=<PATH>;]
```

Input Parameters

SrcStsAid Source (From) Access Identifier. The address of the source (from) endpoint of the cross-connect being created. *SrcStsAid* is the AID [StsCrsAid](#).

DstStsAid Source (From) Access Identifier. The address of the source (from) endpoint of the cross-connect being created. *DstStsAid* is the AID [StsCrsAid](#).

CCT Connection Type. This parameter is used for specifying whether the cross-connect is a one or two way connection. *CCT* is of type [ConnectionType3](#). The default value is "2WAY".

PROTN Cross-Connect Protection. When cross-connect are created the user has the option of making the cross-connect protected or not. This parameter indicates if the cross-connect should be protected with a protection path or not. NOTE: the HBH and PROTN parameters have been deprecated; the PATH parameter should be used instead. *PROTN* is of type [BoolYN](#). The default value is "N".

HBH	Hop-By-Hop. This parameter indicates whether the cross-connect is being entered Hop-By-Hop. If it is, it indicates whether this is part of the working or the protection path. NOTE: the HBH and PROTN parameters have been deprecated; the PATH parameter should be used instead. <i>HBH</i> is of type HopByHop . The default value is "NOTHBH".
PATH	Path on which to create the cross-connect. Note: PROTN and HBH have been deprecated. Specifying PATH is now the preferred way to enter cross-connects. The presence of PATH will also override any values specified in PROTN or HBH. Note: For network-scoped creates (end-to-end), only UNPROT and BOTH apply. <i>PATH</i> is of type Path .

Input Example

```
ENT-CRS-STS12C:SYS3:N3-4-20-4-1,N8-3-20-4-
1:489::1WAY:PROTN=N,HBH=WORK,
PATH=UNPROT;
```

Errors

This message generates all of the [Default Errors](#).

ENT-CRS-DCC

Name

ENT-CRS-DCC: ENT CRS DCC

Description

Category: Management Interface **Security:** System Administration

This command provides for cross-connecting DCC entities to other DCC entities. It also allows for entering the proper attributes for the cross-connections.

Related Messages:

[DLT-CRS-DCC](#)

[RTRV-CRS-DCC](#)

[ED-LINK](#)

[RTRV-LINK](#)

Input Format

```
ENT-CRS-
DCC:[TID]:<CrsDccSrcAid>,<CrsDccDestAid>:[CTAG]:::[ [ PROTN=<PROTN>, ]
[ HBH=<HBH> ] ],PATH=<PATH>,[VIA=<VIA>];
```

Input Parameters

CrsDccSrcAid	Source (From) Access Identifier. The address of the source (from) endpoint of the cross-connect being created. SDCC denotes a section DCC. LDCC denotes a line DCC. LDCC(1-3) denotes one byte in the line DCC overhead. <i>CrsDccSrcAid</i> is the AID DccAid .
CrsDccDestAid	Destination (To) Access Identifier. The address of the destination (to) endpoint of the cross-connect being created. SDCC denotes a section DCC. LDCC denotes a line DCC. LDCC(1-3) denotes one byte in the line DCC overhead. <i>CrsDccDestAid</i> is the AID DccAid .
PROTN	Cross-Connect Protection. When cross-connect are created the user has the option of making the cross-connect protected or not. This parameter indicates if the cross-connect should be protected with a protection path or not. NOTE: the HBH and PROTN parameters have been deprecated; the PATH parameter should be used instead. <i>PROTN</i> is of type BoolYN . The default value is "N".
HBH	Hop-By-Hop. This parameter indicates whether the cross-connect is being entered Hop-By-Hop. If it is, it indicates whether this is part of the working or the protection path. NOTE: the HBH and PROTN parameters have been deprecated; the PATH parameter should be used instead. <i>HBH</i> is of type HopByHop . The default value is "WORK".
PATH	Path on which to create the cross-connect. Note: PROTN and HBH have been deprecated. Specifying PATH is now the preferred way to enter cross-connects. The presence of PATH will also override any values specified in PROTN or HBH. Note: For network-scoped creates (end-to-end), only UNPROT and BOTH apply. <i>PATH</i> is of type Path .
VIA	Channel VIA which cross-connect is set up. VIA must be specified for inter-shelf connections; it must not be specified for intra-shelf connections. <i>VIA</i> is of type DataLink .

Input Example

```
ENT-CRS-DCC:SYS3:N3-4-9-1-LDCC1,N8-3-9-1-
LDCC2:489:::PROTN=N,HBH=WORK,
PATH=UNPROT,VIA=LDCC1;
```

Errors

This message generates all of the [Default Errors](#).

ENT-CRS-OW

Name

ENT-CRS-OW: Enter Cross Connect OW

Description

Category: Management Interface

Security: Memory Admin - by rate

This command provides for cross-connecting OW entities to other OW entities. It also allows for entering the proper attributes for the cross-connections.

This command is not currently supported.

Related Messages:

[ACT-CRS-OW](#)
[ED-IFCONFIG](#)
[RTRV-CRS-OW](#)
[RTRV-SERIAL](#)

[DLT-CRS-OW](#)
[ED-SERIAL](#)
[RTRV-IFCONFIG](#)

Input Format

```
ENT-CRS-
OW:[ TID ]:<OWSrcPortAid>,<OWDstPortAid>:[ CTAG ]:::[ [ PROTN=<PROTN>,
[ HBH=<HBH> ] ],PATH=<PATH> ;
```

Input Parameters

OWSrcPortAid Source (From) Access Identifier. The address of the source (from) endpoint of the cross-connect being created. *OWSrcPortAid* is the AID [OWAid](#).

OWDstPortAid Destination (To) Access Identifier. The address of the destination (to) endpoint of the cross-connect being created. *OWDstPortAid* is the AID [OWAid](#).

PROTN Cross-Connect Protection. When cross-connect are created the user has the option of making the cross-connect protected or not. This parameter indicates if the cross-connect should be protected with a protection path or not. NOTE: the HBH and PROTN parameters have been deprecated; the PATH parameter should be used instead. *PROTN* is of type [BoolYN](#). The default value is "N".

HBH This parameter indicates whether the cross-connect is being entered Hop-By-Hop. If it is, it indicates whether this is part of the working or the protection path. NOTE: the HBH and PROTN parameters have been deprecated; the PATH parameter should be used instead. *HBH* is of type [HopByHop](#). The default value is "WORK".

PATH Path on which to create the cross-connect. Note: PROTN and HBH have been deprecated. Specifying PATH is now the preferred way to enter cross-connects. The presence of PATH will also override any values specified in PROTN or HBH. Note: For network-scoped creates (end-to-end), only UNPROT and BOTH apply. *PATH* is of type [Path](#).

Input Example

```
ENT-CRS-OW:SYS3:N3-4-9-1-LINEOW,N8-3-9-1-
LINEOW:489:::PROTN=N,HBH=WORK,
PATH=UNPROT;
```

Errors

This message generates all of the [Default Errors](#).

ENT-CRS-T0

Name

ENT-CRS-T0: Enter Cross Connect Digital Signal Zero

Description

Category: TDM Services **Security:** Memory Admin - by rate

This command provides for cross-connecting DS0 entities to other DS0 entities. It also allows for entering the proper attributes for the cross-connections.

Defined in GR-199.

Related Messages:

ALW-Swdx-GR303	ALW-Swdx-T1TG
DLT-CRS-T0	DLT-GR303
DLT-GR8	DLT-IG-DS1
DLT-T0	DLT-T1TG
ED-GR303	ED-GR8
ED-T0	ENT-GR303
ENT-GR8	ENT-IG-DS1
ENT-T0	ENT-T1TG
INH-Swdx-GR303	INH-Swdx-T1TG
REPT ALM GR303	REPT ALM T0
REPT ALM T1TG	REPT EVT GR303
REPT EVT T0	REPT EVT T1TG
REPT RMV T0	REPT RST T0
REPT SW GR303	REPT SW T1TG
RMV-T0	RST-T0
RTRV-ALM-GR303	RTRV-ALM-T0
RTRV-ALM-T1TG	RTRV-COND-GR303
RTRV-COND-T0	RTRV-COND-T1TG
RTRV-CRS-T0	RTRV-CSTAT-T0
RTRV-DLSTAT-GR303	RTRV-DLSTAT-T1TG

[RTRV-GR303](#)
[RTRV-IG-DS1](#)
[RTRV-T1TG](#)
[SW-DX-T1TG](#)

[RTRV-GR8](#)
[RTRV-T0](#)
[SW-DX-GR303](#)

Input Format

```
ENT-CRS-
T0:[TID]:<SrcDs0Aid>,<DstDs0Aid>:[CTAG]::[<CCT>]:[[NSG=<NSG>,
[NDS0=<NDS0>,>][NAILUP=<NAILUP>,>][IDT=<IDT>]];
```

Input Parameters

SrcDs0Aid Source (From) Access Identifier. The address of the source (from) endpoint of the cross-connect being created. This endpoint can refer to either a Ds0 facility or a call reference value (circuit) within a GR-303 or GR-8 Interface Group. *SrcDs0Aid* is the AID [CrsT0SrcAid](#).

DstDs0Aid Destination (To) Access Identifier. The address of the destination (to) endpoint of the cross-connect being created. *DstDs0Aid* is the AID [T0Id](#).

CCT Connection Type. This parameter is used for specifying whether the cross-connect is a one or two way connection. *CCT* is of type [ConnectionType2](#). The default value is "2WAY".

NSG Number of Signaling Bits. The NSG parameter specifies the number of signaling bits in the bit-oriented subscriber signaling channel. This parameter can usually be omitted so that it can be set to the value consistent with the network interface. However, when the network interface is a T1 trunk with ESF signaling that is not part of a GR-303 or GR-8 IG, values of 0 (clear channel), 2 (DS0 Yellow and AIS disabled), or 4 (full ESF codes enabled) could be . NSG=2 is appropriate if an SF (D4) T1 trunk is involved. NSG=3 is reserved for the GR-8 signaling scheme which encodes 9 states. *NSG* is of type [Nsg](#). The default value is "Endpoint Dependent".

NDS0 Number of DS0s. THIS PARAMETER IS NOT TO BE USED AS A SHORTHAND FOR MUTIPLE ORDINARY CONNECTIONS. DOING SO WILL RESULT IN INEFFICIENT BANDWIDTH USAGE, CONFUSING RETRIEVAL RESULTS, AND THE INABILITY TO DELETE THE CONNECTIONS SEPARATELY. The NDS0 parameter specifies the number of DS0s that are to be created in the same VC. When a value greater than 1 is specified, consecutive DS0s are connected starting with the source and destination DS0s. This parameter is required to insure that the delay is the same within the set of DS0s. This is needed for services like ISDN transport where the service cannot tolerate differing frame delays among the DS0s from the same port. On retrieval, such a connection is displayed as a single connection but with an NDS0 parameter greater than 1. *NDS0* is a Integer. The default value is "1".

NAILUP NAILUP the connection. Specifying NAILUP=Y with this parameter can be used to specify that a connection is to be maintained, even when no call is being carried. If the connection is carried over a T1 Transport Group (T1TG), bandwidth will be permanently consumed by the connection. Bandwidth is only consumed during an active call when NAILUP=N.

It is by default "Y" when an endpoint of the connection cannot indicate the beginning or end of a call. This is the case with EBS, DDS, and TO endpoints. It is also currently the case with GR-8 Mode I endpoints. It is by default "N" for all other endpoints. A GR-8 Mode II Coin service must use NAILUP=Y.

NAILUP is of type [BoolYN](#). The default value is "Endpoint / T1TG Dependent".

- IDT** When the connection between SrcDs0Aid and DstDs0Aid spans "internal" T1 transport interface groups, the IDT parameter is required. The list is ordered and must specify each IDT IgAid in the order they are to be passed through in the connection from the source to the destination. *IDT* is the AID [IgAid](#) and is listable.

Input Example

```
ENT-CRS-T0:SYS3:N3-4-20-7,N8-2-20-
9:343::2WAY:NSG=4,NDS0=1,NAILUP=N,
IDT=N6-1-IG1&N7-1-IG1;
```

Errors

This message generates all of the [Default Errors](#).

ENT-CRS-T1

Name

ENT-CRS-T1: Enter Cross Connect Digital Signal One

Description

Category: Cross Connect **Security:** Memory Admin - by rate

This command provides for cross-connecting DS1 entities to other DS1 entities. It also allows for entering the proper attributes for the cross-connections.

Defined in GR-199.

Related Messages:

[DLT-AP-T1](#)
[DLT-GOS-T1](#)
[ED-GOS-T1](#)
[ENT-AP-T1](#)
[ENT-T1](#)
[OPR-LPBK-T1](#)
[REPT EVT T1](#)
[REPT RST T1](#)
[RMV-T1](#)
[RTRV-ALM-T1](#)

[DLT-CRS-T1](#)
[DLT-T1](#)
[ED-T1](#)
[ENT-GOS-T1](#)
[INIT-REG-T1](#)
[REPT ALM T1](#)
[REPT RMV T1](#)
[RLS-LPBK-T1](#)
[RST-T1](#)
[RTRV-COND-T1](#)

[RTRV-CRS-T1](#)
[RTRV-PM-T1](#)

[RTRV-GOS-T1](#)
[RTRV-T1](#)

Input Format

```
ENT-CRS-
T1:[TID]:<SrcDs1Aid>,<DstDs1Aid>:[CTAG]::[<CCT>]:[[PROTN=<PROTN>,
[HBH=<HBH>]],PATH=<PATH>,[BWC=<BWC>]];
```

Input Parameters

SrcDs1Aid Source (From) Access Identifier. The address of the source (from) endpoint of the cross-connect being created. This can include a VC portion for hop-by-hop. *SrcDs1Aid* is the AID [T1CrsAid](#).

DstDs1Aid Destination (To) Access Identifier. The address of the destination (to) endpoint of the cross-connect being created. This can include a VC portion for hop-by-hop. *DstDs1Aid* is the AID [T1CrsAid](#).

CCT Connection Type. This parameter is used for specifying whether the cross-connect is a one or two way connection. For T1 cross-connections, "2WAY" is the only valid value. *CCT* is of type [ConnectionType2](#). The default value is "2WAY".

PROTN Cross-Connect Protection. When cross-connect are created the user has the option of making the cross-connect protected or not. This parameter indicates if the cross-connect should be protected with a protection path or not. NOTE: the HBH and PROTN parameters have been deprecated; the PATH parameter should be used instead. *PROTN* is of type [BoolYN](#). The default value is "N".

HBH Hop-By-Hop. This parameter indicates whether the cross-connect is being entered Hop-By-Hop. If it is, it indicates whether this is part of the working or the protection path. NOTE: the HBH and PROTN parameters have been deprecated; the PATH parameter should be used instead. *HBH* is of type [HopByHop](#). The default value is "NOTHBH".

PATH Path on which to create the cross-connect. Note: PROTN and HBH have been deprecated. Specifying PATH is now the preferred way to enter cross-connects. The presence of PATH will also override any values specified in PROTN or HBH. Note: For network-scoped creates (end-to-end), only UNPROT and BOTH apply. *PATH* is of type [Path](#).

BWC Bandwidth Constraint. The Bandwidth Constraint used when creating the cross-connect. *BWC* is the AID [BwcProvAid](#).

Input Example

```
ENT-CRS-T1:SYS3:N3-4-20-7,N8-3-20-
9:489::2WAY:PROTN=N,HBH=WORK,PATH=UNPROT,
BWC=1;
```

Errors

This message generates all of the [Default Errors](#).

ENT-CRS-VC

Name

ENT-CRS-VC: Enter Cross Connect Virtual Circuit

Description

Category: Cross Connect

Security: Memory Admin - by rate

This command provides for cross-connecting VC entities to other VC entities. It also allows for entering the proper attributes for the cross-connections.

The following table shows Traffic Profile Matrix.

	CBR	UBR	GFR	VBRRT	VBRNRT
CDVT *	Integer	Integer	Integer	Integer	Integer
PCR01 **	Non-Zero	Non-Zero	Non-Zero	Non-Zero	Non-Zero
SCR0	N/A	N/A	Integer	Integer	Integer
SCR01	N/A	N/A	Integer	Integer	Integer
MCR ***	N/A	N/A	PCR01	N/A	N/A
MBS	N/A	N/A	PCR01	PCR01 or SCR0	PCR01 or SCR0
MFS	N/A	N/A	Non-Zero	N/A	N/A
CELLTAG	N/A	Y/N	Y/N	Y/N	Y/N
POLICE	Y/N	N/A	Y/N	Y/N	Y/N

* CDVT is calculated as $(1/\text{PCR01}) * 1000000$.

** PCR01 is calculated by taking the rate and dividing by 424.

*** If no value is provided, the default of VP0, VC24 will be set. For a Sonet port, C7 will assume the first STS, which MUST be ATMNNI or the command will be rejected.

Defined in GR-199.

Related Messages:

[ACT-PROTN-VC](#)
[DLT-CRS-VC](#)
[DLT-PP](#)
[ED-CRS-VC](#)

[ACT-PROTN-VP](#)
[DLT-CRS-VP](#)
[DLT-PROF-TRF](#)
[ED-CRS-VP](#)

ED-PROF-TRF	ENT-CRS-VP
ENT-PP	ENT-PROF-TRF
INIT-CSTAT-VC	INIT-CSTAT-VP
INJ-LPBK-VC	INJ-LPBK-VP
MV-CRS-VC	MV-CRS-VP
OPR-CC-VC	OPR-CC-VP
REPT ALM PP	REPT EVT PP
REPT EVT VC	REPT EVT VP
REPT RMV PP	REPT RST PP
RLS-CC-VC	RLS-CC-VP
RMV-PP	RST-PP
RTRV-ALM-PP	RTRV-COND-PP
RTRV-CRS-VC	RTRV-CRS-VP
RTRV-CSTAT-VC	RTRV-CSTAT-VP
RTRV-PP	RTRV-PROF-TRF
RTRV-VTI	

Input Format

```
ENT-CRS-VC : [ TID ] : <SrcVcAid> , <DstVcAid> : [ CTAG ] :: [ <CCT> ] : [ [ PROTN=<PROTN> , ]
[ HBH=<HBH> , ] [ PC=<PC> ] ] , TRFPROF=<TRFPROF> , [ BCKPROF=<BCKPROF> ]
, PATH=<PATH> , [ [ BWC=<BWC> , ] [ SRCPPL=<SRCPPL> , ] [ DSTPPL=<DSTPPL> , ] [ INCL=<INCL> ]
] ;
```

Input Parameters

SrcVcAid	Source (From) Access Identifier. The address of the source (from) endpoint of the cross-connect being created. <i>SrcVcAid</i> is the AID VcId5 .
DstVcAid	Destination (To) Access Identifier. The address of the destination (to) endpoint of the cross-connect being created. <i>DstVcAid</i> is the AID VcId8 .
CCT	Connection Type. This parameter is used for specifying whether the cross-connect is a one or two way connection. <i>CCT</i> is of type ConnectionType . The default value is "2WAY".
PROTN	Cross-Connect Protection. When cross-connect are created the user has the option of making the cross-connect protected or not. This parameter indicates if the cross-connect should be protected with a protection path or not. NOTE: the HBH and PROTN parameters have been deprecated; the PATH parameter should be used instead. <i>PROTN</i> is of type BoolYN . The default value is "N".
HBH	Hop-By-Hop. This parameter indicates whether the cross-connect is being entered Hop-By-Hop. If it is, it indicates whether this is part of the working or the protection path. NOTE: the HBH and PROTN parameters have been deprecated; the PATH parameter should be used instead. <i>HBH</i> is of type HopByHop . The default value is "NOTHBH".
PC	Protection Class - Indicates whether the cross connect is uses Bridged or UnBridged protection. <i>PC</i> is of type ProtClass .
TRFPROF	Traffic Profile. This parameter identifies which Traffic Profile which will be applied to the cross-connect. The Traffic Profile specifies the bandwidth parameters. <i>TRFPROF</i> is the

AID [TrfId](#). The default value is "UBR".

BCKPROF	Backward Traffic Profile. This parameter identifies which Traffic Profile which applies to the backward direction of the cross-connect. If no BCKPROF is specified, then the service on the cross-connect is symmetrical and the TRFPROF is applied to both directions. <i>BCKPROF</i> is the AID TrfId . The default value is "UBR".
PATH	Path on which to create the cross-connect. Note: PROTN and HBH have been deprecated. Specifying PATH is now the preferred way to enter cross-connects. The presence of PATH will also override any values specified in PROTN or HBH. Note: For network-scoped creates (end-to-end), only UNPROT and BOTH apply. <i>PATH</i> is of type Path .
BWC	Bandwidth Constraint. The Bandwidth Constraint used when creating the cross-connect. <i>BWC</i> is the AID BwcAid . The default value is "None".
SRCPPL	Source Path Protection Label. This parameter indicates the PPL association for the cross-connect source end-point, if applicable. This parameter should only be used by expert users and requires the "allow restricted commands (ALW-CMD-RESTR)" option to be specified before it will be accepted by the system. <i>SRCPPL</i> is the AID PplId1 .
DSTPPL	Destination Path Protection Label. This parameter indicates the PPL association for the cross-connect destination end-point, if applicable. This parameter should only be used by expert users and requires the "allow restricted commands (ALW-CMD-RESTR)" option to be specified before it will be accepted by the system. <i>DSTPPL</i> is the AID PplId1 .
INCL	INCLusive. This parameter provides a way for the user to override the check that prevents creating using ENT-CRS-VC to create a Video VC, which would normally be created using ENT-CRS-VIDVC. This should only be needed in the case of entering a new shelf in a Video VC that is normally created A to Z, such as the IP VC. <i>INCL</i> is of type BoolYN . The default value is "N".

Input Example

```
ENT-CRS-VC:SYS2:N4-5-5-1-VP49-VC36,N8-3-9-2-1-VP96-
VC36:76::1WAY:PROTN=N,
HBH=WORK, PC=BR, TRFPROF=3, BCKPROF=6, PATH=UNPROT, BWC=1, SRCPPL=N4-5-
5-1-1234,
DSTPPL=N8-3-9-2-1235, INCL=N;
```

Errors

This message generates all of the [Default Errors](#).

ENT-CRS-VIDVC

Name

ENT-CRS-VIDVC: Enter Cross Connect Video Virtual Circuit

Description

Category: Cross Connect

Security: Memory Admin - by rate

This command provides for cross-connecting VC entities to other VC entities. It also allows for entering the proper attributes for the cross-connections.

Input Format

```
ENT-CRS-VIDVC:[TID]:<SrcVcAid>,<DstVcAid>:[CTAG]:::  
IRCAID=<IrcAid>,TRFPROF=<TRFPROF>,[BCKPROF=<BCKPROF>]  
,PATH=<PATH>,[ [PC=<PC>],[BWC=<BWC>],[ARP=<ARP>],[SRCPPL=<SRCPPL>],[  
DSTPPL=<DSTPPL>]];
```

Input Parameters

SrcVcAid	Source (From) Access Identifier. The address of the source (from) endpoint of the cross-connect being created. <i>SrcVcAid</i> is the AID VidvcId .
DstVcAid	Destination (To) Access Identifier. The address of the destination (to) endpoint of the cross-connect being created. <i>DstVcAid</i> is the AID VidvcId .
IrcAid	The slot address of the IRC. <i>IrcAid</i> is the AID SlotLuAid .
TRFPROF	Traffic Profile. This parameter identifies which Traffic Profile which will be applied to the cross-connect. The Traffic Profile specifies the bandwidth parameters. The Traffic Profile must have its APPID set to one of the video application ids. <i>TRFPROF</i> is the AID TrfId .
BCKPROF	Backward Traffic Profile. This parameter identifies which Traffic Profile which applies to the backward direction of the cross-connect. If no BCKPROF is specified, then the service on the cross-connect is symmetrical and the TRFPROF is applied to both directions. The Backward Traffic Profile must have its APPID set to one of the video application ids. <i>BCKPROF</i> is the AID TrfId .
PATH	Path on which to create the cross-connect. Note: For A2Z, only UNPROT and BOTH apply. For HBH, UNPROT, WKG and PROT apply. <i>PATH</i> is of type Path .
PC	Protection Class - Indicates whether the cross connect is using Bridged or UnBridged protection. If PC value is not specified, "UNBR" is applied for all video applications that don't use class of service as CBR or UBR; otherwise "BR" protection is applied. <i>PC</i> is of type ProtClassAny .
BWC	Bandwidth Constraint. The Bandwidth Constraint used when creating the cross-connect. <i>BWC</i> is the AID BwcAid . The default value is "None".
ARP	ARP Enabled. This option is only valid on VCs with a traffic profile containing the IP application ID. If set to Y, the IRC will answer ARP requests on this VC, thus creating dynamic ARP entries. <i>ARP</i> is of type BoolYN . The default value is "N".
SRCPPL	Source Path Protection Label. This parameter indicates the PPL association for the cross-connect source end-point, if applicable. This parameter should only be used by expert users and requires the "allow restricted commands (ALW-CMD-RESTR)" option to be specified before it will be accepted by the system. <i>SRCPPL</i> is the AID PplId1 .
DSTPPL	Destination Path Protection Label. This parameter indicates the PPL association for the cross-connect destination end-point, if applicable. This parameter should only be used by

expert users and requires the "allow restricted commands (ALW-CMD-RESTR)" option to be specified before it will be accepted by the system. *DSTPPL* is the AID [PplId1](#).

Input Example

```
ENT-CRS-VIDVC:SYS1:N1-1-2-3-1-VP1-VC2,N1-1-3-3-1-VP1-
VC2:CTAG:::IRCAID=N1-1-5,
    TRFPROF=1,BCKPROF=2,PATH=UNPROT,PC=BR,BWC=1,ARP=Y,SRCPPL=N1-1-
2-3-1234,
    DSTPPL=N1-1-3-3-1235;
```

Errors

This message generates all of the [Default Errors](#).

ENT-CRS-VP

Name

ENT-CRS-VP: Enter Cross Connect Virtual Path

Description

Category: Cross Connect

Security: Memory Admin - by rate

This command provides for cross connecting VP entities to different VP entities. It also allows for entering the proper attributes for the cross connections.

Defined in GR-199.

Related Messages:

[ACT-PROTN-VC](#)

[DLT-CRS-VC](#)

[DLT-PP](#)

[ED-CRS-VC](#)

[ED-PROF-TRF](#)

[ENT-PP](#)

[INIT-CSTAT-VC](#)

[INJ-LPBK-VC](#)

[MV-CRS-VC](#)

[OPR-CC-VC](#)

[REPT ALM PP](#)

[REPT EVT VC](#)

[ACT-PROTN-VP](#)

[DLT-CRS-VP](#)

[DLT-PROF-TRF](#)

[ED-CRS-VP](#)

[ENT-CRS-VC](#)

[ENT-PROF-TRF](#)

[INIT-CSTAT-VP](#)

[INJ-LPBK-VP](#)

[MV-CRS-VP](#)

[OPR-CC-VP](#)

[REPT EVT PP](#)

[REPT EVT VP](#)

[REPT RMV PP](#)
[RLS-CC-VC](#)
[RMV-PP](#)
[RTRV-ALM-PP](#)
[RTRV-CRS-VC](#)
[RTRV-CSTAT-VC](#)
[RTRV-PP](#)
[RTRV-VTI](#)

[REPT RST PP](#)
[RLS-CC-VP](#)
[RST-PP](#)
[RTRV-COND-PP](#)
[RTRV-CRS-VP](#)
[RTRV-CSTAT-VP](#)
[RTRV-PROF-TRF](#)

Input Format

```
ENT-CRS-
VP:[TID]:<SrcVpAid>,<DstVpAid>:[CTAG]::[<CCT>]:[[PROTN=<PROTN>,]
[Hbh=<HBH>],[PC=<PC>]],TRFPROF=<TRFPROF>,[BCKPROF=<BCKPROF>]
,PATH=<PATH>,[ [BWC=<BWC>],[SRCPPL=<SRCPPL>],[DSTPPL=<DSTPPL>]];
```

Input Parameters

- SrcVpAid** Source (From) Access Identifier. The address of the source (from) endpoint of the cross-connect being created. *SrcVpAid* is the AID [VpAid](#).
- DstVpAid** Destination (To) Access Identifier. The address of the destination (to) endpoint of the cross-connect being created. *DstVpAid* is the AID [VpAid](#).
- CCT** Connection Type, used for specifying one or two way connections; a null value defaults to 2WAY. *CCT* is of type [ConnectionType](#). The default value is "2WAY".
- PROTN** Cross-Connect Protection. When cross-connect are created the user has the option of making the cross-connect protected or not. This parameter indicates if the cross-connect should be protected with a protection path or not. NOTE: the HBH and PROTN parameters have been deprecated; the PATH parameter should be used instead. *PROTN* is of type [BoolYN](#). The default value is "N".
- HBH** Hop-By-Hop. This parameter indicates whether the cross-connect is being entered Hop-By-Hop. If it is, it indicates whether this is part of the working or the protection path. NOTE: the HBH and PROTN parameters have been deprecated; the PATH parameter should be used instead. *HBH* is of type [HopByHop](#). The default value is "NOTHBH".
- PC** Protection Class - Indicates whether the cross connect is uses Bridged or UnBridged protection. *PC* is of type [ProtClass](#).
- TRFPROF** Traffic Profile. This parameter identifies which Traffic Profile which will be applied to the cross-connect. The Traffic Profile specifies the bandwidth parameters. *TRFPROF* is the AID [TrfId](#). The default value is "UBR".
- BCKPROF** Backward Traffic Profile. This parameter identifies which Traffic Profile which applies to the backward direction of the cross-connect. If no BCKPROF is specified, then the service on the cross-connect is symmetrical and the TRFPROF is applied to both directions. *BCKPROF* is the AID [TrfId](#). The default value is "UBR".
- PATH** Path on which to create the cross-connect. Note: PROTN and HBH have been deprecated. Specifying PATH is now the preferred way to enter cross-connects. The presence of PATH will also override any values specified in PROTN or HBH. Note: For network-scoped creates (end-to-end), only UNPROT and BOTH apply. *PATH* is of type [Path](#).

- BWC** Bandwidth Constraint. The Bandwidth Constraint used when creating the cross-connect. *BWC* is the AID [BwcAid](#). The default value is "None".
- SRCPPL** Source Path Protection Label. This parameter indicates the PPL association for the cross-connect source end-point, if applicable. This parameter should only be used by expert users and requires the "allow restricted commands (ALW-CMD-RESTR)" option to be specified before it will be accepted by the system. *SRCPPL* is the AID [PplId1](#).
- DSTPPL** Destination Path Protection Label. This parameter indicates the PPL association for the cross-connect destination end-point, if applicable. This parameter should only be used by expert users and requires the "allow restricted commands (ALW-CMD-RESTR)" option to be specified before it will be accepted by the system. *DSTPPL* is the AID [PplId1](#).

Input Example

```
ENT-CRS-VP:SYS2:N4-5-5-1-VP49,N8-3-1-1-  
VP96:76::1WAY:PROTN=N,HBH=WORK,PC=BR,  
TRFPROF=20,BCKPROF=6,PATH=UNPROT,BWC=1,SRCPPL=N4-5-5-1-1234,  
DSTPPL=N8-3-9-2-1235;
```

Errors

This message generates all of the [Default Errors](#).

ENT-CVIDREG

Name

ENT-CVIDREG: Enter CVIDREG

Description

Category: IP **Security:** Memory Admin - by rate

Not supported in release 6.0.

Related Messages:

[DLT-CVIDREG](#)
[DLT-MACHOST](#)
[DLT-VBPORT](#)
[DLT-VR](#)
[ED-CVIDREG](#)
[ED-MACHOST](#)
[ED-VBPORT](#)

[DLT-IGMP-JOIN](#)
[DLT-VB](#)
[DLT-VLAN-VBPORT](#)
[DLT-VRPORT](#)
[ED-IGMP](#)
[ED-VB](#)
[ED-VLAN-VBPORT](#)

ED-VR	ENT-IGMP-JOIN
ENT-MACHOST	ENT-VB
ENT-VBPORT	ENT-VLAN-VBPORT
ENT-VR	ENT-VRPORT
REPT ALM VB	REPT ALM VR
REPT EVT VB	REPT EVT VR
RTRV-ALM-VB	RTRV-ALM-VR
RTRV-CVIDREG	RTRV-IGMP
RTRV-IGMP-JOIN	RTRV-MACHOST
RTRV-VB	RTRV-VBPORT
RTRV-VLAN-VBPORT	RTRV-VR
RTRV-VRPORT	

Input Format

```
ENT-
CVIDREG: [ TID ]:<CVidRegAid>:[ CTAG ]:::[ [ SVID=<SVID> , ][ PRIO=<PRIO> ] ]
,RCVID=<RCVID>;
```

Input Parameters

CVidRegAid *CVidRegAid* is the AID [CVidRegAid](#).

SVID *SVID* is a Integer. The default value is "0".

PRIO *PRIO* is of type [PrioBits](#). The default value is "0".

RCVID *RCVID* is of type [RCVid](#).

Input Example

```
ENT-CVIDREG:SYS:N2-1-VB3-5-4:123:::SVID=9,PRIO=3,RCVID=6;
```

Errors

This message generates all of the [Default Errors](#).

ENT-DHCP-OUI

Name

ENT-DHCP-OUI: Enter DHCP OUI

Description

Category: IP **Security:** Memory Admin - by rate

This command provisions information that allows the DHCP server to forward discover requests to the appropriate relay server based on the OUI in the discover message. The relay server is identified by the gateway IP address. The type of equipment identified by the OUI is also provisioned by this command.

The OUI 00-00-00 has the following special meaning. If the OUI in the discover message is not associated with a relay server, then use the relay server associated with OUI 00-00-00 if this association exists. Otherwise, the discover request is not forwarded.

Related Messages:

[DLT-DHCP-OUI](#)

[DLT-IP-ROUTE](#)

[DLT-SUBIF-BINDING](#)

[DLT-VID-IRCLOC](#)

[DLT-VID-SVC](#)

[DLT-VODDSTLU](#)

[DLT-VODSRCLU](#)

[ED-ARP](#)

[ED-VID-CHAN](#)

[ED-VID-SVC](#)

[ENT-IP-IF](#)

[ENT-IPIF-PORT](#)

[ENT-VID-CHAN](#)

[ENT-VID-SUB](#)

[ENT-VODDSTLU](#)

[RTRV-ARP](#)

[RTRV-DHCP-OUI](#)

[RTRV-IP-ROUTE](#)

[RTRV-SUBIF-BINDING](#)

[RTRV-VID-IRCLOC](#)

[RTRV-VID-SVC](#)

[RTRV-VODDSTLU](#)

[RTRV-VODSRCLU](#)

[DLT-IP-IF](#)

[DLT-IPIF-PORT](#)

[DLT-VID-CHAN](#)

[DLT-VID-SUB](#)

[DLT-VODCLNT](#)

[DLT-VODFLOW](#)

[DLT-VODSVR](#)

[ED-IPIF-PORT](#)

[ED-VID-SUB](#)

[ED-VODDSTLU](#)

[ENT-IP-ROUTE](#)

[ENT-SUBIF-BINDING](#)

[ENT-VID-IRCLOC](#)

[ENT-VID-SVC](#)

[REPT EVT VODFLOW](#)

[RTRV-DHCP-LEASE](#)

[RTRV-IP-IF](#)

[RTRV-IPIF-PORT](#)

[RTRV-VID-CHAN](#)

[RTRV-VID-SUB](#)

[RTRV-VODCLNT](#)

[RTRV-VODFLOW](#)

[RTRV-VODSVR](#)

Input Format

```
ENT-DHCP-
OUI:[TID]:<OUIAID>:[CTAG]:::RTRAID=<RTRAID>, [ [ GADDR=<GADDR>, ]
[ OUITYPE=<OUITYPE> ] ];
```

Input Parameters

OUIAID Organizationally Unique Identifier. The OUI is first 3 octets of the MAC address and

identifies the vendor *OUIAID* is the AID [OuiAid](#).

RTRaid Router AID - target slot address of the command (currently, the slot address is the IRC)
RTRaid is the AID [SlotLuAid](#).

GADDR Gateway IP address. The discover message is relayed to this server. Note: This parameter is deprecated beginning with C7 release 5.0, but maintained for CMS TL1 only to support backward compatibility. *GADDR* is the AID [IpAid](#).

OUIType OUI Equipment type. The default value is "STB" except if the OUI is 00-00-00 in which case the default is "OTHER". *OUIType* is of type [IpHostEqptType](#).

Input Example

```
ENT-DHCP-OUI:SYS1:01-02-03:CTAG:::RTRaid=N1-2-
3,GADDR=1.2.3.4,OUIType=STB;
```

Errors

This message generates all of the [Default Errors](#).

ENT-DHCPSVR

Name

ENT-DHCPSVR: Enter DHCPSVR

Description

Category: IP **Security:** Memory Admin - by rate

Enter DHCP Server - allows the user to specify multiple DHCP servers. This command replaces ED-DHCP for Ge-2p card.

Input Format

```
ENT-
DHCPsvr:[TID]:<IP>:[CTAG]:::[RTRaid=<RTRaid>,][OPTION82=<OPTION82>]];
```

Input Parameters

IP IP Address of the DHCP server. *IP* is the AID [IpAid](#).

RTRaid *RTRaid* is the AID [RouterAid](#).

OPTION82 DHCP Option 82 - This feature adds a unique identifier in the relay agent information

option. *OPTION82* is of type [Option82](#).

Input Example

```
ENT-DHCPSVR:SYS1:192.168.1.2:CTAG:::RTRaid=N1-2-
VR3,OPTION82=STND;
```

Errors

This message generates all of the [Default Errors](#).

ENT-EC1

Name

ENT-EC1: Enter EC1

Description

Category: EC1 Facility **Security:** Memory Admin - by rate

This command creates an EC1 within the system.

Related Messages:

[DLT-EC1](#)
[ED-EC1](#)
[ENT-GOS-EC1](#)
[OPR-LPBK-EC1](#)
[REPT EVT EC1](#)
[REPT RST EC1](#)
[RMV-EC1](#)
[RTRV-ALM-EC1](#)
[RTRV-EC1](#)
[RTRV-PM-EC1](#)

[DLT-GOS-EC1](#)
[ED-GOS-EC1](#)
[INIT-REG-EC1](#)
[REPT ALM EC1](#)
[REPT RMV EC1](#)
[RLS-LPBK-EC1](#)
[RST-EC1](#)
[RTRV-COND-EC1](#)
[RTRV-GOS-EC1](#)

Input Format

```
ENT-EC1:[TID]:<Ec1Aid>:[CTAG]:::[[FEPM=<FEPM>,][ALMPROF=<ALMPROF>,
[SDBER=<SDBER>,[SFBER=<SFBER>,[GOS=<GOS>,[LBO=<LBO>,[DESC=<DESC>]]]:
[<PST>],[<SST>];
```

Input Parameters

Ec1Aid	Access Identifier. The address of the EC1 port being created. <i>Ec1Aid</i> is the AID TwelvePortLuAid .
FEPM	Far End Performance Monitoring. When this parameter is set to "N", the Far End Performance Monitoring data is not collected. When retrieving Far End PM, the Monitored Values (MONVAL) field will contain '0' and the Validity (VLDTY) field will contain 'INVLD'. When this parameter is set to "Y", data collection for Far End Performance Monitoring is enabled. The default value is "N". <i>FEPM</i> is of type BoolYN . The default value is "N".
ALMPROF	Alarm Profile. The set of alarm Notification codes to be associated with this entity. <i>ALMPROF</i> is the AID AlmProfileAid . The default value is "AISCR".
SDBER	Signal Degraded Bit Error Rate. The threshold value above which the Line's bit error rate constitutes a Degraded Signal. <i>SDBER</i> is of type BitErrorRateSD . The default value is "5".
SFBER	Signal Failed Bit Error Rate. The threshold value above which the Line's bit error rate constitutes a Failed Signal. Only values of 3 and 4 are valid for EC1. <i>SFBER</i> is of type BitErrorRateSF . The default value is "3".
GOS	Grade of service. This identifies the EC1 grade of service for performance monitoring (PM) which is applied to the EC1 port. <i>GOS</i> is the AID GosAid . The default value is "DEFLT".
LBO	Line Build Out. <i>LBO</i> is a Integer. The default value is "100".
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String.
PST	Primary Service State. This is the service state which the user wants the entity to transition into. <i>PST</i> is of type PrimaryStateChg . The default value is "IS".
SST	Secondary Service State. The only secondary service state which is provisionable is SB. It only applies when the PST is OOS. <i>SST</i> is of type SecondaryStateChgSB .

Input Example

```
ENT-EC1:SYS1:N3-3-3-
3:435:::FEPM=Y,ALMPROF=AISCR,SDBER=6,SFBER=4,GOS=3,LBO=5,
DESC="DESCRIPTION":OOS,SB;
```

Errors

This message generates all of the [Default Errors](#).

ENT-EQPT

Name

ENT-EQPT: Enter Equipment

Description

Category: Equipment **Security:** Memory Admin - full

This allows a piece of equipment to be provisioned for the first time. This command defines the type of card which is allowed in the slot and the attributes which define the behavior of card, such as the equipment protection scheme.

If the type of equipment being provisioned does not match the actual equipage, then an MEA will be raised.

Defined in GR-199.

Related Messages:

[ALW-SWDX-EQPT](#)
[ALW-SWTOWKG-EQPT](#)
[ED-EQPT](#)
[INH-SWTOPROTN-EQPT](#)
[REPT ALM EQPT](#)
[REPT RMV EQPT](#)
[RMV-EQPT](#)
[RTRV-ALM-EQPT](#)
[RTRV-EQPT](#)
[SW-TOPROTN-EQPT](#)

[ALW-SWTOPROTN-EQPT](#)
[DLT-EQPT](#)
[INH-SWDX-EQPT](#)
[INH-SWTOWKG-EQPT](#)
[REPT EVT EQPT](#)
[REPT RST EQPT](#)
[RST-EQPT](#)
[RTRV-COND-EQPT](#)
[SW-DX-EQPT](#)
[SW-TOWKG-EQPT](#)

Input Format

```
ENT-
EQPT:[TID]:<EqptAid>:[CTAG]::<TYPE>:[ [ PROTN=<PROTN>, ] [ RVRTV=<RVRTV>, ]
[ RNPRTY=<RNPRTY>, ] [ PWR=<PWR>, ] [ LINERATE=<LINERATE>, ]
[ IMAIDLECELL=<IMAIDLECELL>, ] [ UBRBWRES=<UBRBWRES> ] ]:[ <PST> ];
```

Input Parameters

EqptAid	Equipment Access Identifier. The address (location) for the Equipment entity being provisioned. <i>EqptAid</i> is the AID EquipmentId .
TYPE	Equipment Type. This parameter identifies the type of equipment which can be plugged into the slot. The provisioned equipment type must be the exact equipment card type. Examples of card types are RPOTS-24, OC12-4-IR, etc. <i>TYPE</i> is of type EqptTypeProv .
PROTN	Protection Unit Access Identifier. This is the address of the equipment which is to provide protection for this card. If this equipment is to provide protection for other cards in the system, then this will be its own address. The equipment providing protection must be provisioned before the equipments that use it as their protection. <i>PROTN</i> is the AID EquipmentId6 . The default value is "NONE".
RVRTV	Revertive. This parameter indicates if the protection requested is to be revertive or

non-revertive. The parameter value can be either Y = revertive or N = non-revertive. This parameter is only applicable in a 1:1 protection scheme. In a 1:n protection scheme, the equipment protection is always revertive. RAP cards are always non-revertive and cannot be provisioned to be revertive. This parameter is only applicable if this is the protection card unit. It is not provided when this is the protected card. *RVRTV* is of type [BoolYN](#). The default value is "N".

RNPRTY

Redundancy Priority. This parameter only applies in a 1:n protection scheme. It gives the priority of this working equipment versus other working equipment protected by the same protection card. Equipment given a smaller RNPRTY number will pre-empt any protection already in effect for equipment given a larger RNPRTY number. When equipment fails with the same RNPRTY number as the already protected equipment, no protection switch will occur. *RNPRTY* is of type [ProtPriority](#). The default value is "5".

PWR

Power Category. The system shall minimize the power dissipation during power failure (battery backup). Following power failure the system needs to enter a power-save mode. Upon entering this mode, the C7 turns off the DSL cards. The period in which the system enters power-save mode after a power failure shall be a user provisioningable interval. To accomplish this task three power categories are created: Category 1 that do not get shut down during battery back up (AC power failure). Category 2 cards that get shut down after 2 hours. Category 3 card that get shut down after the period of time specified by PWRCAT3 (up to a maximum of 30 minutes - see ED-SHELF). The system defaults are that POTS, DS1, DS3, and optics are category 1 and ADSL are category 3. Presently, no Category 2 cards are supported. *PWR* is of type [PowerCategory](#).

LINERATE

Line Rate. This parameter only applies when provisioning RAP-OC cards. This is the configurable line speed of the equipment. When decreasing the linerate, there can be no STS provisioned outside the acceptable range of the new rate. As well, the current packet bandwidth used by the port must not exceed the new maximum bandwidth. NOTE: The card will reboot if this parameter is changed when it has provisioned services! *LINERATE* is of type [LineRate](#). The default value is "OC48".

IMAIDLECELL

This indicates how IMA idle cells will be transmitted by all IMA groups on this card. *IMAIDLECELL* is of type [ImaIdleCellType](#). The default value is "FILLERV1.0".

UBRBWRES

UBR BandWidth REServed. Amount of backplane bandwidth reserved for UBR bandwidth by user in kbps. This parameter takes value of zero and values greater than or equal to 128 kbps. This is a restricted parameter and requires the "allow restricted commands (ALW-CMD-RESTR)" option to be specified before it will be accepted by the system. *UBRBWRES* is a Integer. The default value is "0".

PST

Primary Service State. This is the service state which the user wants the equipment to transition into after provisioning. If the user enters IS (in service) and equipment is not capable of going into service, then the service will become OOS-AU,AINS. The secondary service state of AINS indicates that the equipment will automatically transition to IS when it is capable doing so. *PST* is of type [PrimaryStateChg](#). The default value is "IS".

Input Example

```
ENT-EQPT:SYSTEM3:N28-1-9:385::DS1A-12:PROTN=N28-1-
10,RVRTV=N,RNPRTY=3,PWR=1,
LINERATE=OC48,IMAIDLECELL=IDLE,UBRBWRES=200:IS;
```

Errors

This message generates all of the [Default Errors](#).

ENT-ETH

Name

ENT-ETH: Enter Ethernet Port

Description

Category: Ethernet **Security:** Memory Admin - by rate

Creates an external ethernet port with the provided parameters.

Related Messages:

[DLT-AGG](#)
[DLT-AGG-PORT](#)
[DLT-ETH-ACL](#)
[DLT-LSWITCH](#)
[DLT-PROF-ETH](#)
[DLT-VLAN-PORT](#)
[ED-ETH](#)
[ED-VLAN](#)
[ED-VLAN-VBPORT](#)
[ENT-AGG-ACL](#)
[ENT-ETH-ACL](#)
[ENT-LSWITCH](#)
[ENT-PROF-ETH](#)
[ENT-VLAN-PORT](#)
[INIT-LSWITCH](#)
[REPT ALM ETH](#)
[REPT RMV ETH](#)
[RMV-ETH](#)
[RTRV-AGG](#)
[RTRV-AGG-PORT](#)
[RTRV-COND-ETH](#)
[RTRV-ETH-ACL](#)
[RTRV-LSWITCH](#)

[DLT-AGG-ACL](#)
[DLT-ETH](#)
[DLT-GOS-ETH](#)
[DLT-LSWITCH-PORT](#)
[DLT-VLAN](#)
[DLT-VLAN-VBPORT](#)
[ED-GOS-ETH](#)
[ED-VLAN-PORT](#)
[ENT-AGG](#)
[ENT-AGG-PORT](#)
[ENT-GOS-ETH](#)
[ENT-LSWITCH-PORT](#)
[ENT-VLAN](#)
[ENT-VLAN-VBPORT](#)
[INIT-STAT-ETH](#)
[REPT EVT ETH](#)
[REPT RST ETH](#)
[RST-ETH](#)
[RTRV-AGG-ACL](#)
[RTRV-ALM-ETH](#)
[RTRV-ETH](#)
[RTRV-GOS-ETH](#)
[RTRV-LSWITCH-PORT](#)

[RTRV-PM-ETH](#)
[RTRV-STAT-ETH](#)
[RTRV-VLAN-PORT](#)

[RTRV-PROF-ETH](#)
[RTRV-VLAN](#)
[RTRV-VLAN-VBPORT](#)

Input Format

```
ENT-ETH:[TID]:<EthPortAid>:[CTAG]:::[ [SPD=<SPD>,][DPLX=<DPLX>,]
[TAGGED=<TAGGED>,[MTU=<MTU>],[POLICE=<POLICE>],[LSREN=<LSREN>,
[VIDTXMODE=<VIDTXMODE>,[ENONBAT=<EONBAT>,[GOS=<GOS>,[DESC=<DESC>]]:
[<PST>],[<SST>];
```

Input Parameters

EthPortAid	Ethernet Access Identifier. <i>EthPortAid</i> is the AID EthId .
SPD	Speed. The default value is 1000 for GE-12S equipment, and AUTO for FE-12S equipment. <i>SPD</i> is of type Speed .
DPLX	Duplex. <i>DPLX</i> is of type Duplex . The default value is "AUTO".
TAGGED	Tagged. <i>TAGGED</i> is of type BoolYN . The default value is "N".
MTU	Max Transmission Unit. Varies by equipment type. GE-2P: Fixed at 1536. ONT : must be within [1518,1532], default 1532. GE-4S and FE-12S: must be within [1518, 9022], default 1522. <i>MTU</i> is of type Mtu . The default value is "1522".
POLICE	Policing. <i>POLICE</i> is of type BoolYN . The default value is "N".
LSREN	LaSeR ENable - Laser On/Off. Applies to GE ports only. <i>LSREN</i> is of type BoolYN . The default value is "N".
VIDTXMODE	For ONT ports, allows conversion of multicast video streams to unicast streams to the specific Set Top Boxes that have joined the associated stream. <i>VIDTXMODE</i> is of type OntEthVidTxMode . The default value is "MCAST".
EONBAT	For ONT ports, this parameter specifies the behavior the port when the ONT is running on battery backup, and overrides the default (ONTETHONBAT) specified by ED-SYS. <i>This feature is enabled in C7 release 5.2</i> <i>EONBAT</i> is of type OntPortPwrOpt . The default value is "USEDEF".
GOS	<i>GOS</i> is the AID GosAid . The default value is "OFF".
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String. The default value is "****".
PST	Primary Service State. This is the service state which the user wants the entity to transition into. <i>PST</i> is of type PrimaryStateChg . The default value is "IS".
SST	Secondary Service State. The only secondary service state which is provisionable is SB. It only applies when the PST is OOS. <i>SST</i> is of type SecondaryStateChgSB .

Input Example

```
ENT-ETH:SYS1:N3-4-1-
1:322:::SPD=AUTO,DPLX=AUTO,TAGGED=N,MTU=1522,POLICE=Y,
LSREN=Y,VIDTXMODE=MCAST,ENONBAT=USEDEF,GOS=3,DESC="DESCRIPTION":OOS,SB;
```

Errors

This message generates all of the [Default Errors](#).

ENT-ETH-ACL

Name

ENT-ETH-ACL: Enter ETH ACL

Description

Category: Ethernet **Security:** Memory Admin - by rate

Creates an element of the Address Control List on the external port.

An Address Control List consists of up to 8 Src address/mask pairs. Filtering on this port is always inclusive.

This command is not currently supported.

Related Messages:

[DLT-AGG](#)

[DLT-AGG-PORT](#)

[DLT-ETH-ACL](#)

[DLT-LSWITCH](#)

[DLT-PROF-ETH](#)

[DLT-VLAN-PORT](#)

[ED-ETH](#)

[ED-VLAN](#)

[ED-VLAN-VBPORT](#)

[ENT-AGG-ACL](#)

[ENT-ETH](#)

[ENT-LSWITCH](#)

[ENT-PROF-ETH](#)

[ENT-VLAN-PORT](#)

[INIT-LSWITCH](#)

[REPT ALM ETH](#)

[REPT RMV ETH](#)

[RMV-ETH](#)

[DLT-AGG-ACL](#)

[DLT-ETH](#)

[DLT-GOS-ETH](#)

[DLT-LSWITCH-PORT](#)

[DLT-VLAN](#)

[DLT-VLAN-VBPORT](#)

[ED-GOS-ETH](#)

[ED-VLAN-PORT](#)

[ENT-AGG](#)

[ENT-AGG-PORT](#)

[ENT-GOS-ETH](#)

[ENT-LSWITCH-PORT](#)

[ENT-VLAN](#)

[ENT-VLAN-VBPORT](#)

[INIT-STAT-ETH](#)

[REPT EVT ETH](#)

[REPT RST ETH](#)

[RST-ETH](#)

[RTRV-AGG](#)
[RTRV-AGG-PORT](#)
[RTRV-COND-ETH](#)
[RTRV-ETH-ACL](#)
[RTRV-LSWITCH](#)
[RTRV-PM-ETH](#)
[RTRV-STAT-ETH](#)
[RTRV-VLAN-PORT](#)

[RTRV-AGG-ACL](#)
[RTRV-ALM-ETH](#)
[RTRV-ETH](#)
[RTRV-GOS-ETH](#)
[RTRV-LSWITCH-PORT](#)
[RTRV-PROF-ETH](#)
[RTRV-VLAN](#)
[RTRV-VLAN-VBPORT](#)

Input Format

```
ENT-ETH-
ACL:[ TID ]:<EthPortAid>:[ CTAG ]:::[ [ MAC=<MAC> , ] [ MMSK=<MMSK> ] ] ;
```

Input Parameters

EthPortAid Ethernet Port Access Identifier. *EthPortAid* is the AID [TwelvePortLuAid](#).

MAC MAC address. *MAC* is the AID [MacAid](#).

MMSK MAC address mask. *MMSK* is the AID [MacAid](#).

Input Example

```
ENT-ETH-ACL:SYS1:N4-3-1-2:345:::MAC=01-23-45-67-89-AB,MMSK=01-
23-45-67-89-AB;
```

Errors

This message generates all of the [Default Errors](#).

ENT-FFP-<OCN>

Name

ENT-FFP-<[OCN](#)>: Enter Facilities Protection Group (OC12, OC3, OC48)

Description

Category: Protection Switching

Security: Memory Admin - by rate

This command provides for creation of an OCn facility protection group. It associates a protecting (alternate) facility with a protected (main/preferred) facility(s).

The combination of BDCST, PSDIRN, MODE, and ORP parameters values indicate the type of protection being provided. The following table shows the protection provided based on the combination of parameter values.

Protection	BDCST	PSDIRN	MODE	ORP
Linear 1+1 UNI	Y	UNI	OPEN	N
Ring UPSR	Y	UNI	CLOSED	N
Ring UPSR + packet aggregation	Y	UNI	CLOSED	Y
Linear 1+1 BI	Y	BI	OPEN	N
Linear 1:1 UNI	N	UNI	OPEN	N
Linear 1:1 BI	N	BI	OPEN	N

Defined in GR-199.

Related Messages:

[DLT-<OCN>](#)

[DLT-GOS-<OCN>](#)

[ED-FFP-<OCN>](#)

[ENT-<OCN>](#)

[INIT-REG-<OCN>](#)

[OPR-PROTNSW-<OCN>](#)

[REPT EVT <OCN>](#)

[REPT RST <OCN>](#)

[RLS-PROTNSW-<OCN>](#)

[RST-<OCN>](#)

[RTRV-ALM-<OCN>](#)

[RTRV-FFP-<OCN>](#)

[RTRV-PM-<OCN>](#)

[DLT-FFP-<OCN>](#)

[ED-<OCN>](#)

[ED-GOS-<OCN>](#)

[ENT-GOS-<OCN>](#)

[OPR-LPBK-<OCN>](#)

[REPT ALM <OCN>](#)

[REPT RMV <OCN>](#)

[RLS-LPBK-<OCN>](#)

[RMV-<OCN>](#)

[RTRV-<OCN>](#)

[RTRV-COND-<OCN>](#)

[RTRV-GOS-<OCN>](#)

Input Format

```
ENT-FFP-<OCN>:[TID]:  
<WrkOcNAid>,<ProtOcNAid>:[CTAG]:::BDCST=<BDCST>,[ [PSDIRN=<PSDIRN>,]  
[RVRTV=<RVRTV>] ] ,MODE=<MODE>,[ [PDIP=<PDIP>],[WTR=<WTR>],[ORP=<ORP>],  
[APSOP=<APSOP>] ] ;
```

Input Parameters

WrkOcNAid Working OCn Access Identifier. The address of the port which receives the traffic from the working fiber in the facility protection group. *WrkOcNAid* is the AID [FourPortLuAndRapAid](#).

ProtOcNAid	Protection OCn Access Identifier. The address of the port which receives the traffic from the protect fiber in the facility protection group. <i>ProtOcNAid</i> is the AID FourPortLuAndRapAid .
BDCST	Broadcast. This parameter is set to Y if the signal is to be broadcast over the protected (main) and the protecting (protection) channels simultaneously for a 1+1 protection scheme. It is set to N if the signal is only to be sent over the active channel. <i>BDCST</i> is of type BoolYN .
PSDIRN	Protection Switch Direction. Specifies whether both directions of a bi-directional connection are to be switched together. The default will be set to UNI when BDCST = Y and BI when BDCST = N. <i>PSDIRN</i> is of type ProtnSwDirection .
RVRTV	Revertive. This parameter indicates the type of protection requested. The parameter value can be either Y = revertive or N = non-revertive. The default will be set to Y when BDCST = N or N when BDCST = Y. <i>RVRTV</i> is of type BoolYN .
MODE	Protection Mode. The mode parameter indicates whether the protection is applied to an OPEN (linear) protection scheme or a CLOSED (ring) protection scheme. <i>MODE</i> is of type Mode .
PDIP	Payload Defect Indication. This parameter indicates whether to switch on a PDI-P defect. This parameter is applicable only when MODE = CLOSED. <i>PDIP</i> is of type BoolYN . The default value is "N".
WTR	Wait to Restore. The amount of time in minutes to wait before restoring a revertive protection switch. Does not apply to non-revertive protection switch. <i>WTR</i> is of type WaitToRestore . The default value is "5".
ORP	Optical Restoration Protocol (ORP). This parameter indicates if the optical facility should provide ORP protection. A value of Y = ORP requested and a N = No ORP protection. This parameter is applicable only when MODE = CLOSED. <i>ORP</i> is of type BoolYN . The default value is "N".
APSOP	Automatic Protection Switch Operation. This parameter may be set to N to disable the execution of the Automatic Protection Switching (APS) protocol (processing of K-bytes). This option is useful for Ring Management when new Nodes are added/deleted in a BLSR which allows the ring maps to be updated for all the existing nodes in a ring. In the case of a Linear protection configuration, the addition/deletion of a new NE in an existing span will require that APS operation be temporarily turned off, while traffic re-configuration is in progress. NOTE: This parameter has been deprecated and will be ignored by the C7. <i>APSOP</i> is of type BoolYN .

Input Example

```
ENT-FFP-OC12:SYS56:N3-3-5-1,N3-3-6-
1:353:::BDCST=Y,PSDIRN=UNI,RVRTV=N,
MODE=CLOSED,PDIP=Y,WTR=5,ORP=Y,APSOP=N;
```

Errors

This message generates all of the [Default Errors](#).

ENT-GOS-<OCN>

Name

ENT-GOS-<[OCN](#)>: Enter Grade of Service (OC12, OC3, OC48)

Description

Category: Performance Monitoring

Security: Memory Admin - by rate

This command is used to set the threshold values for a set of performance parameters called a Grade of Service (GOS). The particular GOS being set is identified by the integer in the AID field of this command. To use the set, it is referenced by the GOS parameter of the appropriate ENT-rr or ED-rr command.

The GOS sets are shared by all shelves in a system. Separate GOS sets are maintained for each facility type so the number assigned to a GOS for one facility type may also be assigned to another facility type's GOS without conflict.

Defined in GR-199.

Related Messages:

[DLT-<OCN>](#)
[DLT-GOS-<OCN>](#)
[ED-FFP-<OCN>](#)
[ENT-<OCN>](#)
[INIT-REG-<OCN>](#)
[OPR-PROTNSW-<OCN>](#)
[REPT EVT <OCN>](#)
[REPT RST <OCN>](#)
[RLS-PROTNSW-<OCN>](#)
[RST-<OCN>](#)
[RTRV-ALM-<OCN>](#)
[RTRV-FFP-<OCN>](#)
[RTRV-PM-<OCN>](#)

[DLT-FFP-<OCN>](#)
[ED-<OCN>](#)
[ED-GOS-<OCN>](#)
[ENT-FFP-<OCN>](#)
[OPR-LPBK-<OCN>](#)
[REPT ALM <OCN>](#)
[REPT RMV <OCN>](#)
[RLS-LPBK-<OCN>](#)
[RMV-<OCN>](#)
[RTRV-<OCN>](#)
[RTRV-COND-<OCN>](#)
[RTRV-GOS-<OCN>](#)

Input Format

```
ENT-GOS-<OCN>:[TID]:<GosAid>:[CTAG]::  

<LOCN>,<TMPER>:[ [CVL=<CVL>,[ESL=<ESL>,[SESL=<SESL>,[UASL=<UASL>,[  

[CVS=<CVS>,[ESS=<ESS>,[SESS=<SESS>,[SEFSS=<SEFSS>,[DESC=<DESC>]]];
```

Input Parameters

GosAid	Grade of Service Access Identifier. The address of the OCn facility Grade of Service table entry. <i>GosAid</i> is the AID GosProvAid .
LOCN	Location. Indicates whether the near end or far end Path PM registers are to be entered. Section PM registers are only kept in association with the near end. <i>LOCN</i> is of type Location .
TMPER	Time Period. This parameter specifies the accumulation time period for the PM information. <i>TMPER</i> is of type PMPPeriod .
CVL	Coding Violations Threshold Line. The threshold value for the coding violations for the line. The default threshold for 15-MIN is 25 and for 1-DAY is 250. <i>CVL</i> is of type CVThreshRange .
ESL	Errored Seconds Threshold Line. The threshold value for the errored seconds for the line. The default threshold for 15-MIN is 12 and for 1-DAY is 200. <i>ESL</i> is of type SecondsThreshRange .
SESL	Severely Errored Seconds Threshold Line. The threshold value for the severely errored seconds for the line. The default threshold for 15-MIN is 3 and for 1-DAY is 7. <i>SESL</i> is of type SecondsThreshRange .
UASL	Errored Seconds Threshold Section. The threshold value for the errored seconds for the section. The default threshold for 15-MIN is 10 and for 1-DAY is 10. <i>UASL</i> is of type SecondsThreshRange .
CVS	Coding Violations Threshold Section. The threshold value for the coding violations for the section. The default threshold for 15-MIN is 25 and for 1-DAY is 250. This parameter does not apply to far end provisioning. <i>CVS</i> is of type CVThreshRange .
ESS	Errored Seconds Threshold Section. The threshold value for the errored seconds for the section. The default threshold for 15-MIN is 12 and for 1-DAY is 200. This parameter does not apply to far end provisioning. <i>ESS</i> is of type SecondsThreshRange .
SESS	Severely Errored Seconds Threshold Section. The threshold value for the severely errored seconds for the section. The default threshold for 15-MIN is 3 and for 1-DAY is 7. This parameter does not apply to far end provisioning. <i>SESS</i> is of type SecondsThreshRange .
SEFSS	Severely Errored Framing Seconds Threshold Section. The threshold value for the severely errored framing seconds for the section. This parameter does not apply to far end provisioning. Default threshold for 15-MIN interval and 1-DAY interval is 10 <i>SEFSS</i> is of type SecondsThreshRange .
DESC	A string description of this object, up to 11 characters in length. <i>DESC</i> is a String.

Input Example

```
ENT-GOS-OC12:SYS1:3:324::NEND,15-
MIN:CVL=25,ESL=12,SESL=3,UASL=10,CVS=25,
ESS=12,SESS=3,SEFSS=10,DESC="GOS VERS 3";
```

Errors

This message generates all of the [Default Errors](#).

ENT-GOS-<STS>

Name

ENT-GOS-<[STS](#)>: Enter Grade of Service (STS1, STS12C, STS3C, STS48C)

Description

Category: Performance Monitoring

Security: Memory Admin - by rate

This command is used to set the threshold values for a set of performance parameters called a Grade of Service (GOS). The particular GOS being set is identified by the integer in the AID field of this command. To use the set, it is referenced by the GOS parameter of the appropriate ENT-rr or ED-rr command.

The GOS sets are shared by all shelves in a system. Separate GOS sets are maintained for each facility type so the number assigned to a GOS for one facility type may also be assigned to another facility type's GOS without conflict.

Default Values by STS Type

15-MIN Defaults for:	STS1	STS3C	STS12C	STS48C
CVP	15	25	75	225
ESP	12	20	60	180
SESP	3	3	3	3
UASP	10	10	10	10

Default Values by STS Type

1-DAY Defaults for:	STS1	STS3C	STS12C	STS48C
CVP	125	250	750	2250
ESP	100	200	600	1800
SESP	7	7	7	7
UASP	10	10	10	10

Defined in GR-199.

Related Messages:

[DLT-<STS>](#)

[DLT-CRS-<STS>](#)

[DLT-GOS-<STS>](#)

[ED-<STS>](#)

[ED-CRS-<STS>](#)

[ED-GOS-<STS>](#)

[ENT-<STS>](#)

[ENT-CRS-<STS>](#)

[INIT-REG-<STS>](#)

[OPR-PROTNSW-<STS>](#)

[REPT ALM <STS>](#)

[REPT EVT <STS>](#)

[REPT RMV <STSN>](#)
[RLS-PROTNSW-<STSN>](#)
[RST-<STSN>](#)
[RTRV-ALM-<STSN>](#)
[RTRV-CRS-<STSN>](#)
[RTRV-PM-<STSN>](#)

[REPT RST <STSN>](#)
[RMV-<STSN>](#)
[RTRV-<STSN>](#)
[RTRV-COND-<STSN>](#)
[RTRV-GOS-<STSN>](#)

Input Format

```
ENT-GOS-<STSN>:[TID]:<GosAid>:[CTAG]::  

<LOCN>,<TMPER>:[ [ CVP=<CVP> , ][ ESP=<ESP> , ][ SESP=<SESP> , ][ UASP=<UASP> , ]  

[ PERUPE=<PERUPE> , ][ DESC=<DESC> ] ] ;
```

Input Parameters

- GosAid** Grade of Service Access Identifier. The address of the STS1 facility Grade of Service table entry. *GosAid* is the AID [GosProvAid](#).
- LOCN** The location associated with a particular command. Location. This parameter indicates whether the near end or far end PM threshold values are being provisioned. *LOCN* is of type [Location](#).
- TMPER** The accumulation period for performance counters. Time Period. This parameter specifies the accumulation time period for the PM information. *TMPER* is of type [PMPPeriod](#).
- CVP** Coding Violations Threshold Path. The threshold value for the coding violations for the path. *CVP* is of type [CVThreshRange](#).
- ESP** Errorred Seconds Threshold Path. The threshold value for the errored seconds for the path. *ESP* is of type [SecondsThreshRange](#).
- SESP** Severely Errorred Seconds Threshold Path. The threshold value for the severely errored seconds for the path. *SESP* is of type [SecondsThreshRange](#).
- UASP** Un-Available seconds path. This is the threshold value for the un-available seconds for the path. *UASP* is of type [SecondsThreshRange](#).
- PERUPE** Percent Utilization - Path, Egress. Default value is 85 percent. *PERUPE* is of type [Percentage](#). The default value is "85".
- DESC** A string description of this object, up to 11 characters in length. *DESC* is a String.

Input Example

```
ENT-GOS-STS1:SYS1:3:324::NEND,15-  

MIN:CVP=15,ESP=12,SESP=3,UASP=5,PERUPE=85,  

DESC="GOS VERS 3";
```

Errors

This message generates all of the [Default Errors](#).

ENT-GOS-ADSL

Name

ENT-GOS-ADSL: Enter Grade of Service Asymmetric Digital Subscriber Line

Description

Category: Performance Monitoring

Security: Memory Admin - by rate

This command is used to set the threshold values for a set of performance parameters called a Grade of Service (GOS). The particular GOS being set is identified by the integer in the AID field of this command. To use the set, it is referenced by the GOS parameter of the appropriate ENT-rr or ED-rr command.

The GOS sets are shared by all shelves in a system. Separate GOS sets are maintained for each facility type so the number assigned to a GOS for one facility type may also be assigned to another facility type's GOS without conflict.

Defined in GR-199.

Related Messages:

[DLT-ADSL](#)
[DLT-TMPLT-ADSL](#)
[ED-GOS-ADSL](#)
[ENT-TMPLT-ADSL](#)
[INIT-PWR-ADSL](#)
[REPT ALM ADSL](#)
[REPT RMV ADSL](#)
[RMV-ADSL](#)
[RTRV-ADSL](#)
[RTRV-COND-ADSL](#)
[RTRV-GOS-ADSL](#)
[RTRV-TMPLT-ADSL](#)

[DLT-GOS-ADSL](#)
[ED-ADSL](#)
[ENT-ADSL](#)
[INIT-ADSL](#)
[INIT-REG-ADSL](#)
[REPT EVT ADSL](#)
[REPT RST ADSL](#)
[RST-ADSL](#)
[RTRV-ALM-ADSL](#)
[RTRV-CSTAT-ADSL](#)
[RTRV-PM-ADSL](#)

Input Format

```
ENT-GOS-ADSL:[TID]:<GosAid>:[CTAG]::<LOCN>,<TMPER>:[ [CVFL=<CVFL>, ]  

[CVIL=<CVIL>, ][ECFL=<ECFL>, ][ECIL=<ECIL>, ][ECSL=<ECSL>, ][ESL=<ESL>, ]  

[SESL=<SESL>, ][UASL=<UASL>, ][LOSSL=<LOSSL>, ][PERU=<PERU>, ][PERUE=<PERUE>, ]  

[LOSC=<LOSC>, ][DESC=<DESC>] ];
```

Input Parameters

GosAid	Grade of Service Access Identifier. The address of the ADSL Grade of Service table entry. <i>GosAid</i> is the AID GosProvAid .
LOCN	Location. This parameter indicates whether the near end or far end PM threshold values are being provisioned. <i>LOCN</i> is of type Location .
TMPER	Time Period. This parameter specifies the accumulation time period for the PM information. <i>TMPER</i> is of type PMPPeriod .
CVFL	Coding violations fast - line. The threshold value for the coding violations fast for the line. The default threshold for 15-MIN is 25 and for 1-DAY is 250. <i>CVFL</i> is of type CVAdslThreshRange .
CVIL	Coding violations interleaved - line. The threshold value for the coding violations interleaved for the line. The default threshold for 15-MIN is 25 and for 1-DAY is 250. <i>CVIL</i> is of type CVAdslThreshRange .
ECFL	Forward error correction count fast - line. The threshold value for the forward error correction count fast for the line. The default threshold for 15-MIN is 10 and for 1-DAY is 100. <i>ECFL</i> is of type ECThreshRange .
ECIL	Forward error correction count interleaved - line. The threshold value for the forward error correction count interleaved for the line. The default threshold for 15-MIN is 10 and for 1-DAY is 100. <i>ECIL</i> is of type ECThreshRange .
ECSL	Forward error correction count second - line. The threshold value for the forward error correction count second for the line. The default threshold for 15-MIN is 10 and for 1-DAY is 100. <i>ECSL</i> is of type SecondsThreshRange .
ESL	Errored seconds - line. The threshold value for the errored seconds for the line. The default threshold for 15-MIN is 65 and for 1-DAY is 648. <i>ESL</i> is of type SecondsThreshRange .
SESL	Severely errored seconds - line. The threshold value for the severely errored seconds for the line. The default threshold for 15-MIN is 10 and for 1-DAY is 100. <i>SESL</i> is of type SecondsThreshRange .
UASL	Unavailable Seconds Threshold Line. The threshold value for the unavailable seconds for the line. The default threshold for 15-MIN is 65 and for 1-DAY is 65. <i>UASL</i> is of type SecondsThreshRange .
LOSSL	LOS Seconds Threshold Line. The threshold value for the LOS seconds for the line. The default threshold for 15-MIN is 10 and for 1-DAY is 10. <i>LOSSL</i> is of type SecondsThreshRange .
PERU	Percent Utilization, Ingress (Near End only). The default threshold for 15-MIN is 85 and for 1-DAY is 85. <i>PERU</i> is of type Percentage .
PERUE	Percent Utilization - Path, Egress (Near End only). The default threshold for 15-MIN is 85 and for 1-DAY is 85. <i>PERUE</i> is of type Percentage .
LOSC	Loss of Signal Count (Near End only). This indicates the number of times a LOS condition was set, and also represents the number of modem retrains in the time period. The default threshold for 15-MIN is 3 and for 1-DAY is 10. <i>LOSC</i> is a Integer.
DESC	A string description of this object, up to 11 characters in length. <i>DESC</i> is a String.

Input Example

```
ENT-GOS-ADSL:SYS1:3:324::NEND,15-
MIN:CVFL=25,CVIL=25,ECFL=10,ECIL=10,ECSL=10,
```

```
ESL=65 ,SESL=10 ,UASL=65 ,LOSSL=30 ,PERU=85 ,PERUE=85 ,LOSC=3 ,DESC="GOS
VERS 3 ";
```

Errors

This message generates all of the [Default Errors](#).

ENT-GOS-AP

Name

ENT-GOS-AP: Enter Grade of Service ATM Resource Port

Description

Category: Performance Monitoring

Security: Memory Admin - by rate

This command is used to set the threshold values for a set of performance parameters called a Grade of Service (GOS). The particular GOS being set is identified by the integer in the AID field of this command. To use the set, it is referenced by the GOS parameter of the appropriate ENT-rr or ED-rr command.

The GOS sets are shared by all shelves in a system. Separate GOS sets are maintained for each facility type so the number assigned to a GOS for one facility type may also be assigned to another facility type's GOS without conflict.

Defined in GR-199.

Related Messages:

[DLT-AP](#)

[DLT-AP-T1](#)

[DLT-GOS-AP](#)

[DLT-GOS-IMA](#)

[DLT-GOS-IMALINK](#)

[DLT-IMA](#)

[DLT-IMA-PORT](#)

[ED-AP](#)

[ED-GOS-AP](#)

[ED-GOS-IMA](#)

[ED-GOS-IMALINK](#)

[ED-IMA](#)

[ENT-AP](#)

[ENT-AP-T1](#)

[ENT-GOS-IMA](#)

[ENT-GOS-IMALINK](#)

[ENT-IMA](#)

[ENT-IMA-PORT](#)

[INIT-REG-AP](#)

[INIT-REG-IMA](#)

[INIT-REG-IMALINK](#)

[REPT ALM AP](#)

[REPT ALM IMA](#)

[REPT ALM IMALINK](#)

[REPT EVT AP](#)

[REPT EVT IMA](#)

[REPT EVT IMALINK](#)

[REPT RMV AP](#)

[REPT RST AP](#)[RMV-IMA](#)[RST-IMA](#)[RTRV-ALM-IMA](#)[RTRV-AP](#)[RTRV-COND-IMA](#)[RTRV-GOS-IMA](#)[RTRV-IMA](#)[RTRV-PM-IMA](#)[RMV-AP](#)[RST-AP](#)[RTRV-ALM-AP](#)[RTRV-ALM-IMALINK](#)[RTRV-COND-AP](#)[RTRV-GOS-AP](#)[RTRV-GOS-IMALINK](#)[RTRV-PM-AP](#)[RTRV-PM-IMALINK](#)

Input Format

```
ENT-GOS-AP:[TID]:<GosAid>:[CTAG]::<LOCN>,<TMPER>:[ [ PERUP=<PERUP> , ]
[ PERUPE=<PERUPE> , ] [ IVIMA=<IVIMA> , ] [ OIFIMA=<OIFIMA> , ] [ SESIMA=<SESIMA> , ]
[ UASIMA=<UASIMA> , ] [ TXUUSIMA=<TXUUSIMA> , ] [ RXUUSIMA=<RXUUSIMA> , ]
[ TXFC=<TXFC> , ] [ RXFC=<RXFC> , ] [ TXSTUFFIMA=<TXSTUFFIMA> , ]
[ RXSTUFFIMA=<RXSTUFFIMA> , ] [ DESC=<DESC> ] ;
```

Input Parameters

GosAid	<i>GosAid</i> is the AID GosProvAid .
LOCN	Location. This parameter indicates whether the near end or far end PM threshold values are being provisioned. <i>LOCN</i> is of type Location .
TMPER	Time Period. This parameter specifies the accumulation time period for the PM information. <i>TMPER</i> is of type PMPPeriod .
PERUP	Percent Utilization - Path, Ingress (Near End only). Default value is 85 percent. <i>PERUP</i> is of type Percentage .
PERUPE	Percent Utilization - Path, Egress (Near End only). Default value is 85 percent. <i>PERUPE</i> is of type Percentage .
IVIMA	ICP Violations. Count of errored, invalid, or missing ICP cells, except during seconds where a SES-IMA or UAS-IMA condition is reported (Near End only). Default threshold for 15MIN interval is 15 seconds. Default threshold for 1 DAY interval is 150 seconds. <i>IVIMA</i> is of type SecondsThreshRange .
OIFIMA	Out of IMA Frame (Near End only). Count of OIF anomalies except during SES-IMA or UAS-IMA conditions. Default threshold for 15MIN interval is 15 seconds. Default threshold for 1 DAY interval is 150 seconds. <i>OIFIMA</i> is of type SecondsThreshRange .
SESIMA	Severely Errored Seconds. Count of 1-second intervals containing $\geq 30\%$ of the ICP cells counted as IV-IMAs, or one or more near-end link defects (facility, LIF, or LODS) during non-UAS-IMA intervals. The number of IV-IMA counts required to meet the 30% criteria will depend on the facility line rate and the IMA frame size (M). Default threshold for 15MIN interval is 15 seconds. Default threshold for 1 DAY interval is 150 seconds. <i>SESIMA</i> is of type SecondsThreshRange .
UASIMA	Unavailable seconds at NE. The NE unavailability begins at the onset of 10 contiguous SES-IMA including the first 10 seconds to enter the UAS-IMA condition, and ends at the onset of 10 contiguous second with no SES-IMA, excluding the last 10 seconds to exit the UAS-IMA condition. Default threshold for 15MIN interval is 15 seconds.

Default threshold for 1 DAY interval is 150 seconds. *UASIMA* is of type [SecondsThreshRange](#).

TXUUSIMA	Transit Unusable Seconds (Near End only). Count of Tx Unusable seconds at the Tx NE Link State Machine (LSM). Default threshold for 15MIN interval is 15 seconds. Default threshold for 1 DAY interval is 150 seconds. <i>TXUUSIMA</i> is of type SecondsThreshRange .
RXUUSIMA	Receive Unusable Seconds (Near End only). Count of Rx Unusable seconds at the Rx NE LSM. Default threshold for 15MIN interval is 15 seconds. Default threshold for 1 DAY interval is 150 seconds. <i>RXUUSIMA</i> is of type SecondsThreshRange .
TXFC	Transit Failure Count. Count of the number of NE Transmit Link failure alarm entrances. The possible NE Tx link failure alarm conditions are: Tx-Mis-Connected and Tx-Fault. Default threshold for 15MIN interval is 15 seconds. Default threshold for 1 DAY interval is 150 seconds. <i>TXFC</i> is of type SecondsThreshRange .
RXFC	Receive Failure Count. Count of the number of NE Receive Link failure alarm entrances. The possible NE Rx link failure alarm conditions are: LIF, LODS, and Rx-Fault. Default threshold for 15MIN interval is 15 seconds. Default threshold for 1 DAY interval is 150 seconds. <i>RXFC</i> is of type SecondsThreshRange .
TXSTUFFIMA	Transmit Stuff Events (Near End only). Count of stuff events inserted in the transmitted direction. Default value is 0. <i>TXSTUFFIMA</i> is of type ImaLinkStuff .
RXSTUFFIMA	Receive Stuff Events (Near End only). Count of stuff events inserted in the receive direction, except during SES-IMA and UAS-IMA conditions. Default value is 0. <i>RXSTUFFIMA</i> is of type ImaLinkStuff .
DESC	A string description of this object, up to 11 characters in length. <i>DESC</i> is a String.

Input Example

```
ENT-GOS-AP:SYS1:3:324::NEND,15-
MIN:PERUP=85,PERUPE=85,IVIMA=100,OIFIMA=100,
SESIMA=100,UASIMA=10,TXUUSIMA=10,RXUUSIMA=10,TXFC=50,RXFC=50,TXSTUFFIMA=50,
RXSTUFFIMA=50,DESC="AP GOS 3";
```

Errors

This message generates all of the [Default Errors](#).

ENT-GOS-EC1

Name

ENT-GOS-EC1: Enter Grade of Service Electrical Carrier

Description

Category: Performance Monitoring**Security:** Memory Admin - by rate

This command is used to set the threshold values for a set of performance parameters called a Grade of Service (GOS). The particular GOS being set is identified by the integer in the AID field of this command. To use the set, it is referenced by the GOS parameter of the appropriate ENT-rr or ED-rr command.

The GOS sets are shared by all shelves in a system. Separate GOS sets are maintained for each facility type so the number assigned to a GOS for one facility type may also be assigned to another facility type's GOS without conflict.

Related Messages:

[DLT-EC1](#)
[ED-EC1](#)
[ENT-EC1](#)
[OPR-LPBK-EC1](#)
[REPT EVT EC1](#)
[REPT RST EC1](#)
[RMV-EC1](#)
[RTRV-ALM-EC1](#)
[RTRV-EC1](#)
[RTRV-PM-EC1](#)

[DLT-GOS-EC1](#)
[ED-GOS-EC1](#)
[INIT-REG-EC1](#)
[REPT ALM EC1](#)
[REPT RMV EC1](#)
[RLS-LPBK-EC1](#)
[RST-EC1](#)
[RTRV-COND-EC1](#)
[RTRV-GOS-EC1](#)

Input Format

```
ENT-GOS-
EC1:[TID]:<GosAid>:[CTAG]::<LOCN>,<TMPER>:[ [ CVL=<CVL>,[ ESL=<ESL>,
[ SESL=<SESL>,[ UASL=<UASL>,[ CVS=<CVS>,[ ESS=<ESS>,[ SESS=<SESS>,
[ SEFSS=<SEFSS>,[ DESC=<DESC> ];
```

Input Parameters

GosAid Grade of Service Access Identifier. The address of the EC1 facility Grade of Service table entry. *GosAid* is the AID [GosProvAid](#).

LOCN Location. Indicates whether the near end or far end Path PM registers are to be edited. Section PM registers are only kept in association with the near end. *LOCN* is of type [Location](#).

TMPER Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. *TMPER* is of type [PMPPeriod](#).

CVL Coding Violations Threshold Line. The threshold value for the coding violations for the line. *CVL* is of type [CVThreshRange](#). The default value is "15".

ESL Errored Seconds Threshold Line. The threshold value for the errored seconds for the line. *ESL* is of type [SecondsThreshRange](#). The default value is "12".

SESL Severely Errored Seconds Threshold Line. The threshold value for the severely errored seconds for the line. *SESL* is of type [SecondsThreshRange](#). The default value is "3".

UASL Unavailable Seconds Threshold Line. The threshold value for the unavailable seconds for the line. *UASL* is of type [SecondsThreshRange](#). The default value is "10".

CVS	Coding Violations Threshold Section. The threshold value for the coding violations for the section. This parameter does not apply to far end provisioning. <i>CVS</i> is of type CVThreshRange . The default value is "15".
ESS	Errored Seconds Threshold Section. The threshold value for the errored seconds for the section. This parameter does not apply to far end provisioning. <i>ESS</i> is of type SecondsThreshRange . The default value is "12".
SESS	Severely Errored Seconds Threshold Section. The threshold value for the severely errored seconds for the section. This parameter does not apply to far end provisioning. <i>SESS</i> is of type SecondsThreshRange . The default value is "3".
SEFSS	Severely Errored Framing Seconds Threshold Section. The threshold value for the severely errored framing seconds for the section. This parameter does not apply to far end provisioning. <i>SEFSS</i> is of type SecondsThreshRange . The default value is "10".
DESC	A string description of this object, up to 11 characters in length. <i>DESC</i> is a String. The default value is "the GosAid".

Input Example

```
ENT-GOS-EC1:SYS1:3:324::NEND,15-
MIN:CVL=25,ESL=12,SESL=3,UASL=10,CVS=25,
ESS=12,SESS=3,SEFSS=10,DESC="GOS VERS 3";
```

Errors

This message generates all of the [Default Errors](#).

ENT-GOS-ETH

Name

ENT-GOS-ETH: Enter Grade of Service Ethernet Port

Description

Category: Performance Monitoring

Security: Memory Admin - by rate

This command is used to set the threshold values for a set of performance parameters called a Grade of Service (GOS). The particular GOS being set is identified by the integer in the AID field of this command. To use the set, it is referenced by the GOS parameter of the appropriate ENT-rr or ED-rr command.

The GOS sets are shared by all shelves in a system. Separate GOS sets are maintained for each facility type so the number assigned to a GOS for one facility type may also be assigned to another facility type's GOS without conflict.

This command is not available in release 5.1

Related Messages:

[DLT-AGG](#)
[DLT-AGG-PORT](#)
[DLT-ETH-ACL](#)
[DLT-LSWITCH](#)
[DLT-PROF-ETH](#)
[DLT-VLAN-PORT](#)
[ED-ETH](#)
[ED-VLAN](#)
[ED-VLAN-VBPORT](#)
[ENT-AGG-ACL](#)
[ENT-ETH](#)
[ENT-LSWITCH](#)
[ENT-PROF-ETH](#)
[ENT-VLAN-PORT](#)
[INIT-LSWITCH](#)
[REPT ALM ETH](#)
[REPT RMV ETH](#)
[RMV-ETH](#)
[RTRV-AGG](#)
[RTRV-AGG-PORT](#)
[RTRV-COND-ETH](#)
[RTRV-ETH-ACL](#)
[RTRV-LSWITCH](#)
[RTRV-PM-ETH](#)
[RTRV-STAT-ETH](#)
[RTRV-VLAN-PORT](#)

[DLT-AGG-ACL](#)
[DLT-ETH](#)
[DLT-GOS-ETH](#)
[DLT-LSWITCH-PORT](#)
[DLT-VLAN](#)
[DLT-VLAN-VBPORT](#)
[ED-GOS-ETH](#)
[ED-VLAN-PORT](#)
[ENT-AGG](#)
[ENT-AGG-PORT](#)
[ENT-ETH-ACL](#)
[ENT-LSWITCH-PORT](#)
[ENT-VLAN](#)
[ENT-VLAN-VBPORT](#)
[INIT-STAT-ETH](#)
[REPT EVT ETH](#)
[REPT RST ETH](#)
[RST-ETH](#)
[RTRV-AGG-ACL](#)
[RTRV-ALM-ETH](#)
[RTRV-ETH](#)
[RTRV-GOS-ETH](#)
[RTRV-LSWITCH-PORT](#)
[RTRV-PROF-ETH](#)
[RTRV-VLAN](#)
[RTRV-VLAN-VBPORT](#)

Input Format

```
ENT-GOS-
ETH:[ TID ]:<GosAid>:[ CTAG ]::<LOCN>, <TMPER>:[ [ FCSERROR=<FCSERROR>, ]
[ XSCOLL=<XSCOLL>, ] [ LATECOLL=<LATECOLL>, ] [ TOOLONG=<TOOLONG>, ]
[ INBUFOVFL=<INBUFOVFL>, ] [ OUTBUFOVFL=<OUTBUFOVFL>, ] [ SQTEST=<SQTEST>, ]
[ DEFERRED=<DEFERRED>, ] [ ALIGNERR=<ALIGNERR>, ] [ RXINTERR=<RXINTERR>, ]
[ DESC=<DESC> ] ;
```

Input Parameters

GosAid	<i>GosAid</i> is the AID GosProvAid .
LOCN	Location. This parameter indicates whether the near end or far end PM threshold values are being provisioned. Only NEND counters are supported. <i>LOCN</i> is of type Location and can be one of the following values: "NEND".

TMPER	Time Period. This parameter specifies the accumulation time period for the PM information. <i>TMPER</i> is of type PMPeriod .
FCSERROR	FCS Error Counter. <i>FCSERROR</i> is a Integer.
XSCOLL	Excessive Collision Counter. <i>XSCOLL</i> is a Integer.
LATECOLL	Late Collision Counter. <i>LATECOLL</i> is a Integer.
TOOLONG	FrameTooLongs. <i>TOOLONG</i> is a Integer.
INBUFOVFL	Buffer Overflows on Receive. <i>INBUFOVFL</i> is a Integer.
OUTBUFOVFL	Buffer Overflows on Transmit. <i>OUTBUFOVFL</i> is a Integer.
SQETEST	SQE Counter. <i>SQETEST</i> is a Integer.
DEFERRED	Deferred Transmission Counter. <i>DEFERRED</i> is a Integer.
ALIGNERR	Alignment Error Counter. <i>ALIGNERR</i> is a Integer.
RXINTERR	Internal MAC Receive Error Counter. <i>RXINTERR</i> is a Integer.
DESC	A string description of this object, up to 11 characters in length. <i>DESC</i> is a String.

Input Example

```
ENT-GOS-ETH:SYS1:3:324::NEND,15-
MIN:FCSERROR=2,XSCOLL=2,LATECOLL=2,TOOLONG=2,
INBUFOVFL=2,OUTBUFOVFL=2,SQETEST=3,DEFERRED=2,ALIGNERR=2,RXINTERR=2,
DESC="ETH GOS 3";
```

Errors

This message generates all of the [Default Errors](#).

ENT-GOS-HDSL

Name

ENT-GOS-HDSL: Enter Grade of Service High bit rate Digital Subscriber Line

Description

Category: Performance Monitoring

Security: Memory Admin - by rate

This command is used to set the threshold values for a set of performance parameters called a Grade of Service (GOS). The particular GOS being set is identified by the integer in the AID field of this command. To use the set, it is referenced by the GOS parameter of the appropriate ENT-rr or ED-rr command.

The GOS sets are shared by all shelves in a system. Separate GOS sets are maintained for each facility type so the number assigned to a GOS for one facility type may also be assigned to another facility type's GOS without conflict.

Defined in GR-199.

Related Messages:

DLT-GOS-HDSL	DLT-HDSL
ED-GOS-HDSL	ED-HDSL
ENT-HDSL	INIT-HDSL
INIT-REG-HDSL	OPR-LPBK-HDSL
REPT ALM HDSL	REPT EVT HDSL
REPT RMV HDSL	REPT RST HDSL
RLS-LPBK-HDSL	RMV-HDSL
RST-HDSL	RTRV-ALM-HDSL
RTRV-COND-HDSL	RTRV-CSTAT-HDSL
RTRV-GOS-HDSL	RTRV-HDSL
RTRV-HTU	RTRV-PM-HDSL

Input Format

```
ENT-GOS-
HDSL:[TID]:<GosAid>:[CTAG]::<LOCN>,<TMPER>:[ [ CVP=<CVP> , ] [ ESP=<ESP> , ]
[ SESP=<SESP> , ] [ CSSP=<CSSP> , ] [ UASP=<UASP> , ] [ CVL=<CVL> , ] [ ESL=<ESL> , ]
[ SESL=<SESL> , ] [ LOSWSL=<LOSWSL> , ] [ UASL=<UASL> , ] [ RTRN=<RTRN> , ] [ DESC=<DESC> ] ]
;
```

Input Parameters

GosAid	Grade of Service Access Identifier. The address of the HDSL port Grade of Service table entry. <i>GosAid</i> is the AID GosProvAid .
LOCN	Location. This parameter indicates whether the near end or far end PM threshold values are being provisioned. <i>LOCN</i> is of type Location .
TMPER	Time Period. This parameter specifies the accumulation time period for the PM information. <i>TMPER</i> is of type PMPeriod .
CVP	Coding Violations Threshold Path. The threshold value for the coding violations for the path. The default threshold for 15-MIN is 13,296 and for 1-DAY is 132,960. <i>CVP</i> is of type CVThreshRange .
ESP	Errored Seconds Threshold Path. The threshold value for the errored seconds for the path. The default threshold for 15-MIN is 65 and for 1-DAY is 648. <i>ESP</i> is of type SecondsThreshRange .
SESP	Severely Errored Seconds Threshold Path. The threshold value for the severely errored seconds for the path. The default threshold for 15-MIN is 10 and for 1-DAY is 100. <i>SESP</i> is of type SecondsThreshRange .
CSSP	Controlled Slip Seconds Path. The threshold value for the controlled slip seconds path. The default threshold for 15-MIN is 1 and for 1-DAY is 4. <i>CSSP</i> is of type SecondsThreshRange .

- UASP** Unavailable Seconds Threshold Path. The threshold value for the unavailable seconds for the path. The default threshold for 15-MIN is 10 and for 1-DAY is 10. *UASP* is of type [SecondsThreshRange](#).
- CVL** Coding Violations Threshold Line. The threshold value for the coding violations for the line (Near End only). The default threshold for 15-MIN is 13,340 and for 1-DAY is 133,400. *CVL* is of type [CVThreshRange](#).
- ESL** Errorred Seconds Threshold Line. The threshold value for the errorred seconds for the line (Near End only). The default threshold for 15-MIN is 65 and for 1-DAY is 648. *ESL* is of type [SecondsThreshRange](#).
- SESL** Severely Errorred Seconds Threshold Line. The threshold value for the severely errorred seconds for the line (Near End only). The default threshold for 15-MIN is 10 and for 1-DAY is 100. *SESL* is of type [SecondsThreshRange](#).
- LOSWSL** Loss of Sync Word Seconds Threshold Line (Near End). The default threshold for 15-MIN is 30 seconds and for 1-DAY is 120 seconds. *LOSWSL* is of type [SecondsThreshRange](#).
- UASL** Unavailable Seconds Threshold Line (Near End only). The threshold value for the unavailable seconds for the line. The default threshold for 15-MIN is 60 seconds and for 1-DAY is 120 seconds. *UASL* is of type [SecondsThreshRange](#).
- RTRN** ReTRaiN count (Near End). The threshold value for number of retrains on either loop (individually). The default threshold for 15-MIN is 3 retrains and for 1-DAY is 10 retrains. *RTRN* is a Integer.
- DESC** A string description of this object, up to 11 characters in length. *DESC* is a String. The default value is "the GosAid".

Input Example

```
ENT-GOS-HDSL:SYS1:3:246::NEND,15-
MIN:CVP=13296,ESP=65,SESP=10,CSSP=1,UASP=10,
CVL=13340,ESL=65,SESL=10,LOSWSL=123,UASL=123,RTRN=3,DESC=" 3 ";
```

Errors

This message generates all of the [Default Errors](#).

ENT-GOS-IMA

Name

ENT-GOS-IMA: Enter Grade of Service IMA

Description

Category: Performance Monitoring**Security:** Memory Admin - by rate

This command is used to set the threshold values for a set of performance parameters called a Grade of Service (GOS). The particular GOS being set is identified by the integer in the AID field of this command. To use the set, it is referenced by the GOS parameter of the appropriate ENT-rr or ED-rr command.

The GOS sets are shared by all shelves in a system. Separate GOS sets are maintained for each facility type so the number assigned to a GOS for one facility type may also be assigned to another facility type's GOS without conflict.

Related Messages:[DLT-AP](#)[DLT-GOS-AP](#)[DLT-GOS-IMALINK](#)[DLT-IMA-PORT](#)[ED-GOS-AP](#)[ED-GOS-IMALINK](#)[ENT-AP](#)[ENT-GOS-AP](#)[ENT-IMA](#)[INIT-REG-AP](#)[INIT-REG-IMALINK](#)[REPT ALM IMA](#)[REPT EVT AP](#)[REPT EVT IMALINK](#)[REPT RST AP](#)[RMV-IMA](#)[RST-IMA](#)[RTRV-ALM-IMA](#)[RTRV-AP](#)[RTRV-COND-IMA](#)[RTRV-GOS-IMA](#)[RTRV-IMA](#)[RTRV-PM-IMA](#)[DLT-AP-T1](#)[DLT-GOS-IMA](#)[DLT-IMA](#)[ED-AP](#)[ED-GOS-IMA](#)[ED-IMA](#)[ENT-AP-T1](#)[ENT-GOS-IMALINK](#)[ENT-IMA-PORT](#)[INIT-REG-IMA](#)[REPT ALM AP](#)[REPT ALM IMALINK](#)[REPT EVT IMA](#)[REPT RMV AP](#)[RMV-AP](#)[RST-AP](#)[RTRV-ALM-AP](#)[RTRV-ALM-IMALINK](#)[RTRV-COND-AP](#)[RTRV-GOS-AP](#)[RTRV-GOS-IMALINK](#)[RTRV-PM-AP](#)[RTRV-PM-IMALINK](#)**Input Format**

```
ENT-GOS-IMA:[TID]:<GosAid>:[CTAG]::<LOCN>,<TMPER>:[ [GRFC=<GRFC>, ]
[GRUASIMA=<GRUASIMA>, ][ PERUP=<PERUP>, ][ PERUPE=<PERUPE>, ][ DESC=<DESC> ] ];
```

Input Parameters

GosAid Grade of Service Access Identifier. The address of the IMA Group Grade of Service table entry. *GosAid* is the AID [GosProvAid](#).

LOCN Location. This parameter indicates whether the near end or far end PM threshold values

are being provisioned. *LOCN* is of type [Location](#).

TMPER	Time Period. This parameter specifies the accumulation time period for the PM information. <i>TMPER</i> is of type PMPeriod .
GRFC	Group failure count. Default threshold for 15MIN interval is 30 seconds. Default threshold for 1 Day is 300 seconds. <i>GRFC</i> is of type SecondsThreshRange .
GRUASIMA	Count of seconds where IMA GTSM is down (Near End only). Default threshold for 15MIN interval is 30 seconds. Default threshold for 1 Day is 300 seconds. <i>GRUASIMA</i> is of type SecondsThreshRange .
PERUP	Percent Utilization - Path, Ingress (Near End only). Default value is 85 percent. <i>PERUP</i> is of type Percentage .
PERUPE	Percent Utilization - Path, Egress (Near End only). Default value is 85 percent. <i>PERUPE</i> is of type Percentage .
DESC	A string description of this object, up to 11 characters in length. <i>DESC</i> is a String.

Input Example

```
ENT-GOS-IMA:SYS1:3:324::NEND,15-
MIN:GRFC=130,GRUASIMA=150,PERUP=85,PERUPE=85,
DESC="IMA GOS VER3";
```

Errors

This message generates all of the [Default Errors](#).

ENT-GOS-IMALINK

Name

ENT-GOS-IMALINK: Enter Grade of Service IMALINK

Description

Category: Performance Monitoring

Security: Memory Admin - by rate

This command is used to set the threshold values for a set of performance parameters called a Grade of Service (GOS). The particular GOS being set is identified by the integer in the AID field of this command. To use the set, it is referenced by the GOS parameter of the appropriate ENT-rr or ED-rr command.

The GOS sets are shared by all shelves in a system. Separate GOS sets are maintained for each facility type so the number assigned to a GOS for one facility type may also be assigned to another facility type's GOS without conflict.

Related Messages:

DLT-AP	DLT-AP-T1
DLT-GOS-AP	DLT-GOS-IMA
DLT-GOS-IMALINK	DLT-IMA
DLT-IMA-PORT	ED-AP
ED-GOS-AP	ED-GOS-IMA
ED-GOS-IMALINK	ED-IMA
ENT-AP	ENT-AP-T1
ENT-GOS-AP	ENT-GOS-IMA
ENT-IMA	ENT-IMA-PORT
INIT-REG-AP	INIT-REG-IMA
INIT-REG-IMALINK	REPT ALM AP
REPT ALM IMA	REPT ALM IMALINK
REPT EVT AP	REPT EVT IMA
REPT EVT IMALINK	REPT RMV AP
REPT RST AP	RMV-AP
RMV-IMA	RST-AP
RST-IMA	RTRV-ALM-AP
RTRV-ALM-IMA	RTRV-ALM-IMALINK
RTRV-AP	RTRV-COND-AP
RTRV-COND-IMA	RTRV-GOS-AP
RTRV-GOS-IMA	RTRV-GOS-IMALINK
RTRV-IMA	RTRV-PM-AP
RTRV-PM-IMA	RTRV-PM-IMALINK

Input Format

```
ENT-GOS-
IMALINK: [ TID ] :<GosAid> : [ CTAG ] :: <LOCN> , <TMPER> : [ [ IVIMA=<IVIMA> , ]
[ SESIMA=<SESIMA> , ] [ UASIMA=<UASIMA> , ] [ TXUUSIMA=<TXUUSIMA> , ]
[ RXUUSIMA=<RXUUSIMA> , ] [ TXFC=<TXFC> , ] [ RXFC=<RXFC> , ]
[ TXSTUFFIMA=<TXSTUFFIMA> , ] [ RXSTUFFIMA=<RXSTUFFIMA> , ] [ OIFIMA=<OIFIMA> , ]
[ DESC=<DESC> ] ;
```

Input Parameters

GosAid	Grade of Service Access Identifier. The address of the IMA Group Grade of Service table entry. <i>GosAid</i> is the AID GosProvAid .
LOCN	Location. This parameter indicates whether the near end or far end PM threshold values are being provisioned. <i>LOCN</i> is of type Location .
TMPER	Time Period. This parameter specifies the accumulation time period for the PM information. <i>TMPER</i> is of type PMPPeriod .
IVIMA	ICP Violations. Count of errored, invalid, or missing ICP cells, except during seconds where a SES-IMA or UAS-IMA condition is reported (Near End only). Default threshold for 15MIN interval is 15 seconds. Default threshold for 1 DAY interval is

150 seconds. *IVIMA* is of type [SecondsThreshRange](#).

SESIMA	Severely Errored Seconds. Count of 1-second intervals containing >= 30% of the ICP cells counted as IV-IMAs, or one or more near-end link defects (facility, LIF, or LODS) during non-UAS-IMA intervals. The number of IV-IMA counts required to meet the 30% criteria will depend on the facility line rate and the IMA frame size (M). Default threshold for 15MIN interval is 15 seconds. Default threshold for 1 DAY interval is 150 seconds. <i>SESIMA</i> is of type SecondsThreshRange .
UASIMA	Unavailable seconds at NE. The NE unavailability begins at the onset of 10 contiguous SES-IMA including the first 10 seconds to enter the UAS-IMA condition, and ends at the onset of 10 contiguous second with no SES-IMA, excluding the last 10 seconds to exit the UAS-IMA condition. Default threshold for 15MIN interval is 15 seconds. Default threshold for 1 DAY interval is 150 seconds. <i>UASIMA</i> is of type SecondsThreshRange .
TXUUSIMA	Transit Unusable Seconds (Near End only). Count of Tx Unusable seconds at the Tx NE Link State Machine (LSM). Default threshold for 15MIN interval is 15 seconds. Default threshold for 1 DAY interval is 150 seconds. <i>TXUUSIMA</i> is of type SecondsThreshRange .
RXUUSIMA	Receive Unusable Seconds (Near End only). Count of Rx Unusable seconds at the Rx NE LSM. Default threshold for 15MIN interval is 15 seconds. Default threshold for 1 DAY interval is 150 seconds. <i>RXUUSIMA</i> is of type SecondsThreshRange .
TXFC	Transit Failure Count. Count of the number of NE Transmit Link failure alarm entrances. The possible NE Tx link failure alarm conditions are: Tx-Mis-Connected and Tx-Fault. Default threshold for 15MIN interval is 15 seconds. Default threshold for 1 DAY interval is 150 seconds. <i>TXFC</i> is of type SecondsThreshRange .
RXFC	Receive Failure Count. Count of the number of NE Receive Link failure alarm entrances. The possible NE Rx link failure alarm conditions are: LIF, LODS, and Rx-Fault. Default threshold for 15MIN interval is 15 seconds. Default threshold for 1 DAY interval is 150 seconds. <i>RXFC</i> is of type SecondsThreshRange .
TXSTUFFIMA	Transmit Stuff Events (Near End only). Count of stuff events inserted in the transmitted direction. Default value is 0. <i>TXSTUFFIMA</i> is of type ImaLinkStuff .
RXSTUFFIMA	Receive Stuff Events (Near End only). Count of stuff events inserted in the receive direction, except during SES-IMA and UAS-IMA conditions. Default value is 0. <i>RXSTUFFIMA</i> is of type ImaLinkStuff .
OIFIMA	Out of IMA Frame (Near End only). Count of OIF anomalies except during SES-IMA or UAS-IMA conditions. Default threshold for 15MIN interval is 15 seconds. Default threshold for 1 DAY interval is 150 seconds. <i>OIFIMA</i> is of type SecondsThreshRange .
DESC	A string description of this object, up to 11 characters in length. <i>DESC</i> is a String.

Input Example

```
ENT-GOS-IMALINK:SYS1:3:324::NEND,15-
MIN:IVIMA=100,SESIMA=100,UASIMA=10,
TXUUSIMA=10,RXUUSIMA=10,TXFC=50,RXFC=50,TXSTUFFIMA=50,RXSTUFFIMA=50,
OIFIMA=100,DESC="IMA LINK VER 3";
```

Errors

This message generates all of the [Default Errors](#).

ENT-GOS-ONT

Name

ENT-GOS-ONT: Enter Grade of Service Optical Network Termination

Description

Category: Performance Monitoring

Security: Memory Admin - by rate

This command is used to set the threshold values for a set of performance parameters called a Grade of Service (GOS). The particular GOS being set is identified by the integer in the AID field of this command. To use the set, it is referenced by the GOS parameter of the appropriate ENT-rr or ED-rr command.

The GOS sets are shared by all shelves in a system. Separate GOS sets are maintained for each facility type so the number assigned to a GOS for one facility type may also be assigned to another facility type's GOS without conflict.

This command is not available in release 5.1

Related Messages:

[DLT-AVO](#)
[DLT-IG-VDS1](#)
[DLT-PROF-ONT](#)
[DLT-VCG](#)
[ED-AVO](#)
[ED-ONT](#)
[ED-RFVID](#)
[ED-VRP](#)
[ENT-IG-VDS1](#)
[ENT-PROF-ONT](#)
[ENT-VCG](#)
[INIT-ONT-UA](#)
[REPT ALM AVO](#)
[REPT ALM RFVID](#)
[REPT ALM VRP](#)
[REPT RMV AVO](#)
[REPT RMV RFVID](#)
[REPT RST ONT](#)
[RMV-AVO](#)

[DLT-GOS-ONT](#)
[DLT-ONT](#)
[DLT-RFVID](#)
[DLT-VRP](#)
[ED-GOS-ONT](#)
[ED-PROF-ONT](#)
[ED-VCG](#)
[ENT-AVO](#)
[ENT-ONT](#)
[ENT-RFVID](#)
[ENT-VRP](#)
[INIT-REG-ONT](#)
[REPT ALM ONT](#)
[REPT ALM VCG](#)
[REPT EVT ONT](#)
[REPT RMV ONT](#)
[REPT RST AVO](#)
[REPT RST RFVID](#)
[RMV-ONT](#)

RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
ENT-GOS-
ONT:[TID]:<GosAid>:[CTAG]::<LOCN>,<TMPER>:[ [BIP8=<BIP8>,[BES=<BES>,
[SES=<SES>,[UAS=<UAS>,[MISSING=<MISSING>,[MES=<MES>,[DESC=<DESC>]];
```

Input Parameters

GosAid *GosAid* is the AID [GosProvAid](#).

LOCN Location. This parameter indicates whether the near end or far end PM threshold values are being provisioned. *LOCN* is of type [Location](#).

TMPER Time Period. This parameter specifies the accumulation time period for the PM information. *TMPER* is of type [PMPPeriod](#).

BIP8 BIP8 errors detected on PON transport. NE is OLT detected, FE is ONT detected *BIP8* is a Integer.

BES Number of seconds during the period when a BIP8 error was detected. For the FE case, the granularity is 5 seconds rather than 1 second. *BES* is a Integer.

SES For NEND this is the count of seconds where either the BIP8 count has exceeded a threshold or where the number of missing bursts equals the number of possible bursts for the ONT.

For FEND this is the count of seconds where the BIP8 count has exceeded a threshold. For the FE case the granularity is 5 seconds rather than 1 second. *SES* is a Integer.

UAS This is defined a N consecutive SES. Once unavailable, N consecutive seconds must pass without SES before coming available again. In the FEND case this is a 5 second granularity rather than 1 second. *UAS* is a Integer.

MISSING Count of missed bursts (no received traffic from ONT in allocated timeslot). NEND Only. *MISSING* is a Integer.

MES Number of seconds during the period when a missing error was detected. NEND only. *MES* is a Integer.

DESC DESCription. A user-settable description field, up to 31 characters. *DESC* is a String.

Input Example

```
ENT-GOS-ONT:SYS1:3:324::NEND,15-
MIN:BIP8=2,BES=3,SES=3,UAS=3,MISSING=2,MES=3,
DESC="PON GOS 3";
```

Errors

This message generates all of the [Default Errors](#).

ENT-GOS-T1

Name

ENT-GOS-T1: Enter Grade of Service Digital Signal One

Description

Category: Performance Monitoring

Security: Memory Admin - by rate

This command is used to set the threshold values for a set of performance parameters called a Grade of Service (GOS). The particular GOS being set is identified by the integer in the AID field of this command. To use the set, it is referenced by the GOS parameter of the appropriate ENT-rr or ED-rr command.

The GOS sets are shared by all shelves in a system. Separate GOS sets are maintained for each facility type so the number assigned to a GOS for one facility type may also be assigned to another facility type's GOS without conflict.

Defined in GR-199.

Related Messages:

[DLT-AP-T1](#)
[DLT-GOS-T1](#)
[ED-GOS-T1](#)
[ENT-AP-T1](#)
[ENT-T1](#)
[OPR-LPBK-T1](#)
[REPT EVT T1](#)
[REPT RST T1](#)
[RMV-T1](#)
[RTRV-ALM-T1](#)

[DLT-CRS-T1](#)
[DLT-T1](#)
[ED-T1](#)
[ENT-CRS-T1](#)
[INIT-REG-T1](#)
[REPT ALM T1](#)
[REPT RMV T1](#)
[RLS-LPBK-T1](#)
[RST-T1](#)
[RTRV-COND-T1](#)

[RTRV-CRS-T1](#)
[RTRV-PM-T1](#)

[RTRV-GOS-T1](#)
[RTRV-T1](#)

Input Format

```
ENT-GOS-
T1:[TID]:<GosAid>:[CTAG]::<LOCN>, <TMPER>:[ [ CVP=<CVP>, ][ ESP=<ESP>, ]
[ SESP=<SESP>, ][ SASP=<SASP>, ][ CSSP=<CSSP>, ][ UASP=<UASP>, ][ CVL=<CVL>, ]
[ ESL=<ESL>, ][ SESL=<SESL>, ][ PERUP=<PERUP>, ][ PERUPE=<PERUPE>, ][ DESC=<DESC> ] ]
;
```

Input Parameters

- GosAid** Grade of Service Access Identifier. The address of the T1 port Grade of Service table entry. *GosAid* is the AID [GosProvAid](#).
- LOCN** Location. This parameter indicates whether the near end or far end PM threshold values are being provisioned. *LOCN* is of type [Location](#).
- TMPER** Time Period. This parameter specifies the accumulation time period for the PM information. *TMPER* is of type [PMPeriod](#).
- CVP** Coding Violations Threshold Path. The threshold value for the coding violations for the path. The default threshold for 15-MIN is 13,296 and for 1-DAY is 132,960. *CVP* is of type [CVThreshRange](#). The default value is "13296".
- ESP** Errored Seconds Threshold Path. The threshold value for the errored seconds for the path. The default threshold for 15-MIN is 65 and for 1-DAY is 648. *ESP* is of type [SecondsThreshRange](#). The default value is "65".
- SESP** Severely Errored Seconds Threshold Path. The threshold value for the severely errored seconds for the path. The default threshold for 15-MIN is 10 and for 1-DAY is 100. *SESP* is of type [SecondsThreshRange](#). The default value is "10".
- SASP** Severely Errored Framing/Alarm Indication Signal Second Count. The threshold value for the severely errored framing/alarm indication signal second count. The default threshold for 15-MIN is 2 and for 1-DAY is 17. *SASP* is of type [SecondsThreshRange](#). The default value is "2".
- CSSP** Controlled Slip Seconds Path. The threshold value for the controlled slip seconds path. The default threshold for 15-MIN is 1 and for 1-DAY is 4. *CSSP* is of type [SecondsThreshRange](#). The default value is "1".
- UASP** Unavailable Seconds Threshold Path. The threshold value for the unavailable seconds for the path. The default threshold for 15-MIN is 10 and for 1-DAY is 4. *UASP* is of type [SecondsThreshRange](#). The default value is "10".
- CVL** Coding Violations Threshold Line. The threshold value for the coding violations for the line. The default threshold for 15-MIN is 13,340 and for 1-DAY is 133,400. *CVL* is of type [CVThreshRange](#). The default value is "13340".
- ESL** Errored Seconds Threshold Line. The threshold value for the errored seconds for the line. The default threshold for 15-MIN is 65 and for 1-DAY is 648. *ESL* is of type [SecondsThreshRange](#). The default value is "65".
- SESL** Severely Errored Seconds Threshold Line. The threshold value for the severely errored seconds for the line. The default threshold for 15-MIN is 10 and for 1-DAY is 100. *SESL* is

of type [SecondsThreshRange](#). The default value is "10".

- PERUP** Percent Utilization - Path, Ingress (Near End only). *PERUP* is of type [Percentage](#). The default value is "85".
- PERUPE** Percent Utilization - Path, Egress (Near End only). *PERUPE* is of type [Percentage](#). The default value is "85".
- DESC** A string description of this object, up to 11 characters in length. *DESC* is a String.

Input Example

```
ENT-GOS-T1:SYS1:3:324::NEND,15-
MIN:CVP=13296,ESP=65,SESP=10,SASP=2,CSSP=1,
    UASP=10,CVL=13340,ESL=65,SESL=10,PERUP=85,PERUPE=85,DESC="GOS
VERS 3";
```

Errors

This message generates all of the [Default Errors](#).

ENT-GOS-T3

Name

ENT-GOS-T3: Enter Grade of Service Digital Signal 3

Description

Category: Performance Monitoring

Security: Memory Admin - by rate

This command is used to set the threshold values for a set of performance parameters called a Grade of Service (GOS). The particular GOS being set is identified by the integer in the AID field of this command. To use the set, it is referenced by the GOS parameter of the appropriate ENT-rr or ED-rr command.

The GOS sets are shared by all shelves in a system. Separate GOS sets are maintained for each facility type so the number assigned to a GOS for one facility type may also be assigned to another facility type's GOS without conflict.

Defined in GR-199.

Related Messages:

[DLT-GOS-T3](#)

[ED-GOS-T3](#)

[ENT-T3](#)

[OPR-LPBK-T3](#)

[DLT-T3](#)

[ED-T3](#)

[INIT-REG-T3](#)

[REPT ALM T3](#)

[REPT EVT T3](#)
[REPT RST T3](#)
[RMV-T3](#)
[RTRV-ALM-T3](#)
[RTRV-GOS-T3](#)
[RTRV-T3](#)

[REPT RMV T3](#)
[RLS-LPBK-T3](#)
[RST-T3](#)
[RTRV-COND-T3](#)
[RTRV-PM-T3](#)

Input Format

```
ENT-GOS-
T3:[TID]:<GosAid>:[CTAG]::<LOCN>,<TMPER>:[ [ CVP=<CVP> , ] [ ESP=<ESP> , ]
[ SASP=<SASP> , ] [ SESP=<SESP> , ] [ UASP=<UASP> , ] [ CVL=<CVL> , ] [ ESL=<ESL> , ]
[ SESL=<SESL> , ] [ PERUP=<PERUP> , ] [ PERUPE=<PERUPE> , ] [ DESC=<DESC> ] ] ;
```

Input Parameters

- GosAid** Grade of Service Access Identifier. The address of the T3 port Grade of Service table entry. *GosAid* is the AID [GosProvAid](#).
- LOCN** Location. This parameter indicates whether the near end or far end PM threshold values are being provisioned. *LOCN* is of type [Location](#).
- TMPER** Time Period. This parameter specifies the accumulation time period for the PM information. *TMPER* is of type [PMPeriod](#).
- CVP** Coding Violations Threshold Path. The threshold value for the coding violations for the path. The default threshold for 15-MIN is 13,296 and for 1-DAY is 132,960. For C-bit parity applications, this parameter sets the threshold for both CVP-P and CVCP-P. *CVP* is of type [CVThreshRange](#). The default value is "382".
- ESP** Errored Seconds Threshold Path. The threshold value for the errored seconds for the path. The default threshold for 15-MIN is 65 and for 1-DAY is 648. For C-bit parity applications, this parameter sets the threshold for both ESP-P and ESCP-P. *ESP* is of type [SecondsThreshRange](#). The default value is "25".
- SASP** Severely Errored Framing/Alarm Indication Signal Second Count. The threshold value for the severely errored framing/alarm indication signal second count. The default threshold for 15-MIN is 2 and for 1-DAY is 17. For C-bit parity applications, this parameter sets the threshold for both SASP-P and SASCP-P. *SASP* is of type [SecondsThreshRange](#). The default value is "4".
- SESP** Severely Errored Seconds Threshold Path. The threshold value for the severely errored seconds for the path. The default threshold for 15-MIN is 10 and for 1-DAY is 100. For C-bit parity applications, this parameter sets the threshold for both SESP-P and SESCP-P. *SESP* is of type [SecondsThreshRange](#). The default value is "2".
- UASP** Unavailable Seconds Threshold Path. The threshold value for the unavailable seconds for the path. The default threshold for 15-MIN is 10 and for 1-DAY is 10. For C-bit parity applications, this parameter sets the threshold for both UASP-P and UASCP-P. *UASP* is of type [SecondsThreshRange](#). The default value is "10".
- CVL** Coding Violations Threshold Line. The threshold value for the coding violations for the line. The default threshold for 15-MIN is 13,340 and for 1-DAY is 133,400. This parameter does not apply to far end provisioning. *CVL* is of type [CVThreshRange](#). The default value is

"387".

- ESL** Errored Seconds Threshold Line. The threshold value for the errored seconds for the line. The default threshold for 15-MIN is 65 and for 1-DAY is 648. This parameter does not apply to far end provisioning. *ESL* is of type [SecondsThreshRange](#). The default value is "25".
- SESL** Severely Errored Seconds Threshold Line. The threshold value for the severely errored seconds for the line. The default threshold for 15-MIN is 10 and for 1-DAY is 100. This parameter does not apply to far end provisioning. *SESL* is of type [SecondsThreshRange](#). The default value is "4".
- PERUP** Percent Utilization - Path, Ingress (Near End only). *PERUP* is of type [Percentage](#). The default value is "85".
- PERUPE** Percent Utilization - Path, Egress (Near End only). *PERUPE* is of type [Percentage](#). The default value is "85".
- DESC** A string description of this object, up to 11 characters in length. *DESC* is a String.

Input Example

```
ENT-GOS-T3:SYS1:3:324::NEND,15-
MIN:CVP=382,ESP=25,SASP=4,SESP=2,UASP=10,
CVL=387,ESL=25,SESL=4,PERUP=85,PERUPE=85,DESC="GOS VERS 3";
```

Errors

This message generates all of the [Default Errors](#).

ENT-GR303

Name

ENT-GR303: Enter GR303

Description

Category: TDM Services **Security:** Memory Admin - full

This command provisions a new GR-303 Interface Group on the specified node.

Defined by Calix.

Related Messages:

[ALW-Swdx-GR303](#)

[DLT-CRS-T0](#)

[ALW-Swdx-T1TG](#)

[DLT-GR303](#)

DLT-GR8	DLT-IG-DS1
DLT-T1TG	ED-GR303
ED-GR8	ENT-CRS-T0
ENT-GR8	ENT-IG-DS1
ENT-T1TG	INH-Swdx-GR303
INH-Swdx-T1TG	REPT ALM GR303
REPT ALM T1TG	REPT EVT GR303
REPT EVT T1TG	REPT SW GR303
REPT SW T1TG	RTRV-ALM-GR303
RTRV-ALM-T1TG	RTRV-COND-GR303
RTRV-COND-T1TG	RTRV-CRS-T0
RTRV-DLSTAT-GR303	RTRV-DLSTAT-T1TG
RTRV-GR303	RTRV-GR8
RTRV-IG-DS1	RTRV-T1TG
SW-DX-GR303	SW-DX-T1TG

Input Format

```
ENT-GR303:[TID]:<IgAid>:[CTAG]:::PRIOP=<PRIOP>, [SECOP=<SECOP>]
,SWTYPE=<SWTYPE>, [[T308=<T308>,][T303=<T303>],[T396=<T396>],[T397=<T397>,
][EOCALARM=<EOCALARM>],[EOCUPSST=<EOCUPSST>],[FLOWTHROUGH=<FLOWTHROUGH>]];
```

Input Parameters

IgAid	GR-303 Interface Group Access Identifier. This is the address of the GR-303 Interface Group which is being created. <i>IgAid</i> is the AID IgAid .
PRIOP	Primary Operations Processor. This parameter identifies the primary Operations Processor which will terminate the EOC channel. This must be a Maintenance/Administration Slot (MS). <i>PRIOP</i> is the AID MsNoneAid .
SECOP	Secondary Operations Processor. This parameter identifies the Secondary Operations Processor which will terminate the EOC channel. This must be a Maintenance/Administration Slot (MS). <i>SECOP</i> is the AID MsNoneAid . The default value is "NONE".
SWTYPE	Switch Type. The parameter indicate the type of switch which the GR-303 interface group will be connected to. <i>SWTYPE</i> is of type SwitchType .
T308	Timer 308. This parameter specifies the maximum length of time in seconds the RDT will wait for a reply to a RELEASE message. <i>T308</i> is of type T308 . The default value is "4".
T303	T303 Timer. The parameter identifies the timer used at Layer 3 for the TMC and defines the maximum length of time in milliseconds that the RDT will wait for a reply to a SETUP message. <i>T303</i> is of type T303 . The default value is "700".
T396	T396 Timer. This parameter specifies the length of time in milliseconds that the RDT will wait for a reply to a SETUP message following the initial expiration of time T303. <i>T396</i> is of type T396 . The default value is "14700".

T397	T397 Timer. This parameter specifies the maximum length of time in seconds the RDT will wait for the IDT to acknowledge an INFORMATION message that indicated that a customer who had been generating a permanent signal has returned on-hook. <i>T397</i> is of type T397 . The default value is "120".
EOCALARM	EOC Alarms. This parameter indicates which alarms are to be reported through the EOC interface. The EOC can report alarms for either the shelf IG, the entire network, or no alarms at all. <i>EOCALARM</i> is of type EOCALarmReport . The default value is "NETWORK".
EOCUPSST	EOC Up Send Service States. When the EOC link is down, any service state changes are not reported to the switch. Some switches, such as the DMS100, do not audit the CRVs when the EOC link comes up, so the switch continues to have the incorrect service state. This can result in the switch thinking that a CRV is down so no traffic is able to be carried. When set to "Y", this parameter will send service state notifications for all provisioned CRVs when the EOC link comes up. For SWTYPE DMS100, EOCUPSST defaults to "Y". <i>EOCUPSST</i> is of type BoolYN . The default value is "N".
FLOWTHROUGH	Flow through provisioning (also referred to as 'RDT provisioning'). This is a provisionable option that exists in a Class-5 switch which when enabled causes the switch to send provisioning messages over the EOC of a given GR303 interface group for the purposes of managing analogLineTerminations in the RDT. The switch will Create, Delete, Remove from Service, and audit each CRV in the RDT when this option is enabled. The RDT needs to be aware of how this option is set in the switch for the purposes of issuing service state notifications. If an analogLineTermination is not 'switch created' and flow through provisioning is enabled, then the RDT should not issue any service state notifications to the switch for that line. If flow through provisioning is disabled, then the RDT should always issue service state notifications for all lines. <i>FLOWTHROUGH</i> is of type BoolYN . The default value is "N".

Input Example

```
ENT-GR303:SYS1:N3-4-IG3:322:::PRIOP=N3-2-
MS , SECOP=None , SWTYPE=DMS100 , T308=4 ,
T303=700 , T396=14700 , T397=120 , EOCALARM=NETWORK , EOCUPSST=N , FLOWTHROUGH=N ;
```

Errors

This message generates all of the [Default Errors](#).

ENT-GR8

Name

ENT-GR8: Enter GR8

Description

Category: TDM Services

Security: Memory Admin - by rate

This command provisions a new GR-8 Interface Group on the specified shelf.

Defined by Calix.

Related Messages:

[ALW-Swdx-GR303](#)

[DLT-CRS-T0](#)

[DLT-GR8](#)

[DLT-T1TG](#)

[ED-GR8](#)

[ENT-GR303](#)

[ENT-T1TG](#)

[INH-Swdx-T1TG](#)

[REPT ALM T1TG](#)

[REPT EVT T1TG](#)

[REPT SW T1TG](#)

[RTRV-ALM-T1TG](#)

[RTRV-COND-T1TG](#)

[RTRV-DLSTAT-GR303](#)

[RTRV-GR303](#)

[RTRV-IG-DS1](#)

[SW-DX-GR303](#)

[ALW-Swdx-T1TG](#)

[DLT-GR303](#)

[DLT-IG-DS1](#)

[ED-GR303](#)

[ENT-CRS-T0](#)

[ENT-IG-DS1](#)

[INH-Swdx-GR303](#)

[REPT ALM GR303](#)

[REPT EVT GR303](#)

[REPT SW GR303](#)

[RTRV-ALM-GR303](#)

[RTRV-COND-GR303](#)

[RTRV-CRS-T0](#)

[RTRV-DLSTAT-T1TG](#)

[RTRV-GR8](#)

[RTRV-T1TG](#)

[SW-DX-T1TG](#)

Input Format

```
ENT-
GR8:[TID]:<SlotIgAid>:[CTAG]:::IGMODE=<IGMODE>, [[SWTYPE=<SWTYPE>, ]
[ALMBITS=<ALMBITS>]];
```

Input Parameters

SlotIgAid GR-8 Interface Group Access Identifier. This is the address of the GR-8 Interface Group which is being created. *SlotIgAid* is the AID [SlotIgAid](#).

IGMODE Interface Group MODE (concentrated or non-concentrated). *IGMODE* is of type [IgMode](#).

SWTYPE Switch Type. The parameter indicate the type of switch which the GR-8 interface group will be connected to. *SWTYPE* is of type [SwitchType](#).

ALMBITS Number of ALarM BITS. *ALMBITS* is of type [Gr8AlmBits](#). The default value is "16".

Input Example

```
ENT-GR8::N1-1-4-IG1:45:::IGMODE=MODE1,SWTYPE=5ESS,ALMBITS=16;
```

Errors

This message generates all of the [Default Errors](#).

ENT-H248

Name

ENT-H248: Enter H248

Description

Category: VOIP **Security:** Memory Admin - by rate

This command provisions a new H.248 Interface Group on the specified shelf.

Defined by Calix.

Related Messages:

[DLT-H248](#)

[DLT-VSP](#)

[ED-VSP](#)

[ENT-VSP](#)

[RTRV-ALM-H248](#)

[RTRV-H248](#)

[RTRV-VSP](#)

[DLT-IG-VSP](#)

[ED-H248](#)

[ENT-IG-VSP](#)

[REPT ALM H248](#)

[RTRV-COND-H248](#)

[RTRV-IG-VSP](#)

Input Format

```
ENT-H248:[TID]:<IgAid>:[CTAG]:::SWTYPE=<SWTYPE>,[[MGIP=<MGIP>,]
[MG2IP=<MG2IP>,][MGUDP=<MGUDP>],[MGC1IP=<MGC1IP>],[MGC1UDP=<MGC1UDP>,>
[MGC1IKE=<MGC1IKE>],[MGC2IP=<MGC2IP>],[MGC2UDP=<MGC2UDP>,>
[MGC2IKE=<MGC2IKE>],[MGC2SWTYPE=<MGC2SWTYPE>],[MGC2ESA=<MGC2ESA>,>
[TERMPREFIX=<TERMPREFIX>],[TMAX=<TMAX>],[MWD=<MWD>,>
[EPHEMAUDITDELAY=<EPHEMAUDITDELAY>],[FIRSTDIGWAIT=<FIRSTDIGWAIT>,>
[LONGDIGWAIT=<LONGDIGWAIT>],[SHORTDIGWAIT=<SHORTDIGWAIT>,>
[LONGDIGDUR=<LONGDIGDUR>],[MINFLASH=<MINFLASH>],[MAXFLASH=<MAXFLASH>,>
[MAXACTCALLS=<MAXACTCALLS>],[RFC2833MODE=<RFC2833MODE>]]:[<PST>];
```

Input Parameters

IgAid	IG number within a shelf. <i>IgAid</i> is the AID IgAid .
SWTYPE	SWitch TYPE The parameter indicate the type of switch which the H.248 interface group will be connected to. <i>SWTYPE</i> is of type H248SwitchType .
MGIP	Media Gateway's IP address for control message transport. <i>MGIP</i> is the AID IpAid . The default value is "0.0.0.0".
MG2IP	Secondary MGC IP address for control message transport. <i>MG2IP</i> is the AID IpAid . The default value is "0.0.0.0".
MGUDP	<i>MGUDP</i> is a Integer. The default value is "2944".
MGC1IP	Primary Media Gateway Controller's IP address. <i>MGC1IP</i> is the AID IpAid . The default value is "0.0.0.0".
MGC1UDP	<i>MGC1UDP</i> is a Integer. The default value is "2944".
MGC1IKE	<i>MGC1IKE</i> is the AID IkeProfAidNone . The default value is "NONE".
MGC2IP	Secondary Media Gateway Controller's IP address. A value of 0.0.0.0 indicates there is none. <i>MGC2IP</i> is the AID IpAid . The default value is "0.0.0.0".
MGC2UDP	<i>MGC2UDP</i> is a Integer. The default value is "2944".
MGC2IKE	<i>MGC2IKE</i> is the AID IkeProfAidNone . The default value is "NONE".
MGC2SWTYPE	Secondary MGC Switch Type. <i>MGC2SWTYPE</i> is of type H248SwitchType . The default value is "NONE".
MGC2ESA	This parameter indicates whether the secondary MGC is ESA <i>MGC2ESA</i> is of type BoolYN . The default value is "N".
TERMPREFIX	Prefix on Termination Ids. This is a string of up to 11 characters. <i>TERMPREFIX</i> is a String. The default value is "TP".
TMAX	Maximum delay in seconds between first transmission and final retransmission of a message before declaring a communication failure with the MGC. A value of 0 for TMAX disables the declaring of a MGC communication failure due to a message timeout, including a timeout waiting for a heartbeat message. <i>TMAX</i> is a Integer. The default value is "30".
MWD	Maximum delay in seconds [0,60] before announcing MG presence to MGC. <i>MWD</i> is a Integer. The default value is "30".
EPHEMAUDITDELAY	The number of seconds between repetitions of reporting of a stranded "ephemeral termination" (Network trunk). The value should be in the range 0-3600. The value 0 indicates that the audit is not to be performed. <i>EPHEMAUDITDELAY</i> is a Integer. The default value is "0".
FIRSTDIGWAIT	Default number of seconds to wait for the start of dialing. The valid range is 0-60 (0 disables the timer). <i>FIRSTDIGWAIT</i> is a Integer. The default value is "16".
LONGDIGWAIT	Default value in seconds of the long inter-digit timer. The valid range is 1-60. <i>LONGDIGWAIT</i> is a Integer. The default value is "16".
SHORTDIGWAIT	Default value in seconds of the short inter-digit timer. The valid range is 1-60. <i>SHORTDIGWAIT</i> is a Integer. The default value is "5".

LONGDIGDUR	Default minimum duration, in seconds, of a long digit event. The valid range is 1-60. <i>LONGDIGDUR</i> is a Integer. The default value is "20".
MINFLASH	Default minimum on-hook duration in milliseconds for a flash. The value range is 100-4900. <i>MINFLASH</i> is a Integer. The default value is "500".
MAXFLASH	Default maximum on-hook duration in milliseconds for a flash. The value range is 100-4900. <i>MAXFLASH</i> is a Integer. The default value is "1500".
MAXACTCALLS	Maximum number of concurrent calls (up to 384) for this IG. <i>MAXACTCALLS</i> is a Integer.
RFC2833MODE	If 'Y', the H248 IG will use the RFC-2833 protocol during call control. The setting of this parameter controls the interface to both the Primary and Secondary MGCs. <i>RFC2833MODE</i> is of type BoolYN . The default value is "N".
PST	Primary service state, controls communication with the MGC. <i>PST</i> is of type PrimaryStateChg . The default value is "OOS".

Input Example

```
ENT-H248:SYS:N3-2-IG1:234:::SWTYPE=CS2K,MGIP=172.22.90.101,
MG2IP=172.22.110.101,MGUDP=2994,MGC1IP=68.100.3.99,MGC1UDP=2944,
MGC1IKE=NONE,MGC2IP=68.100.4.99,MGC2UDP=2944,MGC2IKE=NONE,MGC2SWTYPE=CS2K,
MGC2ESA=N,TERMPREFIX=TP,TMAX=30,MWD=30,EPHEMAUDITDELAY=0,FIRSTDIGWAIT=16,
LONGDIGWAIT=16,SHORTDIGWAIT=5,LONGDIGDUR=1,MINFLASH=500,MAXFLASH=1500,
MAXACTCALLS=255,RFC2833MODE=N:OOS;
```

Errors

This message generates all of the [Default Errors](#).

ENT-HDSL

Name

ENT-HDSL: Enter High bit rate Digital Subscriber Line

Description

Category: HDSL Facility **Security:** Memory Admin - by rate

This command creates an HDSL port within the system. The parameters provided within the command define the type of services which will be provided by the HDSL port and transported T1.

Follows GR-199.

Related Messages:

DLT-GOS-HDSL	DLT-HDSL
ED-GOS-HDSL	ED-HDSL
ENT-GOS-HDSL	INIT-HDSL
INIT-REG-HDSL	OPR-LPBK-HDSL
REPT ALM HDSL	REPT EVT HDSL
REPT RMV HDSL	REPT RST HDSL
RLS-LPBK-HDSL	RMV-HDSL
RST-HDSL	RTRV-ALM-HDSL
RTRV-COND-HDSL	RTRV-CSTAT-HDSL
RTRV-GOS-HDSL	RTRV-HDSL
RTRV-HTU	RTRV-PM-HDSL

Input Format

```
ENT-
HDSL:[TID]:<HdslAid>:[CTAG]:::[LINETYPE=<LINETYPE>,][T1MAP=<T1MAP>,]
[FMT=<FMT>,[TERM=<TERM>,[SNRTHR=<SNRTHR>,[ATTHR=<ATTHR>,[PWR=<PWR>,
[GOS=<GOS>,[TMGMODE=<TMGMODE>,[DESC=<DESC>]]:[<PST>],[<SS>];
```

Input Parameters

HdslAid	HDSL Port Access Identifier. The address of the HDSL port being entered. <i>HdslAid</i> is the AID SixPortLuAid .
LINETYPE	HDSL Line Type: 2- or 4-wire mode. In 4-wire mode, two consecutive port addresses are required for one HDSL port. <i>LINETYPE</i> is of type HdslLineType . The default value is "2WIRE".
T1MAP	MAPping of the T1 payload signal. When payload signal is a form that may be altered at the port, this parameter specifies the mapping. Otherwise, its value should be NA. <i>T1MAP</i> is of type T1MapHdsl . The default value is "NA".
FMT	DS1 Format. This parameter indicates DS1 signal format. <i>FMT</i> is of type FormatSignal . The default value is "UF".
TERM	TERMinal Unit Type <i>TERM</i> is of type HdslTermType . The default value is "COT".
SNRTHR	Signal-to-Noise Margin Threshold (near-end), in dB. (0 == OFF) <i>SNRTHR</i> is of type SnrTargetMargins . The default value is "6".
ATTHR	Loop Attenuation Threshold (near-end), in dB. (0 == OFF) <i>ATTHR</i> is of type HdslLoopAttenThresh . The default value is "20".
PWR	Line PoWeRing. This parameter indicates whether the line is to supply power. <i>PWR</i> is of type T1Pwr . The default value is "SINK".
GOS	Grade of Service Access Identifier. This is the HDSL Grade of Service which is to be applied to the port. <i>GOS</i> is the AID GosAid . The default value is "OFF".
TMGMODE	Timing Mode. This parameter selects the timing source for the T1 port transmit signal. For T1MAP other than UNI or NNI, C7 will default TMGMODE to LOOP when FMT=UF, SOURCE otherwise. <i>TMGMODE</i> is of type T1TimingMode . The default value

is "LOOP".

DESC DESCription. A user-settable description field, up to 31 characters. *DESC* is a String.

PST Primary Service State. This is the service state which the user wants the entity to transition into. *PST* is of type [PrimaryStateChg](#). The default value is "IS".

SST Secondary Service State. The only secondary service state which is provisionable is SB. It only applies when the PST is OOS. *SST* is of type [SecondaryStateChgSB](#).

Input Example

```
ENT-HDSL:SYS3:N4-3-5-
2:123:::LINETYPE=2WIRE,T1MAP=NA,FMT=UF,TERM=COT,SNRTHR=6,
ATTTHR=50,PWR=SINK,GOS=OFF,TMGMODE=LOOP,DESC="DESCRIPTION":OOS,SB;
```

Errors

This message generates all of the [Default Errors](#).

ENT-IG-CRV

Name

ENT-IG-CRV: Enter Interface Group Call Reference Value

Description

Category: Deprecated **Security:** Memory Admin - by rate

This command is present for compatibility with previous releases of the C7 TL1 interface. The ENT-CRS-T0 command should now be used to create an association between the GR-303 interface call reference value and the physical address of the subscriber line. It is necessary to create an interface group and add at least one T1 to it before entering a cross connect to a CRV in the group. It is not necessary to issue an ENT-IG-CRV even if the switch has not 'created' the CRV.

If it is used, communication must exist between the AMP and both the GR-303 IG shelf and the shelf specified in the PLOCN.

Defined by Calix.

Related Messages:

[DLT-IG-CRV](#)

[RTRV-IG-CRV](#)

Input Format

```
ENT-IG-CRV:[TID]:<CrVAid>:[CTAG]::<PLOCN>;
```

Input Parameters

CrVAid Call Reference Value Access Identifier. This is the address of the call reference value of a subscriber line in a GR-303 interface group. *CrVAid* is the AID [CrVAid](#).

PLOCN Physical Location. The physical location of the subscriber line to be cross connected to the Call Reference Value within the C7 network. This input parameter is provided for compatibility with the release that did not support T1 transport. The ENT-CRS-T0 command should be used to establish this association. *PLOCN* is the AID [T0CrVAid](#).

Input Example

```
ENT-IG-CRV:SYS3:N3-1-IG3-34:342::N3-4-3-1;
```

Errors

This message generates all of the [Default Errors](#).

ENT-IG-CSHELF

Name

ENT-IG-CSHELF: Enter Interface Group Concentration Shelf

Description

Category: TDM Services **Security:** Memory Admin - by rate

This command is used to create an association between an Interface Group (GR303, T1TG RDT, or H248) and a POTS subscriber shelf.

Input Format

```
ENT-IG-CSHELF:[TID]:<IgAid>:[CTAG]::<SHELF>:NVDS1=<NVDS1>,
[CAPALMTHR=<CAPALMTHR>];
```

Input Parameters

IgAid The Interface Group AID. *IgAid* is the AID [IgAid](#).

SHELF	The associated subscriber shelf. <i>SHELF</i> is the AID ShelfAid .
NVDS1	The number of Virtual DS1s allocated for this association. This determines the call capacity for the IG to the associated shelf. <i>NVDS1</i> is a Integer.
CAPALMTHR	Call Capacity Alarm Threshold. If the number of active calls reaches or exceeds this percentage of total, an alarm is raised. <i>CAPALMTHR</i> is of type Percentage . The default value is "85".

Input Example

```
ENT-IG-CSHELF:SYS1:N1-4-IG2:CTAG::N3-2:NVDS1=2,CAPALMTHR=90;
```

Errors

This message generates all of the [Default Errors](#).

ENT-IG-DS1

Name

ENT-IG-DS1: Enter Interface Group Digital Signal 1

Description

Category: TDM Services **Security:** Memory Admin - by rate

This command creates an association between the GR-303, GR-8, or T1TG interface DS1 number and the physical address of the feeder DS1.

Defined by Calix.

Related Messages:

ALW-Swdx-GR303	ALW-Swdx-T1TG
DLT-CRS-T0	DLT-GR303
DLT-GR8	DLT-IG-DS1
DLT-T1TG	ED-GR303
ED-GR8	ENT-CRS-T0
ENT-GR303	ENT-GR8
ENT-T1TG	INH-Swdx-GR303
INH-Swdx-T1TG	REPT ALM GR303
REPT ALM T1TG	REPT EVT GR303
REPT EVT T1TG	REPT SW GR303

REPT SW T1TG	RTRV-ALM-GR303
RTRV-ALM-T1TG	RTRV-COND-GR303
RTRV-COND-T1TG	RTRV-CRS-T0
RTRV-DLSTAT-GR303	RTRV-DLSTAT-T1TG
RTRV-GR303	RTRV-GR8
RTRV-IG-DS1	RTRV-T1TG
SW-DX-GR303	SW-DX-T1TG

Input Format

ENT-IG-DS1:[TID]:<IgDs1Aid>:[CTAG]::<PLOCN>;

Input Parameters

IgDs1Aid Interface Group DS1 Access Identifier. The address of the DS1 Line Termination in an interface group. *IgDs1Aid* is the AID [IgDs1Aid](#).

PLOCN Physical Location. The physical location of the DS1 Line Termination within the C7 network. *PLOCN* is the AID [SixPortLuAid](#).

Input Example

ENT-IG-DS1:SYS3:N3-1-IG3-3:342::N3-4-5-6;

Errors

This message generates all of the [Default Errors](#).

ENT-IG-VDS1

Name

ENT-IG-VDS1: Enter Interface Group VDS1

Description

Category: TDM Services **Security:** Memory Admin - by rate

This command creates an association between the Voice Concentration Group interface DS1 number and the address of a "virtual DS1" on the VGP equipment.

Defined by Calix.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-ONT
ENT-PROF-ONT	ENT-RFVID
ENT-VCG	ENT-VRP
INIT-ONT-UA	INIT-REG-ONT
REPT ALM AVO	REPT ALM ONT
REPT ALM RFVID	REPT ALM VCG
REPT ALM VRP	REPT EVT ONT
REPT RMV AVO	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

ENT-IG-VDS1:[TID]:<IgDs1Aid>:[CTAG]::<PLOCN>;

Input Parameters

IgDs1Aid Interface Group DS1 Access Identifier. The address of the DS1 Line Termination in a VCG interface group. *IgDs1Aid* is the AID [IgDs1Aid](#).

PLOCN The "physical location" of the virtual DS1 port associated with the IG. *PLOCN* is the AID

[Vds1Aid.](#)

Input Example

```
ENT-IG-VDS1:SYS:N1-2-IG3-1:567::N1-2-7-V1;
```

Errors

This message generates all of the [Default Errors](#).

ENT-IG-VSP

Name

ENT-IG-VSP: Enter Interface Group Voice Signal Processor

Description

Category: TDM Services **Security:** Memory Admin - by rate

This command creates an association between the H.248 interface VSP number and the address of a VSP on a VIPR card.

Defined by Calix.

Related Messages:

[DLT-H248](#)

[DLT-IG-VSP](#)

[DLT-VSP](#)

[ED-H248](#)

[ED-VSP](#)

[ENT-H248](#)

[ENT-VSP](#)

[REPT ALM H248](#)

[RTRV-ALM-H248](#)

[RTRV-COND-H248](#)

[RTRV-H248](#)

[RTRV-IG-VSP](#)

[RTRV-VSP](#)

Input Format

```
ENT-IG-VSP:[TID]:<IgVspAid>:[CTAG]::<PLOCN>;
```

Input Parameters

IgVspAid The address of the VSP Termination in a H.248 interface group. *IgVspAid* is the AID

[IgVspAid.](#)

PLOCN The "physical location" of the VSP port associated with the IG. *PLOCN* is the AID [VspPortAid.](#)

Input Example

```
ENT-IG-VSP:SYS:N3-2-IG1-1:567::N3-2-7-1;
```

Errors

This message generates all of the [Default Errors.](#)

ENT-IGMP-JOIN

Name

ENT-IGMP-JOIN: Enter IGMP JOIN

Description

Category: IP **Security:** Memory Admin - by rate

ENT-IGMP-JOIN:used to support aggregating all EPG channels into a single VC for use by BPON OLT cards.

In this case the GE-2p must aggregate the specified EPG channels into a single VC for: -Transport to other C7 rings or - Delivery to the OLT cards on the same shelf as the GE-2p

This command is also used for mapping specific multicast traffic to VB port (Packet Services), to deliver the multicast video traffic to remote end point.

Related Messages:

[DLT-CVIDREG](#)

[DLT-IGMP-JOIN](#)

[DLT-MACHOST](#)

[DLT-VB](#)

[DLT-VBPORT](#)

[DLT-VLAN-VBPORT](#)

[DLT-VR](#)

[DLT-VRPORT](#)

[ED-CVIDREG](#)

[ED-IGMP](#)

[ED-MACHOST](#)

[ED-VB](#)

[ED-VBPORT](#)

[ED-VLAN-VBPORT](#)

[ED-VR](#)

[ENT-CVIDREG](#)

[ENT-MACHOST](#)

[ENT-VB](#)

[ENT-VBPORT](#)

[ENT-VLAN-VBPORT](#)

[ENT-VR](#)
[REPT ALM VB](#)
[REPT EVT VB](#)
[RTRV-ALM-VB](#)
[RTRV-CVIDREG](#)
[RTRV-IGMP-JOIN](#)
[RTRV-VB](#)
[RTRV-VLAN-VBPORT](#)
[RTRV-VRPORT](#)

[ENT-VRPORT](#)
[REPT ALM VR](#)
[REPT EVT VR](#)
[RTRV-ALM-VR](#)
[RTRV-IGMP](#)
[RTRV-MACHOST](#)
[RTRV-VBPORT](#)
[RTRV-VR](#)

Input Format

```
ENT-IGMP-
JOIN:[TID]:<IP>:[CTAG]:::IRCAID=<IRCAID>,L2IFAID=<L2IFAID>;
```

Input Parameters

- IP** IP address of the EPG channel or Multicast IP address for video. *IP* is the AID [IpAid](#).
- IRCAID** IrcAid - IRC slot *IRCAID* is the AID [SlotLuAid](#).
- L2IFAID** *L2IFAID* is the AID [VbPortAid](#).

Input Example

```
ENT-IGMP-JOIN:SYS2:192.168.1.1:76:::IRCAID=N1-1-9,L2IFAID=N1-2-
VB1-3;
```

Errors

This message generates all of the [Default Errors](#).

ENT-IMA

Name

ENT-IMA: Enter IMA

Description

Category: IMA Group **Security:** Memory Admin - by rate

This command provisions a new Inverse Multiplexing for ATM (IMA) Interface Group on the specified

node.

Related Messages:

DLT-AP	DLT-AP-T1
DLT-GOS-AP	DLT-GOS-IMA
DLT-GOS-IMALINK	DLT-IMA
DLT-IMA-PORT	ED-AP
ED-GOS-AP	ED-GOS-IMA
ED-GOS-IMALINK	ED-IMA
ENT-AP	ENT-AP-T1
ENT-GOS-AP	ENT-GOS-IMA
ENT-GOS-IMALINK	ENT-IMA-PORT
INIT-REG-AP	INIT-REG-IMA
INIT-REG-IMALINK	REPT ALM AP
REPT ALM IMA	REPT ALM IMALINK
REPT EVT AP	REPT EVT IMA
REPT EVT IMALINK	REPT RMV AP
REPT RST AP	RMV-AP
RMV-IMA	RST-AP
RST-IMA	RTRV-ALM-AP
RTRV-ALM-IMA	RTRV-ALM-IMALINK
RTRV-AP	RTRV-COND-AP
RTRV-COND-IMA	RTRV-GOS-AP
RTRV-GOS-IMA	RTRV-GOS-IMALINK
RTRV-IMA	RTRV-PM-AP
RTRV-PM-IMA	RTRV-PM-IMALINK

Input Format

```
ENT-IMA:[TID]:<ImaAid>:[CTAG]:::[ [IMAMAP=<IMAMAP>, ] [MLINKS=<MLINKS>, ]
[XDIFDLY=<XDIFDLY>, ][INH=<INH>, ][FRMLEN=<FRMLEN>, ][ALTV1_0=<ALTV1_0>, ]
[GOS=<GOS>, ][LINKGOS=<LINKGOS>, ][PYLDSCRM=<PYLDSCRM>, ][ATMMON=<ATMMON>, ]
[TMGMODE=<TMGMODE>, ][TXIMAGRIPID=<TXIMAGRIPID>, ][TXIMAGRPPER=<TXIMAGRPPER>, ]
[DESC=<DESC>] :[<PST>], [<SST>];
```

Input Parameters

ImaAid	IMA Group Access Identifier. This is the address of the IMA Group that is being created. <i>ImaAid</i> is the AID ImaGrpAid .
IMAMAP	IMA Mapping. This parameter indicates how the internal fixed length packets are to be mapped at the IMA interface. <i>IMAMAP</i> is of type ImaMap . The default value is "NNI".
MLINKS	Minimum links. Minimum number of links required to be Active for the IMA group to be in the Up state. <i>MLINKS</i> is of type ImaLinks . The default value is "1".

XDIFDLY	Maximum Differential Delay. The maximum number of milliseconds of differential delay among the links that will be tolerated. <i>XDIFDLY</i> is of type ImaDiffDelay . The default value is "25".
INH	Inhibited. Configures whether the group is allowed to become operational and carry ATM data. <i>INH</i> is of type BoolYN . The default value is "N".
FRMLEN	Frame Length. The IMA frame length to be used by the IMA group. <i>FRMLEN</i> is of type ImaFrm . The default value is "128".
ALTV1_0	Alternative V1.0. The C7 IMA interface uses the IMA version 1.1 specification as default to interoperate with other IMA interfaces, this is normally backward compatible with older v1.0 interfaces. However, there are recognized interoperability issues with some older IMA interfaces. This parameter enables/disables the IMA group to use the alternative v1.0 IMA specification that should avoid these interoperability problems. For example, the parameter should be set in a group that is interoperating with an older Cisco IMA interface. Please see Atm Forum: Inverse Multiplexing for ATM Specification Version 1.1(AF-PHY-0086.001) - Abstract for further details. <i>ALTV1_0</i> is of type BoolYN . The default value is "N".
GOS	Grade of Service Access Identifier. This is the Grade of Service that is to be applied to the IMA group. <i>GOS</i> is the AID GosAid . The default value is "OFF".
LINKGOS	Link Grade of Service Access Identifier. This is the Grade of Service that is to be applied to the IMA links. <i>LINKGOS</i> is the AID GosAid . The default value is "OFF".
PYLDSCRM	Payload Scrambling. This parameter is set to Y to enable the scrambling of ATM cells. <i>PYLDSCRM</i> is of type BoolYN . The default value is "N".
ATMMON	ATM Diagnostic Monitoring. This parameter is set to Y to enable ATM diagnostic monitoring on the STS path. If enabled, an ATM OAM loopback ping is injected on VP0-VC3 to verify point-to-point connectivity with the next line unit. It applies only to ATMNNI and ATMuNI interfaces. The default value is Y for internal interfaces and N for external interfaces. <i>ATMMON</i> is of type BoolYN . The default value is "N".
TMGMODE	Timing Mode. This parameter selects the timing source. <i>TMGMODE</i> is of type T1TimingMode . The default value is "SOURCE".
TXIMAGRIPID	Specifies the transmit IMA Group ID, a value between 1 and 255. <i>TXIMAGRIPID</i> is a Integer.
TXIMAGRVER	Specifies the transmitted IMA version. <i>TXIMAGRVER</i> is of type ImaVersion . The default value is "1.1".
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String.
PST	Primary Service State. This is the service state which the user wants the entity to transition into. <i>PST</i> is of type PrimaryStateChg . The default value is "IS".
SST	Secondary Service State. The only secondary service state which is provisionable is SB. It only applies when the PST is OOS. <i>SST</i> is of type SecondaryStateChgSB .

Input Example

```
ENT-IMA:SYS1:N3-4-1-IMA4:322:::IMAMAP=UNI,MLINKS=1,XDIFDLY=25,INH=N,
FRMLEN=128,ALTV1_0=Y,GOS=OFF,LINKGOS=OFF,PYLDSCRM=N,ATMMON=Y,
TMGMODE=SOURCE,TXIMAGRIPID=1,TXIMAGRVER=1.1,DESC="DESCRIPTION":OOS,SB;
```

Errors

This message generates all of the [Default Errors](#).

ENT-IMA-PORT

Name

ENT-IMA-PORT: Enter IMA PORT

Description

Category: IMA Group **Security:** Memory Admin - by rate

This command adds a port to an Inverse Multiplexing for ATM (IMA) Interface Group.

Related Messages:

[DLT-AP](#)

[DLT-AP-T1](#)

[DLT-GOS-AP](#)

[DLT-GOS-IMA](#)

[DLT-GOS-IMALINK](#)

[DLT-IMA](#)

[DLT-IMA-PORT](#)

[ED-AP](#)

[ED-GOS-AP](#)

[ED-GOS-IMA](#)

[ED-GOS-IMALINK](#)

[ED-IMA](#)

[ENT-AP](#)

[ENT-AP-T1](#)

[ENT-GOS-AP](#)

[ENT-GOS-IMA](#)

[ENT-GOS-IMALINK](#)

[ENT-IMA](#)

[INIT-REG-AP](#)

[INIT-REG-IMA](#)

[INIT-REG-IMALINK](#)

[REPT ALM AP](#)

[REPT ALM IMA](#)

[REPT ALM IMALINK](#)

[REPT EVT AP](#)

[REPT EVT IMA](#)

[REPT EVT IMALINK](#)

[REPT RMV AP](#)

[REPT RST AP](#)

[RMV-AP](#)

[RMV-IMA](#)

[RST-AP](#)

[RST-IMA](#)

[RTRV-ALM-AP](#)

[RTRV-ALM-IMA](#)

[RTRV-ALM-IMALINK](#)

[RTRV-AP](#)

[RTRV-COND-AP](#)

[RTRV-COND-IMA](#)

[RTRV-GOS-AP](#)

[RTRV-GOS-IMA](#)

[RTRV-GOS-IMALINK](#)

[RTRV-IMA](#)

[RTRV-PM-AP](#)

[RTRV-PM-IMA](#)[RTRV-PM-IMALINK](#)**Input Format**

```
ENT-IMA-PORT : [ TID ] : <ImaAid> : [ CTAG ] : : <PLOCN> ;
```

Input Parameters

ImaAid IMA AID. This is the address of the IMA Interface Group that is being created. The slot number of this AID must be that of the T1 lines which are to be included in the group. *ImaAid* is the AID [ImaGrpAid](#).

PLOCN Physical LOCatioN of the port. This specifies the location of the T1 port. It must specify the same slot as that of the IMA group. *PLOCN* is the AID [PortId](#).

Input Example

```
ENT-IMA-PORT : SYS1 : N3-4-1-IMA4 : 322 : N3-4-1-5 ;
```

Errors

This message generates all of the [Default Errors](#).

ENT-IP-HOST

Name

ENT-IP-HOST: Enter IP HOST

Description

Category: IP **Security:** Memory Admin - by rate

This command allows for creating IP hosts that have a fixed IP address. It will create a static ARP entry between the specified MAC and IP addresses, and a reference to the specified VC acting as the ATM transport for this host.

Input Format

```
ENT-IP-
HOST : [ TID ] : <IP> : [ CTAG ] : : : RTRAID=<RTRAID>, [ MAC=<MAC> ], L2IFAID=<L2IFAID>,
[ VLAN=<VLAN> ], HOSTTYPE=<HOSTTYPE>, [ INCL=<INCL> ] ;
```

Input Parameters

IP	The static IP address of the Host. <i>IP</i> is the AID IpAid .
RTRaid	<i>RTRaid</i> is the AID RouterAid .
MAC	The Mac address of the Host. <i>MAC</i> is the AID MacAid .
L2IfAId	Layer 2 Interface Access Identifier - This is the port address or the VC AID on which the host can be found. The system will use an IP VC if it is the only IP VC on the specified PORT. If the IP VC hasn't been provisioned yet, the system will use the first one upon its creation. IP HOST creation to a PON port is not allowed. IP HOST creation between an IRC PP1 and GE-2p VB port is not allowed. Hosts may be identified by enabling ARP between the IRC and Ge2p. <i>L2IfAId</i> is the AID HostId4 .
VLAN	<i>VLAN</i> is the AID PacketVlanAid .
HOSTTYPE	Identifies the equipment associated with an IP host. This parameter will indicate whether the system will allow channel-change requests from this host. <i>HOSTTYPE</i> is of type IpHostEqptType .
INCL	INCLusive Flag. This inclusive flag allows an user to forcefully add an IP host entry when the provided MAC address is already bound to another IP host. <i>INCL</i> is of type BoolYN . The default value is "N".

Input Example

```
ENT-IP-HOST:SYS3:1.2.3.4:322:::RTRaid=N1-2-VR3,MAC=01-23-45-67-
89-AB,
L2IfAId=N1-2-3-22-CH0-VP1-VC111,VLAN=N1-2-VB1-
VLAN3,HOSTTYPE=OTHER,INCL=N;
```

Errors

This message generates all of the [Default Errors](#).

ENT-IP-IF

Name

ENT-IP-IF: Enter IP IF

Description

Category: IP **Security:** Memory Admin - by rate

Enter an IP InterFace. The IP address anded with the IPMSK may not equal zero. The IP address anded with the compliment of the IPMSK may not be zero.

Related Messages:

DLT-DHCP-OUI	DLT-IP-IF
DLT-IP-ROUTE	DLT-IPIF-PORT
DLT-SUBIF-BINDING	DLT-VID-CHAN
DLT-VID-IRCLOC	DLT-VID-SUB
DLT-VID-SVC	DLT-VODCLNT
DLT-VODDSTLU	DLT-VODFLOW
DLT-VODSRCLU	DLT-VODSVR
ED-ARP	ED-IPIF-PORT
ED-VID-CHAN	ED-VID-SUB
ED-VID-SVC	ED-VODDSTLU
ENT-DHCP-OUI	ENT-IP-ROUTE
ENT-IPIF-PORT	ENT-SUBIF-BINDING
ENT-VID-CHAN	ENT-VID-IRCLOC
ENT-VID-SUB	ENT-VID-SVC
ENT-VODDSTLU	REPT EVT VODFLOW
RTRV-ARP	RTRV-DHCP-LEASE
RTRV-DHCP-OUI	RTRV-IP-IF
RTRV-IP-ROUTE	RTRV-IPIF-PORT
RTRV-SUBIF-BINDING	RTRV-VID-CHAN
RTRV-VID-IRCLOC	RTRV-VID-SUB
RTRV-VID-SVC	RTRV-VODCLNT
RTRV-VODDSTLU	RTRV-VODFLOW
RTRV-VODSRCLU	RTRV-VODSVR

Input Format

```
ENT-IP-IF:[TID]:<IP>:[CTAG]:::IPMSK=<IPMSK>,[[L2IFAID=<L2IFAID>,
[RTRAID=<RTRAID>]];
```

Input Parameters

- IP** IP address. The IP address may not be all zeros. The IP address anded with the IPMSK may not equal zero. The IP address anded with the compliment of the IPMSK may not be zero *IP* is the AID [IpAid](#).
- IPMSK** IP address mask. The most significant bit of the IP address must be set (1). The IP mask must be made up of consecutive set bits. This means a bit pattern like ...101... is disallowed because the set bits are not consecutive. *IPMSK* is the AID [IpAid](#).
- L2IFAID** Layer 2 Interface Access Identifier. Required for IRC. *L2IFAID* is the AID [IpIfAid](#).
- RTRAID** Router AID. Required for GE-2P. *RTRAID* is the AID [RouterAid](#).

Input Example

ENT-IP-IF:SYS1:192.168.1.0:32:::IPMSK=255.255.255.0,L2IFAID=N1-1-19-PP1, RTRAID=N1-1-VR1;
--

Errors

This message generates all of the [Default Errors](#).

ENT-IP-ROUTE

Name

ENT-IP-ROUTE: Enter IP ROUTE

Description

Category: IP **Security:** Memory Admin - by rate

This command is used to provision a new static IP route on an AMP, IRC or VR. In the case of provisioning an AMP card, the default route is provisioned using a non-zero gateway address (GADDR) for an interface using the ED-IFCONFIG command.

Related Messages:

[DLT-DHCP-OUI](#)

[DLT-IP-ROUTE](#)

[DLT-SUBIF-BINDING](#)

[DLT-VID-IRCLOC](#)

[DLT-VID-SVC](#)

[DLT-VODDSTLU](#)

[DLT-VODSRCLU](#)

[ED-ARP](#)

[ED-VID-CHAN](#)

[ED-VID-SVC](#)

[ENT-DHCP-OUI](#)

[ENT-IPIF-PORT](#)

[ENT-VID-CHAN](#)

[ENT-VID-SUB](#)

[ENT-VODDSTLU](#)

[RTRV-ARP](#)

[RTRV-DHCP-OUI](#)

[RTRV-IP-ROUTE](#)

[DLT-IP-IF](#)

[DLT-IPIF-PORT](#)

[DLT-VID-CHAN](#)

[DLT-VID-SUB](#)

[DLT-VODCLNT](#)

[DLT-VODFLOW](#)

[DLT-VODSVR](#)

[ED-IPIF-PORT](#)

[ED-VID-SUB](#)

[ED-VODDSTLU](#)

[ENT-IP-IF](#)

[ENT-SUBIF-BINDING](#)

[ENT-VID-IRCLOC](#)

[ENT-VID-SVC](#)

[REPT EVT VODFLOW](#)

[RTRV-DHCP-LEASE](#)

[RTRV-IP-IF](#)

[RTRV-IPIF-PORT](#)

[RTRV-SUBIF-BINDING](#)
[RTRV-VID-IRCLOC](#)
[RTRV-VID-SVC](#)
[RTRV-VODDSTLU](#)
[RTRV-VODSRCLU](#)

[RTRV-VID-CHAN](#)
[RTRV-VID-SUB](#)
[RTRV-VODCLNT](#)
[RTRV-VODFLOW](#)
[RTRV-VODSVR](#)

Input Format

```
ENT-IP-
ROUTE:[TID]:<IPMASK>:[CTAG]:::RTRAID=<RTRAID>,GADDR=<GADDR>,
[METRIC=<METRIC>];
```

Input Parameters

IPMASK IP/MASK - The destination subnet IP address and destination subnet IP Address Mask. For routes from the Management slot, this address must be on the same subnet as one of the E1, E2, or E3 interfaces. *IPMASK* is the AID [IpMask](#).

RTRAID Access IDentifier of an AMP, IRC or Virtual Router. *RTRAID* is the AID [RouteId1](#).

GADDR Gateway, or "next hop" IP host address. *GADDR* is the AID [IpAid](#).

METRIC The routing metric of the interface. If no value is specified, the default is 1. The routing metric is used by the routing protocol. Higher metrics have the effect of making a route less favorable; metrics are counted as addition hops to the destination network or host. For routes provisioned on IRC, the metric must be 1. *METRIC* is a Integer. The default value is "1".

Input Example

```
ENT-IP-ROUTE:SYS1:192.168.1.0/24:32:::RTRAID=N1-1-
VR1,GADDR=154.233.45.1,
METRIC=1;
```

Errors

This message generates all of the [Default Errors](#).

ENT-IPIF-PORT

Name

ENT-IPIF-PORT: Enter IPIF PORT

Description

Category: IP **Security:** Memory Admin - by rate

Enter IPIF Port - This assigns an IP address created by ENT-IP-IF command to a lower layer interface. Examples of lower layer interfaces are Virtual Bridge, VLAN or a Virtual Router VC.

Related Messages:

DLT-DHCP-OUI	DLT-IP-IF
DLT-IP-ROUTE	DLT-IPIF-PORT
DLT-SUBIF-BINDING	DLT-VID-CHAN
DLT-VID-IRCLOC	DLT-VID-SUB
DLT-VID-SVC	DLT-VODCLNT
DLT-VODDSTLU	DLT-VODFLOW
DLT-VODSRCLU	DLT-VODSVR
ED-ARP	ED-IPIF-PORT
ED-VID-CHAN	ED-VID-SUB
ED-VID-SVC	ED-VODDSTLU
ENT-DHCP-OUI	ENT-IP-IF
ENT-IP-ROUTE	ENT-SUBIF-BINDING
ENT-VID-CHAN	ENT-VID-IRCLOC
ENT-VID-SUB	ENT-VID-SVC
ENT-VODDSTLU	REPT EVT VODFLOW
RTRV-ARP	RTRV-DHCP-LEASE
RTRV-DHCP-OUI	RTRV-IP-IF
RTRV-IP-ROUTE	RTRV-IPIF-PORT
RTRV-SUBIF-BINDING	RTRV-VID-CHAN
RTRV-VID-IRCLOC	RTRV-VID-SUB
RTRV-VID-SVC	RTRV-VODCLNT
RTRV-VODDSTLU	RTRV-VODFLOW
RTRV-VODSRCLU	RTRV-VODSVR

Input Format

```
ENT-IPIF-
PORT:[TID]:<IP>:[CTAG]:::INTERFACE=<INTERFACE>,RTRAID=<RTRAID>,
[DHCPIPIF=<DHCPPIF>];
```

Input Parameters

IP *IP* is the AID [IpAid](#).

INTERFACE *INTERFACE* is the AID [IpIfPortAid](#).

RTRAID *RTRAID* is the AID [VrAid](#).

DHCPIPIF Indicates that this IPIF-PORT's interface is used for relaying DHCP requests. For DHCP requests to be relayed, exactly one IP interface for a given layer-2 interface must have DHCPIPIF=Y.

A given virtual bridge may have at most one IPIF-PORT, attached at the VB level, with the DHCPIPIF set to Y. Each VLAN, independent of the virtual bridge attachments, may also have at most one attached IP-Interface with DHCPIPIF set to Y. *DHCPIPIF* is of type [BoolYN](#). The default value is "N".

Input Example

```
ENT-IPIF-PORT:SYS1:192.168.1.0:32:::INTERFACE=N1-1-VB1-
VLAN5,RTRAD=N1-1-VR1,
DHCPIPIF=N;
```

Errors

This message generates all of the [Default Errors](#).

ENT-LSWITCH

Name

ENT-LSWITCH: Enter LSWITCH

Description

Category: Ethernet **Security:** Memory Admin - by rate

This command provisions a new Logical Switch.

Related Messages:

[DLT-AGG](#)
[DLT-AGG-PORT](#)
[DLT-ETH-ACL](#)
[DLT-LSWITCH](#)
[DLT-PROF-ETH](#)
[DLT-VLAN-PORT](#)
[ED-ETH](#)
[ED-VLAN](#)
[ED-VLAN-VBPORT](#)
[ENT-AGG-ACL](#)
[ENT-ETH](#)
[ENT-GOS-ETH](#)
[ENT-PROF-ETH](#)
[ENT-VLAN-PORT](#)

[DLT-AGG-ACL](#)
[DLT-ETH](#)
[DLT-GOS-ETH](#)
[DLT-LSWITCH-PORT](#)
[DLT-VLAN](#)
[DLT-VLAN-VBPORT](#)
[ED-GOS-ETH](#)
[ED-VLAN-PORT](#)
[ENT-AGG](#)
[ENT-AGG-PORT](#)
[ENT-ETH-ACL](#)
[ENT-LSWITCH-PORT](#)
[ENT-VLAN](#)
[ENT-VLAN-VBPORT](#)

INIT-LSWITCH	INIT-STAT-ETH
REPT ALM ETH	REPT EVT ETH
REPT RMV ETH	REPT RST ETH
RMV-ETH	RST-ETH
RTRV-AGG	RTRV-AGG-ACL
RTRV-AGG-PORT	RTRV-ALM-ETH
RTRV-COND-ETH	RTRV-ETH
RTRV-ETH-ACL	RTRV-GOS-ETH
RTRV-LSWITCH	RTRV-LSWITCH-PORT
RTRV-PM-ETH	RTRV-PROF-ETH
RTRV-STAT-ETH	RTRV-VLAN
RTRV-VLAN-PORT	RTRV-VLAN-VBPORT

Input Format

```
ENT-LSWITCH:[TID]:<LSwitchAid>:[CTAG];
```

Input Parameters

LSwitchAid Logical Switch Access Identifier. *LSwitchAid* is the AID [LSwitchAid](#).

Input Example

```
ENT-LSWITCH:SYS1:N1-2-XLAN10:345;
```

Errors

This message generates all of the [Default Errors](#).

ENT-LSWITCH-PORT

Name

ENT-LSWITCH-PORT: Enter Logical Switch Port

Description

Category: Ethernet **Security:** Memory Admin - by rate

This command adds a port to a Logical Switch.

Related Messages:

DLT-AGG	DLT-AGG-ACL
DLT-AGG-PORT	DLT-ETH
DLT-ETH-ACL	DLT-GOS-ETH
DLT-LSWITCH	DLT-LSWITCH-PORT
DLT-PROF-ETH	DLT-VLAN
DLT-VLAN-PORT	DLT-VLAN-VBPORT
ED-ETH	ED-GOS-ETH
ED-VLAN	ED-VLAN-PORT
ED-VLAN-VBPORT	ENT-AGG
ENT-AGG-ACL	ENT-AGG-PORT
ENT-ETH	ENT-ETH-ACL
ENT-GOS-ETH	ENT-LSWITCH
ENT-PROF-ETH	ENT-VLAN
ENT-VLAN-PORT	ENT-VLAN-VBPORT
INIT-LSWITCH	INIT-STAT-ETH
REPT ALM ETH	REPT EVT ETH
REPT RMV ETH	REPT RST ETH
RMV-ETH	RST-ETH
RTRV-AGG	RTRV-AGG-ACL
RTRV-AGG-PORT	RTRV-ALM-ETH
RTRV-COND-ETH	RTRV-ETH
RTRV-ETH-ACL	RTRV-GOS-ETH
RTRV-LSWITCH	RTRV-LSWITCH-PORT
RTRV-PM-ETH	RTRV-PROF-ETH
RTRV-STAT-ETH	RTRV-VLAN
RTRV-VLAN-PORT	RTRV-VLAN-VBPORT

Input Format

```
ENT-LSWITCH-PORT:[TID]:<LSwitchPortAid>:[CTAG]:::<PLOCN>;
```

Input Parameters

LSwitchPortAid Logical Switch Port Access Identifier. *LSwitchPortAid* is the AID [LSwitchPortAid](#).

PLOCN Physical LOCatioN of the port. This specifies the location of the Logical Bridge port. *PLOCN* is the AID [EthVtiAggPortAid](#).

Input Example

```
ENT-LSWITCH-PORT:SYS1:N1-2-XLAN10-50:345::N1-1-1-1;
```

Errors

This message generates all of the [Default Errors](#).

ENT-MACHOST

Name

ENT-MACHOST: Enter MACHOST

Description

Category: IP **Security:** Memory Admin - by rate

Not supported in release 6.0.

Related Messages:

[DLT-CVIDREG](#)

[DLT-MACHOST](#)

[DLT-VBPORT](#)

[DLT-VR](#)

[ED-CVIDREG](#)

[ED-MACHOST](#)

[ED-VBPORT](#)

[ED-VR](#)

[ENT-IGMP-JOIN](#)

[ENT-VBPORT](#)

[ENT-VR](#)

[REPT ALM VB](#)

[REPT EVT VB](#)

[RTRV-ALM-VB](#)

[RTRV-CVIDREG](#)

[RTRV-IGMP-JOIN](#)

[RTRV-VB](#)

[RTRV-VLAN-VBPORT](#)

[RTRV-VRPORT](#)

[DLT-IGMP-JOIN](#)

[DLT-VB](#)

[DLT-VLAN-VBPORT](#)

[DLT-VRPORT](#)

[ED-IGMP](#)

[ED-VB](#)

[ED-VLAN-VBPORT](#)

[ENT-CVIDREG](#)

[ENT-VB](#)

[ENT-VLAN-VBPORT](#)

[ENT-VRPORT](#)

[REPT ALM VR](#)

[REPT EVT VR](#)

[RTRV-ALM-VR](#)

[RTRV-IGMP](#)

[RTRV-MACHOST](#)

[RTRV-VBPORT](#)

[RTRV-VR](#)

Input Format

ENT- MACHOST: [TID] :<MACAID> : [CTAG] :: : VLAN=<VLAN>, L2IFAID=<L2IFAID>;
--

Input Parameters

MACAID *MACAID* is the AID [MacAid](#).

VLAN *VLAN* is the AID [PacketVlanAid](#).

L2IFAID *L2IFAID* is the AID [VbPortAid](#).

Input Example

```
ENT-MACHOST:SYS:01-23-45-67-89-AB:123:::VLAN=N2-1-VB3-VLAN4,
L2IFAID=N2-1-VB3-5;
```

Errors

This message generates all of the [Default Errors](#).

ENT-NODE

Name

ENT-NODE: Enter Node

Description

Category: System **Security:** System Administration

This command is used to establish the mapping between the Node Number portion of AIDs and a node's System ID. It may also be used to specify which shelf of a node has the Local AMP used to report alarms for the node.

A user with NODEAID=N in their profile, cannot issue this command because they may not specify a Node Number in their AIDs.

Defined by Calix.

Related Messages:

[ALW-STBY-UPGRD](#)
[DLT-NODE](#)
[ED-NODE](#)
[ED-SYS](#)
[ENT-SHELF](#)
[INIT-SYS](#)

[DLT-ALM-SHELF](#)
[ED-DAT](#)
[ED-SHELF](#)
[ED-SYS-SECU](#)
[INH-STBY-UPGRD](#)
[OPR-BAR](#)

[REPT ALM SHELF](#)
[REPT EVT SHELF](#)
[RTRV-BAR](#)
[RTRV-HDR](#)
[RTRV-NODE](#)
[RTRV-SYS](#)

[REPT EVT MEM](#)
[RTRV-ALM-SHELF](#)
[RTRV-COND-SHELF](#)
[RTRV-NETYPE](#)
[RTRV-SHELF](#)
[RTRV-SYS-SECU](#)

Input Format

```
ENT-NODE:[TID]:<NodeAid>:[CTAG]::<SID>:[ [ NODEAMP=<NODEAMP> , ]
[ ALMCONT=<ALMCONT> , ] [ MOUNT=<MOUNT> , ] [ LAT=<LAT> , ] [ LONG=<LONG> ] ] ;
```

Input Parameters

- NodeAid** Node Access Identifier. The node number of the node which is to be defined. *NodeAid* is the AID [NodeAid](#).
- SID** System identification code (SID). This is the SID to be assigned to the the node. It is the SID which will be used to identify the node in the TID field of any subsequent TL1 commands issued by TL1 users who do not specify a Node Number in their AIDs. The value of SID may be any valid simple or compound TL1 identifier or text string. It is limited to 20 characters. The recommended value for this parameter is the node's CLLI. *SID* is a String.
- NODEAMP** Node AMP. This is the AID of the AMP or ATP which is to report alarms for all shelves within the node. It must be in a shelf within the node. *NODEAMP* is the AID [MsNoneAid](#).
- ALMCONT** ALarM CONTact. This parameter determines whether alarm contacts can be scoped to reflect just the node or can be scoped report for the network. *ALMCONT* is of type [AlarmContact](#).
- MOUNT** Mount Type. This describes how the Node of C7's is mounted, such as a Rack or Outdoor Cabinet. *MOUNT* is of type [MountType](#).
- LAT** Latitude. This is the Latitude in real world coordinates. *LAT* is a Integer.
- LONG** Longitude. This is the Longitude in real world coordinates. *LONG* is a Integer.

Input Example

```
ENT-NODE::N4:34::"PETALUMA":NODEAMP=N4-1-
MS,ALMCONT=NODE,MOUNT=RACK,LAT=5,
LONG=10;
```

Errors

This message generates all of the [Default Errors](#).

ENT-ONT

Name

ENT-ONT: Enter Optical Network Termination

Description

Category: PON **Security:** Memory Admin - by rate

This command creates an Optical Network Termination in the database.

Defined by Calix.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-PROF-ONT	ENT-RFVID
ENT-VCG	ENT-VRP
INIT-ONT-UA	INIT-REG-ONT
REPT ALM AVO	REPT ALM ONT
REPT ALM RFVID	REPT ALM VCG
REPT ALM VRP	REPT EVT ONT
REPT RMV AVO	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT

[RTRV-PROF-ONT](#)
[RTRV-STAT-HPNA](#)
[RTRV-VCG](#)
[RTRV-VRP](#)

[RTRV-RFVID](#)
[RTRV-STAT-RFR](#)
[RTRV-VDS1](#)
[TST-ONT-MET](#)

Input Format

```
ENT-ONT:[TID]:<OntAid>:[CTAG]:::[[ONTNUM=<ONTNUM>],[REGID=<REGID>]]
,[ONTPROF=<ONTPROF>,[ [VCG=<VCG>],[BATPROV=<BATPROV>],[ONTPID=<ONTPID>,
[SDBER=<SDBER>],[GOS=<GOS>],[DESC=<DESC>]]:[<PST>],[<SST>];
```

Input Parameters

- OntAid** The ONT Port Access Identifier. *OntAid* is the AID [OntAid](#).
- ONTNUM** The ONT Number for the ONT. This can be physical serial number of the unit or an assigned number programmed into the ONT. The ONT Number is entered as a string of at most 8 hexadecimal digits, optionally preceded by "0x". *ONTNUM* is a String.
- REGID** Registration Id. This is a string of up to 10 digits ('0' through '9'), that can be used instead of ONTNUM for remote ONT registration. When an ONT has been ranged and associated with a matching REGID in the database, the ONTNUM will be automatically recorded in the C7 database and service to the ONT enabled. *REGID* is a String.
- ONTPROF** The ONT Profile that describes the capabilities of the ONT. If not specified, the system default (see ED-SYS) is used. *ONTPROF* is the AID [OntId2](#).
- VCG** The Voice Concentration Group used to support T0 cross-connects from this ONT. *VCG* is the AID [OntId](#). The default value is "NONE".
- BATPROV** This parameter indicates the expected Battery Backup capability. *BATPROV* is of type [BoolYN](#). The default value is "Y".
- ONTPID** The ONT Password is a string of up to 10 characters that can be used to verify the authenticity of an arriving ONT. A password cannot be provided when using a Calix defined ONT Profile. *ONTPID* is a String. The default value is "!!!!".
- SDBER** The threshold value above which the PON Interface bit error rate constitutes a Degraded Signal. *SDBER* is of type [BitErrorRateSD](#). The default value is "5".
- GOS** *GOS* is the AID [GosAid](#). The default value is "OFF".
- DESC** DESCription. A user-settable description field, up to 31 characters. *DESC* is a String. The default value is "!!!!".
- PST** Primary Service State. This is the service state which the user wants the entity to transition into. *PST* is of type [PrimaryStateChg](#). The default value is "IS".
- SST** Secondary Service State. The only secondary service state which is provisionable is SB. It only applies when the PST is OOS. *SST* is of type [SecondaryStateChgSB](#).

Input Example

```
ENT-ONT:SYS:N2-3-12-1-
22:1234:::ONTNUM=117235,REGID=7077663000,ONTPROF=1,
VCG=N1-3-
```

```
IG3 , BATPROV=Y , ONTPID=SECRET , SDBER=5 , GOS=3 , DESC=ONT22:OOS , SB ;
```

Errors

This message generates all of the [Default Errors](#).

ENT-PON

Name

ENT-PON: Enter Passive Optical Network

Description

Category: PON **Security:** Memory Admin - by rate

This command creates a PON port. The underlying equipment must be an Optical Line Termination card.

Defined by Calix.

Input Format

```
ENT-
PON: [TID]:<PonAid>:[CTAG]:::[ [ SDBER=<SDBER> , ] [ DESC=<DESC> ] ]:[ <PST> ]
,[ <SST> ];
```

Input Parameters

PonAid The PON Port Access Identifier. *PonAid* is the AID [FourPortLuAid](#).

SDBER Signal Degraded Bit Error Rate. The threshold value above which the Line's bit error rate constitutes a Degraded Signal. *SDBER* is of type [BitErrorRateSD](#). The default value is "5".

DESC DESCription. A user-settable description field, up to 31 characters. *DESC* is a String. The default value is "::::".

PST Primary Service State. This is the service state which the user wants the entity to transition into. *PST* is of type [PrimaryStateChg](#). The default value is "IS".

SST Secondary Service State. The only secondary service state which is provisionable is SB. It only applies when the PST is OOS. *SST* is of type [SecondaryStateChgSB](#).

Input Example

```
ENT-PON:SYS:N2-3-12-1:67:::SDBER=5,DESC="PON1":OOS,SB;
```

Errors

This message generates all of the [Default Errors](#).

ENT-PP

Name

ENT-PP: Enter Pseudo Port

Description

Category: Virtual Facility **Security:** Memory Admin - by rate

This command creates a PseudoPort in the database.

Related Messages:

ACT-PROTN-VC	ACT-PROTN-VP
DLT-CRS-VC	DLT-CRS-VP
DLT-PP	DLT-PROF-TRF
ED-CRS-VC	ED-CRS-VP
ED-PROF-TRF	ENT-CRS-VC
ENT-CRS-VP	ENT-PROF-TRF
INIT-CSTAT-VC	INIT-CSTAT-VP
INJ-LPBK-VC	INJ-LPBK-VP
MV-CRS-VC	MV-CRS-VP
OPR-CC-VC	OPR-CC-VP
REPT ALM PP	REPT EVT PP
REPT EVT VC	REPT EVT VP
REPT RMV PP	REPT RST PP
RLS-CC-VC	RLS-CC-VP
RMV-PP	RST-PP
RTRV-ALM-PP	RTRV-COND-PP
RTRV-CRS-VC	RTRV-CRS-VP
RTRV-CSTAT-VC	RTRV-CSTAT-VP
RTRV-PP	RTRV-PROF-TRF
RTRV-VTI	

Input Format

ENT-PP : [TID] : <PpAid> : [CTAG] ;

Input Parameters

PpAid The PseudoPort AID *PpAid* is the AID [PpAid](#).

Input Example

ENT-PP : SYS1 : N1 - 2 - 3 - PP1 : 555 ;
--

Errors

This message generates all of the [Default Errors](#).

ENT-PPL

Name

ENT-PPL: Enter Path Protection Label

Description

Category: Protection Switching **Security:** Memory Admin - by rate

This command creates a Path Protection Label.

Related Messages:

[OPR-PROTNSTW-PPL](#)
[REPT EVT PPL](#)
[RTRV-ALM-PPL](#)
[RTRV-PPL](#)

[REPT ALM PPL](#)
[RLS-PROTNSTW-PPL](#)
[RTRV-COND-PPL](#)

Input Format

ENT-PPL : [TID] : <PplAid> : [CTAG] : : : [[WKGRTELST=<WKGRTELST>,] [PROTRTELST=<PROTRTELST>]] ;

Input Parameters

PplAid *PplAid* is the AID [PplUnbrAid](#).

WKGRTTELST List of route elements in the form of source and drop shelves on the working path.
WKGRTTELST is the AID [StsAid](#) and is listable.

PROTRTELST List of route elements in the form of source and drop shelves on the protect path.
PROTRTELST is the AID [StsAid](#) and is listable.

Input Example

```
ENT-PPL:SYS1:N1-2-3-4-5-PPL6-5-200:CTAG:::WKGRTTELST=N2-3-4-5-
6&N3-4-5-6-7,
PROTRTELST=N2-3-4-6-6&N3-4-5-7-7;
```

Errors

This message generates all of the [Default Errors](#).

ENT-PROF-ETH

Name

ENT-PROF-ETH: Enter Profile Ethernet Port

Description

Category: Ethernet **Security:** System Administration

Enter Profile - Ethernet.

Used for entering traffic profiles for Ethernet.

Related Messages:

[DLT-AGG](#)
[DLT-AGG-PORT](#)
[DLT-ETH-ACL](#)
[DLT-LSWITCH](#)
[DLT-PROF-ETH](#)
[DLT-VLAN-PORT](#)
[ED-ETH](#)
[ED-VLAN](#)
[ED-VLAN-VBPORT](#)
[ENT-AGG-ACL](#)
[ENT-ETH](#)
[ENT-GOS-ETH](#)

[DLT-AGG-ACL](#)
[DLT-ETH](#)
[DLT-GOS-ETH](#)
[DLT-LSWITCH-PORT](#)
[DLT-VLAN](#)
[DLT-VLAN-VBPORT](#)
[ED-GOS-ETH](#)
[ED-VLAN-PORT](#)
[ENT-AGG](#)
[ENT-AGG-PORT](#)
[ENT-ETH-ACL](#)
[ENT-LSWITCH](#)

ENT-LSWITCH-PORT	ENT-VLAN
ENT-VLAN-PORT	ENT-VLAN-VBPORT
INIT-LSWITCH	INIT-STAT-ETH
REPT ALM ETH	REPT EVT ETH
REPT RMV ETH	REPT RST ETH
RMV-ETH	RST-ETH
RTRV-AGG	RTRV-AGG-ACL
RTRV-AGG-PORT	RTRV-ALM-ETH
RTRV-COND-ETH	RTRV-ETH
RTRV-ETH-ACL	RTRV-GOS-ETH
RTRV-LSWITCH	RTRV-LSWITCH-PORT
RTRV-PM-ETH	RTRV-PROF-ETH
RTRV-STAT-ETH	RTRV-VLAN
RTRV-VLAN-PORT	RTRV-VLAN-VBPORT

Input Format

```
ENT-PROF-ETH:[TID]:<EthProfAid>:[CTAG]:::BW=<BW>;
```

Input Parameters

EthProfAid Ethernet Profile Number. *EthProfAid* is the AID [EthProfAid](#).

BW BandWidth. *BW* is of type [EthProfBw](#). The default value is "10".

Input Example

```
ENT-PROF-ETH::5:223:::BW=6;;
```

Errors

This message generates all of the [Default Errors](#).

ENT-PROF-IKE

Name

ENT-PROF-IKE: Enter Profile IKE

Description

Category: TDM Services**Security:** System Administration

No Comment Defined.

Input Format

```
ENT-PROF-
IKE:[TID]:<IkeProfAid>:[CTAG]:::[VER=<VER>],AUTH=<AUTH>,KEY=<KEY>,
ENC=<ENC>,HASH=<HASH>,DH=<DH>,LIFESEC=<LIFESEC>,[IPSECMODE=<IPSECMODE>],
IPSECENC=<IPSECENC>,IPSECHASH=<IPSECHASH>,IPSECPFS=<IPSECPFS>,
IPSECLIFESEC=<IPSECLIFESEC>,[DESC=<DESC>];
```

Input Parameters

IkeProfAid	<i>IkeProfAid</i> is the AID IkeProfProvAid .
VER	<i>VER</i> is of type IkeProtocolVersion . The default value is "AUTO".
AUTH	<i>AUTH</i> is of type IkeAuthType .
KEY	<i>KEY</i> is a String.
ENC	"NONE" is not allowed here. <i>ENC</i> is of type CipherType and can be one of the following values: "3DES", "AES128", "AES192", "AES256", "BLOWFISH", "CAST", "DES".
HASH	<i>HASH</i> is of type HashType .
DH	<i>DH</i> is of type DHGroup .
LIFESEC	<i>LIFESEC</i> is a Integer.
IPSECMODE	<i>IPSECMODE</i> is of type IpSecEncapMode . The default value is "TRANSPORT_ESP".
IPSECENC	"NONE" means no encryption, but retain ESP encapsulation for authentication <i>IPSECENC</i> is of type CipherType .
IPSECHASH	<i>IPSECHASH</i> is of type HashType .
IPSECPFS	<i>IPSECPFS</i> is of type DHGroup .
IPSECLIFESEC	<i>IPSECLIFESEC</i> is a Integer.
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String. The default value is """".

Input Example

```
ENT-PROF-
IKE:SYS:4:123:::VER=AUTO,AUTH=PSK_STR,KEY=SHAREDKEY,ENC=3DES,
HASH=MD5,DH=DH1,LIFESEC=3600,IPSECMODE=TRANSPORT_ESP,IPSECENC=CAST,
IPSECHASH=MD5,IPSECPFS=DH1,IPSECLIFESEC=3600,DESC="MYIKEPROF";
```

Errors

This message generates all of the [Default Errors](#).

ENT-PROF-ONT

Name

ENT-PROF-ONT: Enter Profile Optical Network Termination

Description

Category: PON **Security:** System Administration

Enter profile - Optical Network Termination. Used to create a new ONT profile that describes the ports and capabilities of ONTs connected to the system.

Related Messages:

[DLT-AVO](#)

[DLT-IG-VDS1](#)

[DLT-PROF-ONT](#)

[DLT-VCG](#)

[ED-AVO](#)

[ED-ONT](#)

[ED-RFVID](#)

[ED-VRP](#)

[ENT-GOS-ONT](#)

[ENT-ONT](#)

[ENT-VCG](#)

[INIT-ONT-UA](#)

[REPT ALM AVO](#)

[REPT ALM RFVID](#)

[REPT ALM VRP](#)

[REPT RMV AVO](#)

[REPT RMV RFVID](#)

[REPT RST ONT](#)

[RMV-AVO](#)

[RMV-RFVID](#)

[RST-ONT](#)

[RTRV-ALM-AVO](#)

[RTRV-ALM-RFVID](#)

[RTRV-ALM-VRP](#)

[RTRV-COND-ONT](#)

[DLT-GOS-ONT](#)

[DLT-ONT](#)

[DLT-RFVID](#)

[DLT-VRP](#)

[ED-GOS-ONT](#)

[ED-PROF-ONT](#)

[ED-VCG](#)

[ENT-AVO](#)

[ENT-IG-VDS1](#)

[ENT-RFVID](#)

[ENT-VRP](#)

[INIT-REG-ONT](#)

[REPT ALM ONT](#)

[REPT ALM VCG](#)

[REPT EVT ONT](#)

[REPT RMV ONT](#)

[REPT RST AVO](#)

[REPT RST RFVID](#)

[RMV-ONT](#)

[RST-AVO](#)

[RST-RFVID](#)

[RTRV-ALM-ONT](#)

[RTRV-ALM-VCG](#)

[RTRV-AVO](#)

[RTRV-COND-VCG](#)

RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
ENT-PROF-
ONT: [ TID ] :<OntProfAid>:[ CTAG ] :::VENDOR=<VENDOR>, [ [ NUMPOTS=<NUMPOTS>, ]
[ NUMDS1=<NUMDS1>, ] [ NUMGETH=<NUMGETH>, ] [ NUMETH=<NUMETH>, ]
[ NUMHPNA=<NUMHPNA>, ] [ NUMRFVID=<NUMRFVID>, ] [ DESC=<DESC> ] ] ;
```

Input Parameters

- OntProfAid** ONT profile number. *OntProfAid* is the AID [OntProfAid](#).
- VENDOR** The Vendor ID for ONTs using this profile. This is a string up to 4 characters long. *VENDOR* is a String.
- NUMPOTS** The number of POTS ports supported on the ONT; the supported values are 0,2,4 and 8. *NUMPOTS* is a Integer. The default value is "0".
- NUMDS1** The number of DS1 ports supported on the ONT. {0-12} *NUMDS1* is a Integer. The default value is "0".
- NUMGETH** The number of Gigabit Ethernet ports supported on the ONT. {0-12} *NUMGETH* is a Integer. The default value is "0".
- NUMETH** The number of Ethernet ports supported on the ONT. {0-12} *NUMETH* is a Integer. The default value is "0".
- NUMHPNA** The number of HPNA Ethernet ports supported on the ONT. {0-2} *NUMHPNA* is a Integer. The default value is "0".
- NUMRFVID** The number of RF Video (COAX) output ports supported on the ONT. {0-12} *NUMRFVID* is a Integer. The default value is "0".
- DESC** A user-settable description field for this profile, of up to 31 characters. *DESC* defaults to be the template address/index number. *DESC* is a String.

Input Example

```
ENT-PROF-
ONT:SYS:2:123:::VENDOR="CXNK",NUMPOTS=8,NUMDS1=2,NUMGETH=0,NUMETH=2,
NUMHPNA=0,NUMRFVID=1,DESC="SBU";
```

Errors

This message generates all of the [Default Errors](#).

ENT-PROF-TRF

Name

ENT-PROF-TRF: Enter Profile Traffic

Description

Category: Virtual Facility **Security:** System Administration

This command defines a traffic profile which can be applied any cross-connect in lieu of needing to enter each of the traffic profile values individually for every connection.

The following table shows the relationship between Class of Service and other profile parameters.

	CBR	UBR	UBR+	GFR	VBRRT	VBRNRT
CDVT *	Integer	N/A	N/A	Integer	Integer	Integer
PCR01 **	Non-Zero	Non-Zero	Integer***	Non-Zero	Non-Zero	Non-Zero
SCR0	N/A	N/A	N/A	N/A	Integer	Integer
SCR01	N/A	N/A	N/A	N/A	Integer	Integer
MCR	N/A	N/A	Integer***	PCR01	N/A	N/A
MBS	N/A	N/A	N/A	Non-Zero	Non-Zero	Non-Zero
MFS	N/A	N/A	N/A	Non-Zero	N/A	N/A
CELLTAG	N/A	N/A	N/A	Y/N****	Y/N	Y/N
POLICE	Y/N	Y/N*****	Y/N*****	Y/N	Y/N	Y/N

* CDVT must be at least $(1/\text{PCR01}) * 1000000$. Typical values would be around 5/PCR for ATM transport and 32/PCR for Video or IP.

** PCR01 is calculated by taking the rate (in bits per second) and dividing by 424.

*** UBR+ uses PCR01 and MCR to shape traffic to the PCR and reserve bandwidth equivalent to the MCR.

**** Cell tagging for GFR traffic profiles will be supported in a future C7 release. Currently CELLTAG is ignored for GFR profiles.

***** Policing for UBR and UBR+ traffic profiles will be supported in a future C7 release.

Currently POLICE, PCR01, CDVT and CELLTAG are ignored for UBR and UBR+ profiles, with the exception of PCR01 used for shaping as described above.

Defined by Calix and modeled after ENT-rr in GR-199.

Related Messages:

ACT-PROTN-VC	ACT-PROTN-VP
DLT-CRS-VC	DLT-CRS-VP
DLT-PP	DLT-PROF-TRF
ED-CRS-VC	ED-CRS-VP
ED-PROF-TRF	ENT-CRS-VC
ENT-CRS-VP	ENT-PP
INIT-CSTAT-VC	INIT-CSTAT-VP
INJ-LPBK-VC	INJ-LPBK-VP
MV-CRS-VC	MV-CRS-VP
OPR-CC-VC	OPR-CC-VP
REPT ALM PP	REPT EVT PP
REPT EVT VC	REPT EVT VP
REPT RMV PP	REPT RST PP
RLS-CC-VC	RLS-CC-VP
RMV-PP	RST-PP
RTRV-ALM-PP	RTRV-COND-PP
RTRV-CRS-VC	RTRV-CRS-VP
RTRV-CSTAT-VC	RTRV-CSTAT-VP
RTRV-PP	RTRV-PROF-TRF
RTRV-VTI	

Input Format

```
ENT-PROF-TRF:[TID]:<TrfProfAid>:[CTAG]:::COS=<COS>, [ [ CDVT=<CDVT>, ]
[PCR01=<PCR01>, ][SCR0=<SCR0>, ][SCR01=<SCR01>, ][MCR=<MCR>, ][APP=<APP>, ]
[MBS=<MBS>, ][MFS=<MFS>, ][CELLTAG=<CELLTAG>, ][POLICE=<POLICE>, ]
[ACTIVE=<ACTIVE>, ][DESC=<DESC>] ];
```

Input Parameters

TrfProfAid	Traffic Profile Access Identifier. The address of a specific entry in Traffic Profile table to be retrieved. <i>TrfProfAid</i> is the AID AtmTrfProfProvAid .
COS	Class of Service. This parameter indicates the general characteristics of the service desired. <i>COS</i> is of type ClassOfService .
CDVT	Cell Delay Variation Tolerance. This parameter indicates the maximum variance in cell delay that is acceptable. The units are microseconds. The parameter is applicable for CBR, GFR, and real-time VBR. Minimum CDVT must be at least $(1/\text{PCR01}) * 1000000$ microseconds. Typical values would be around 5/PCR for ATM transport and 32/PCR for Video or IP. <i>CDVT</i> is a Integer.
PCR01	Peak Cell Rate. This parameter identifies the fastest rate at which back to back cells of a given ATM connection arrive. The rate is specified in cells per second. This parameter is applicable for all the supported COSSs. <i>PCR01</i> is a Integer.
SCR0	Sustainable Cell Rate for cell loss priority 0. This parameter indicates the maximum

average rate of the connection over its lifetime for cells that do not have their CLP bit set. The rate is specified in cells per second. The parameter is reported only for VBR COSs. *SCR0* is a Integer.

SCR01	Sustainable Cell Rate for cell loss priority 0 and 1. This parameter indicates the maximum average rate of the connection over its lifetime for cells regardless of their CLP bit setting. The rate is specified in cells per second. The parameter is applicable only to VBR COSs. <i>SCR01</i> is a Integer.
MCR	Minimum Cell Rate. This parameter specifies a guaranteed minimum cell rate that the connection will support. The rate is specified in cells per second. This parameter is applicable only to the GFR COS. <i>MCR</i> is a Integer.
APP	Application ID. For Video applications. <i>APP</i> is of type ApplicationId .
MBS	Maximum Burst Size. This parameter specifies maximum number of consecutive cells that the source may send before the cells are tagged or discarded. This parameter is only applicable to the VBR and GFR COSs. <i>MBS</i> is a Integer.
MFS	Maximum Frame Size. The maximum number of cells in a frame. This parameter is applicable only to the GFR COS. <i>MFS</i> is a Integer.
CELLTAG	CELL TAGging. This parameter specifies whether the cells that exceed the specification should be tagged with CLP=1. The parameter is applicable to the VBRRT and VBRNRT COSs. <i>CELLTAG</i> is of type BoolYN . The default value is "N".
POLICE	Policing. Indicates whether rate policing is turned on. Note: the extra processing required to support policing will result in a total available bandwidth reduction of approximately 20%. <i>POLICE</i> is of type BoolYN . The default value is "Y".
ACTIVE	This parameter indicates that the profile may be used for new cross-connect provisioning. Setting ACTIVE=N will prevent the VOD Flow Manager from selecting a traffic profile for flow VC creation when the operator is attempting to "age out" a profile and later delete it. <i>ACTIVE</i> is of type BoolYN . The default value is "Y".
DESC	Description. A string description of this object, up to 11 characters in length. The string is intended to help users track profiles they create. <i>DESC</i> is a String.

Input Example

```
ENT-PROF-
TRF:SYS1:32:480:::COS=GFR,CDVT=30,PCR01=45,SCR0=1,SCR01=333,MCR=40,
APP=VIDCHNL,MBS=30,MFS=200,CELLTAG=Y,POLICE=Y,ACTIVE=Y,DESC=DESC;
```

Errors

This message generates all of the [Default Errors](#).

Name

ENT-RFVID: Enter Rf-Video

Description

Category: PON **Security:** Memory Admin - by rate

This command creates an Rf-Video port on an ONT. The Rf-Video port is the port where the RF-Video signal is sent from the ONT to the subscriber coax cable.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-VCG	ENT-VRP
INIT-ONT-UA	INIT-REG-ONT
REPT ALM AVO	REPT ALM ONT
REPT ALM RFVID	REPT ALM VCG
REPT ALM VRP	REPT EVT ONT
REPT RMV AVO	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
ENT-
RFVID:[ TID ]:<OntPortAid>:[ CTAG ]:::[ [ ENONBAT=<EONBAT>, ] [ DESC=<DESC> ] ]:
[ <PST> ],[ <SST> ];
```

Input Parameters

- OntPortAid** Rf-Video Port Access Identifier. The address of the RFVID port. (The ONT port number must be equal to 1.) *OntPortAid* is the AID [OntPortAid](#).
- EONBAT** For ONT ports, this parameter specifies the behavior the port when the ONT is running on battery backup, and overrides the default (ONTRFVIDONBAT) specified by ED-SYS. *This feature is enabled in C7 release 5.2* *EONBAT* is of type [OntPortPwrOpt](#). The default value is "USEDEF".
- DESC** DESCription. A user-settable description field, up to 31 characters. *DESC* is a String. The default value is """".
- PST** Primary Service State. This is the service state which the user wants the entity to transition into. *PST* is of type [PrimaryStateChg](#). The default value is "IS".
- SST** Secondary Service State. The only secondary service state which is provisionable is SB. It only applies when the PST is OOS. *SST* is of type [SecondaryStateChgSB](#).

Input Example

```
ENT-RFVID:SYS:N2-4-6-1-18-
1:345:::ENONBAT=USEDEF,DESC="DESCRIPTION":OOS,SB;
```

Errors

This message generates all of the [Default Errors](#).

ENT-RMTDEV

Name

ENT-RMTDEV: Enter Remote Device

Description

Category: System **Security:** Memory Admin - by rate

Enter Remote Device. This is to pre provision a remote device. This may not necessarily match the discovered remote devices. User should be able to correlate between discovered and provisioned data

manually.

Input Format

```
ENT-
RMTDEV: [ TID ] :<RmtDevAid>:[ CTAG ]:::[ [ SERIAL=<SERIAL> , ] [ DEVNAME=<DEVNAME> , ]
[ DEVTYPE=<DEVTYPE> , ] [ MGMTIP=<MGMTIP> , ] [ PLOCN=<PLOCN> , ]
[ SAMENODE=<SAMENODE> , ] [ SIPVCG=<SIPVCG> ] ];
```

Input Parameters

RmtDevAid	Remote Device Access Identifier. <i>RmtDevAid</i> is the AID RmtDevAid .
SERIAL	The remote device serial number. This may correspond to a backplane identifier, or some other means of identifying the physical piece of equipment. <i>SERIAL</i> is a String.
DEVNAME	The name of the remote device. This could be the CLLI code of a network element, or an arbitrary name assigned to the device <i>DEVNAME</i> is a String.
DEVTYPE	The type of the Remote Device. <i>DEVTYPE</i> is of type RmtDeviceType .
MGMTIP	The IP address(es) of the device to which an operator or the CMS can connect. <i>MGMTIP</i> is the AID IpAid .
PLOCN	The identifier(s) of the physical port(s) to which the remote device is connected. This can include in-band ports such as a GE or OCn port, or a port on the AMP. <i>PLOCN</i> is the AID RmtdevId .
SAMENODE	This indicates if the device is considered part of the same node for management purposes. In a general sense, a node refers to co-located equipment of performing a collective function. <i>SAMENODE</i> is of type BoolYN .
SIPVCG	The SIP VCG created for managing SIP-based subscribers. The SIP VCG is required if this device will use a PSTN gateway capabilities of the C7 <i>SIPVCG</i> is the AID IgAid .

Input Example

```
ENT-RMTDEV:SYS3:N1-1-
RMT3:342:::SERIAL=082839283,DEVNAME=MYF5,DEVTYPE=F5,
MGMTIP=10.1.1.1,PLOCN=N1-1-1-1,SAMENODE=N,SIPVCG=N1-1-IG3;
```

Errors

This message generates all of the [Default Errors](#).

ENT-SHELF

Name

ENT-SHELF: Enter Shelf

Description

Category: System **Security:** System Administration

This command is used to set the Shelf AID for the shelf having the Backplane Serial Number specified in the BackplaneNo field. The other parameters may optionally be set.

Related Messages:

[ALW-STBY-UPGRD](#)

[DLT-NODE](#)

[ED-NODE](#)

[ED-SYS](#)

[ENT-NODE](#)

[INIT-SYS](#)

[REPT ALM SHELF](#)

[REPT EVT SHELF](#)

[RTRV-BAR](#)

[RTRV-HDR](#)

[RTRV-NODE](#)

[RTRV-SYS](#)

[DLT-ALM-SHELF](#)

[ED-DAT](#)

[ED-SHELF](#)

[ED-SYS-SECU](#)

[INH-STBY-UPGRD](#)

[OPR-BAR](#)

[REPT EVT MEM](#)

[RTRV-ALM-SHELF](#)

[RTRV-COND-SHELF](#)

[RTRV-NETYPE](#)

[RTRV-SHELF](#)

[RTRV-SYS-SECU](#)

Input Format

```
ENT-
SHELF:[TID]:<ShelfAid>:[CTAG]::<BackplaneNo>:[ [ PWRCAT3=<PWRCAT3>, ]
[ DCIN=<DCIN>, ] [ EXPRESSLINKS=<EXPRESSLINKS> ] ];
```

Input Parameters

ShelfAid This is the AID to be set for the backplane identified in the BackplaneNo field. *ShelfAid* is the AID [ShelfAid](#).

BackplaneNo This is the serial number of the backplane that is to be given the Shelf AID specified in the ShelfAid field. Note that to input a HEX-value, the leading 2 characters should be 0x (zero x). Otherwise, the value will be processed as Decimal-value. *BackplaneNo* is a String.

PWRCAT3 Power Category 3 Shutdown time. This is the time equipment assigned to power category 3 is allowed to remain powered up after the system switches to emergency backup power. *PWRCAT3* is of type [PowerCat3Time](#). The default value is "10 minutes".

DCIN DC Inputs. This parameter indicates the type of DC power being supplied to the shelf. *DCIN* is of type [DCIN](#). The default value is "BOTH".

EXPRESSLINKS Express Links. When set to Y, the system will attempt to save bandwidth on cross-connects that match all of these conditions: 1) Connection is of type VP or VC or of type T0 or T1 on an intermediate shelf. 2) Source and destination slots are located in

slots 9, 10, CSA, CSB, 11 and 12. 3) Source and destination slots are of any of these types: OC-n, DS3p, RAP-OC or IRC. 4) Connection is bi-directional or uni-directional for VOD application. 5) Connection is unprotected OR going to an unprotected destination OR pass-through between two mate protected slots. *EXPRESSLINKS* is of type [BoolYN](#). The default value is "N".

Input Example

```
ENT-SHELF:SYS1:N6-
5:CTAG::123456:PWRCAT3=5,DCIN=DCA,EXPRESSLINKS=Y;
```

Errors

This message generates all of the [Default Errors](#).

ENT-SIP

Name

ENT-SIP: Enter Session Initiation Protocol

Description

Category: VOIP **Security:** Maintenance - full

Enter Session Initiation Protocol Interface Group.

This command creates a SIP IG and defines the configuration information that is common to a group of SIP lines. At a minimum, it specifies how to access a server that is used to obtain access to the network. This server may supply additional configuration information. The configuration information also specifies how the lines are to be assigned their IP address.

Input Format

```
ENT-
SIP:[TID]:<IgAid>:[CTAG]:::PRICFGURL=<PRICFGURL>, [ [ SECCFGURL=<SECCFGURL>, ]
[ HOSTPROTO=<HOSTPROTO>, ] [ IP=<IP>, ] [ IPMSK=<IPMSK>, ] [ GADDR=<GADDR>, ]
[ MAXACTCALLS=<MAXACTCALLS>, ] [ OPTION82=<OPTION82> ] ]:[ <PST> ];
```

Input Parameters

IgAid Access Identifier for the SIP Group. *IgAid* is the AID [IgAid](#).

PRICFGURL PRIMary ConFiGuration Uniform Resource Locator. URL of the configuration needed to access the SIP network. Currently TFTP access and direct registration

with the SIP registrar are supported. The value can take following 1 of 2 formats: "TFTP: //IP address of TFTP server/Path to Config File" or "REGISTER SIP: IP address of SIP registrar" *PRICFGURL* is a String.

SECCFGURL	SECondary ConFiGuration Uniform Resource Locator. URL of backup network access configuration. The value takes the same format as <i>PRICFGURL</i> . <i>SECCFGURL</i> is a String.
HOSTPROTO	Protocol to be used to obtain the IP address for the host for SIP lines in the group. <i>HOSTPROTO</i> is of type SipHostProto . The default value is "DHCP".
IP	IP address. Statically assigned IP address associated with the group. <i>IP</i> is the AID IpAid . The default value is "0.0.0.0".
IPMSK	Subnet IP MASK. <i>IPMSK</i> is the AID IpAid . The default value is "0.0.0.0".
GADDR	Subnet IP GATEWAY Address. Statically assigned IP address associated with the group's gateway. <i>GADDR</i> is the AID IpAid . The default value is "0.0.0.0".
MAXACTCALLS	Maximum number of concurrent calls (up to 384) for this IG. <i>MAXACTCALLS</i> is a Integer. The default value is "360".
OPTION82	Indicates whether DHCP Relay Option 82 is enabled. <i>OPTION82</i> is of type Option82 . The default value is "N".
PST	<i>PST</i> is of type PrimaryStateChg .

Input Example

```
ENT-SIP:SYS:N1-2-IG3:322:::  
    PRICFGURL="TFTP: //192.168.22.123/SIPCONFIGS/SWITCH1.TXT",  
    SECCFGURL="TFTP  
//192.168.21.128/SIPCONFIGS/SWITCH1.TXT",HOSTPROTO=STATIC,  
    IP=192.168.22.123,IPMSK=255.255.255.0,GADDR=192.168.22.1,MAXACTCALLS=255,  
    OPTION82=N:OOS;
```

Errors

This message generates all of the [Default Errors](#).

ENT-SIPT0

Name

ENT-SIPT0: Enter SIPT0

Description

Category: VOIP **Security:** Memory Admin - by rate

Enter SIP T0.

The SIPT0 carries the configuration information that is unique to a particular line. It also specifies the SIP group to which the line belongs. This group defines the configuration information that is shared with other SIP lines in the group.

Input Format

```
ENT-
SIPT0:[TID]:<T0Aid>:[CTAG]:::SIPIG=<SIPIG>,USER=<USER>,[ [ PID=<PID>,
][HOSTPROTO=<HOSTPROTO>,[ IP=<IP>,[ IPMSK=<IPMSK>,[ GADDR=<GADDR> ] ];
```

Input Parameters

T0Aid	<i>T0Aid</i> is the AID SipT0PortAid .
SIPIG	SIP Group AID. Identifies the SIP group to which the line belongs. <i>SIPIG</i> is the AID IgAid .
USER	User Name. User name for the subscriber. This string is used to form the UserId field to the left of the @ in the SIP URL. It is also used as the username for authentication protocols. The value is a character string up to 20 bytes. It must either be a telephone number or the AID of a legacy telephony interface provided by a C7. <i>USER</i> is a String.
PID	Password. Password for authorization of the subscriber. The value is a character string up to 20 bytes. <i>PID</i> is a String.
HOSTPROTO	<i>HOSTPROTO</i> is of type SipT0HostProto . The default value is "GROUP".
IP	<i>IP</i> is the AID IpAid . The default value is "0.0.0.0".
IPMSK	<i>IPMSK</i> is the AID IpAid . The default value is "0.0.0.0".
GADDR	<i>GADDR</i> is the AID IpAid . The default value is "0.0.0.0".

Input Example

```
ENT-SIPT0:SYS2:N1-5-6-3-1:123:::SIPIG=N1-2-IG3,USER=N4-1-IG2-
7,PID=GRF33,
HOSTPROTO=GROUP,IP=0.0.0.0,IPMSK=0.0.0.0,GADDR=0.0.0.0;
```

Errors

This message generates all of the [Default Errors](#).

ENT-SIPVCG

Name

ENT-SIPVCG: Enter SIPVCG

Description

Category: VOIP **Security:** Memory Admin - by rate

Enter SIP Voice Concentration Group.

This command creates an Interface Group for connecting subscriber SIP agents in remote terminals through the C7 to network interfaces

Input Format

```
ENT-
SIPVCG:[TID]:<IgAid>:[CTAG]:::CTLIP=<CTLIP>, [MAXACTCALLS=<MAXACTCALLS>] :
[<PST>];
```

Input Parameters

IgAid Ig Number within a shelf. *IgAid* is the AID [IgAid](#).

CTLIP Control IP Address. IP address for control message transport. This IP address is used to contact both the SIP registrar and the SIP user agents associated with the IG. *CTLIP* is the AID [IpAid](#).

MAXACTCALLS *MAXACTCALLS* is a Integer. The default value is "48".

PST *PST* is of type [PrimaryStateChg](#).

Input Example

```
ENT-SIPVCG:SYS1:N1-2-
IG3:321:::CTLIP=131.213.41.146,MAXACTCALLS=255:OOS;
```

Errors

This message generates all of the [Default Errors](#).

ENT-SNMP-ACL

Name

ENT-SNMP-ACL: Enter SNMP Access Control List

Description

Category: Management Interface

Security: Memory Admin - by rate

Adds an entry to the SNMP Address Control List.

An Address Control List consists of up to 10 source address/mask pairs per C7 network.

If the Access Control List is empty, no security will be enforced. This is the default behavior.

Input Format

```
ENT-SNMP-ACL:[TID]:::[CTAG]:::IP=<IP>,IPMSK=<IPMSK>;
```

Input Parameters

IP IP Address. The IP address of the SNMP manager that is allowed to make requests to the C7 network. *IP* is the AID [IpAid](#).

IPMSK IP Address Mask. The mask to apply to the IP address, allowing for a range of IP addresses to be considered. *IPMSK* is the AID [IpAid](#).

Input Example

```
ENT-SNMP-ACL:SYS2::23:::IP=192.168.1.0,IPMSK=255.255.255.0;;
```

Errors

This message generates all of the [Default Errors](#).

ENT-SUBIF-BINDING

Name

ENT-SUBIF-BINDING: Enter SUBIF BINDING

Description

Category: Video

Security: Memory Admin - by rate

Enter Sub-Interface Binding: this is used to specify a subscriber location scope and assign it a L3 interface address. The DHCP Relay Agent uses this L3 Interface Address for the GIADDR field in all relayed DHCP client messages. The command applies to IRC card.

Related Messages:

DLT-DHCP-OUI	DLT-IP-IF
DLT-IP-ROUTE	DLT-IPIF-PORT
DLT-SUBIF-BINDING	DLT-VID-CHAN
DLT-VID-IRCLOC	DLT-VID-SUB
DLT-VID-SVC	DLT-VODCLNT
DLT-VODDSTLU	DLT-VODFLOW
DLT-VODSRCLU	DLT-VODSVR
ED-ARP	ED-IPIF-PORT
ED-VID-CHAN	ED-VID-SUB
ED-VID-SVC	ED-VODDSTLU
ENT-DHCP-OUI	ENT-IP-IF
ENT-IP-ROUTE	ENT-IPIF-PORT
ENT-VID-CHAN	ENT-VID-IRCLOC
ENT-VID-SUB	ENT-VID-SVC
ENT-VODDSTLU	REPT EVT VODFLOW
RTRV-ARP	RTRV-DHCP-LEASE
RTRV-DHCP-OUI	RTRV-IP-IF
RTRV-IP-ROUTE	RTRV-IPIF-PORT
RTRV-SUBIF-BINDING	RTRV-VID-CHAN
RTRV-VID-IRCLOC	RTRV-VID-SUB
RTRV-VID-SVC	RTRV-VODCLNT
RTRV-VODDSTLU	RTRV-VODFLOW
RTRV-VODSRCLU	RTRV-VODSVR

Input Format

```
ENT-SUBIF-
BINDING:[TID]:<PHYSLOC>:[CTAG]:::IP=<IP>,RTRAID=<RTRAID>;
```

Input Parameters

PHYSLOC Physical Location Access Identifier - specifies the subscriber location scope. This AID can be ALL, Node, Shelf, Slot or Port. Scope must be disjoint for different IP addresses or proper subsets of each other. Valid examples:

- ENT-SUBIF-BINDING::N1:::IP=192.168.15.1,RTRAID=N7-1-6;
- ENT-SUBIF-BINDING::N1-3:::IP=192.168.37.1,RTRAID=N7-1-6;

Invalid examples:

- ENT-SUBIF-BINDING::N1-1-3:::IP=192.168.15.1,RTRAID=N7-1-6;
- ENT-SUBIF-BINDING::N1-1-3:::IP=192.168.37.1,RTRAID=N7-1-6;

PHYSLOC is the AID [SubIfBindingAid](#).

IP Layer 3 interface address. This is assigned to a physical location and used instead of the

GADDR field in all relayed DHCP client messages. *IP* is the AID [IpAid](#).

RTRaid This is the IRC slot location. *RTRaid* is the AID [SlotLuAid](#).

Input Example

```
ENT-SUBIF-BINDING:SYS1:N1-2-3:CTAG:::IP=192.168.1.2,RTRAI=1-1-3;
```

Errors

This message generates all of the [Default Errors](#).

ENT-T0

Name

ENT-T0: Enter Digital Signal Zero

Description

Category: DS0 Facility **Security:** Memory Admin - by rate

This command creates a DS0 port within the system. The parameters provided within the command define the type of services which will be provided by the DS0 port.

Defined in GR-199.

Related Messages:

[DLT-CRS-T0](#)
[ED-T0](#)
[REPT ALM T0](#)
[REPT RMV T0](#)
[RMV-T0](#)
[RTRV-ALM-T0](#)
[RTRV-CRS-T0](#)
[RTRV-T0](#)

[DLT-T0](#)
[ENT-CRS-T0](#)
[REPT EVT T0](#)
[REPT RST T0](#)
[RST-T0](#)
[RTRV-COND-T0](#)
[RTRV-CSTAT-T0](#)

Input Format

```
ENT-
T0:[TID]:<T0Aid>:[CTAG]:::[ [GSFN=<GSFN>, ][RTLP=<RTLP>, ][TTL= <TTL>, ]
[Z=<Z>, ][EBSLVL=<EBSLVL>, ][EFTT=<EFTT>, ][RATE=<RATE>, ][EC=<EC>, ]
[ZCS=<ZCS>, ][SC=<SC>, ][TIMEOUT=<TIMEOUT>, ][LLBE=<LLBE>, ]
```

[DDSTEST=<DDSTEST>,] [DESC=<DESC>] : [<PST>], [<SST>] ;

Input Parameters

T0Aid	T0 Port Access Identifier. The address of the T0 port which is being created. <i>T0Aid</i> is the AID TwentyFourPortLuAid .
GSFN	General Signaling Function. This indicates the signaling used by the T0 port, such as loop start, ground start, etc. Note: 4DU is valid for the OCUDPx6 line unit. 4D0 is valid for the DS0DPx6 line unit. <i>GSFN</i> is of type GenSigFunction . The default value is "2LS".
RTLP	Receive Transmission Level Point. Transmission level point for receiving from the equipment. The transmission level point is the decibel value of the ratio of the power of a 1004 Hz signal at a point to the power of the same signal at a reference point on the digital side of the codec. Therefore, an increase in the RTLP will result in a gain toward the analog side. The default is set to match the standard settings for an RPOTS card. <i>RTLP</i> is of type Rlp . The default value is "-2.0".
TTLP	Transmit Transmission Level Point. Transmission level point for transmitting toward the equipment. The transmission level point is the decibel value of the ratio of the power of a 1004 Hz signal at a point to the power of the same signal at a reference point on the digital side of the codec. Therefore, an increase in the TTLP will result in a gain toward the digital side. The default is set to match the standard settings for an RPOTS card. <i>TTLP</i> is of type Tlp . The default value is "-2.0".
Z	Impedance. This parameter indicates the expected impedance of the line in Ohms. <i>Z</i> is of type ImpedanceOhms . The default value is "900".
EBSLVL	Electronic Business Service LeVeL This attribute is only applicable to Nortel's Electronic Business Service. It specifies the level of the secondary signaling channel. <i>EBSLVL</i> is of type EBSLv1 . The default value is "AUTO".
EFTT	Enable Full-Time Transmission. This attribute is set to Y to enable transmission of the audio channel even when the subscriber is on-hook and the phone has not recently been rung. This parameter may be used to force a "nailed up" connection even when the DS0 is associated with a T1 transport group CRV. <i>EFTT</i> is of type BoolYN . The default value is "N".
RATE	Data Rate. (DDS only) Note: Changing rates terminates the loopbacks on an OCUDP line unit due to the required reset on hardware. <i>RATE</i> is of type DdsRate . The default value is "56".
EC	Error Correction. (DDS only) This parameter is valid if there are no cross connections. A value of EC=Y is invalid if one cross connection exists for 56 and 64 kbps rates and cross connect must be deleted first. EC=Y is also invalid if two cross connections exist for 2.4, 4.8, 9.6 and 19.2 kbps rates and cross connect must be deleted first. A value of EC=N is invalid if two cross connection exists at any data rates and cross connection must be deleted first. <i>EC</i> is of type BoolYN . The default value is "N".
ZCS	Zero Code Supression. (DDS only) <i>ZCS</i> is of type BoolYN . The default value is "Y".
SC	Secondary Channel. (DDS only) This parameter is only valid for OCUDPx6 line unit. It can be entered for the DS0Dpx6 line unit, but it will be ignored. Note that SC=Y is invalid for 64 kbps rate. Also SC=N is always valid without any restrictions. <i>SC</i> is of type BoolYN . The default value is "N".
TIMEOUT	Latching Loopback Timeout (in minutes). (DDS only) If TIMEOUT = 0, Latching loopback

continues to operate, but it cancels the timer if active. If TIMEOUT > 0, the new timeout value is applied to the currently active latching loopback or subsequent loopback. If the new timeout value is greater than the previous value, the difference is applied to the currently outstanding timer. If the new timeout value is less than the previous value, the loopback terminates. If the new timeout value is the same as before, no further action is required. *TIMEOUT* is of type [LatchLpbkTimeout](#). The default value is "0".

LLBE	Latching LoopBack Enable. (DDS only) <i>LLBE</i> is of type BoolYN . The default value is "Y".
DDSTEST	DDS Test Mode (DDS only). The DDS card supports two modes of loop testing: Bipolar (analog) and Logic Near/Far (digital TTY). This parameter indicates which mode is to be used. <i>DDSTEST</i> is of type DdsTest . The default value is "LOGIC".
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String.
PST	Primary Service State. This is the service state which the user wants the entity to transition into. Note: For OOS, DDS service is disabled. For OCUDP, sealing current is removed. For IS, DDS service is enabled. For OCUDP, sealing current is applied. <i>PST</i> is of type PrimaryStateChg . The default value is "IS".
SST	Secondary Service State. The only secondary service states which can be changed are redline and SB. The redline state indicates that the line cannot be deleted unless, redline is removed from the service state first. SB indicates that both Tx and Rx should be suspended. It only applies when the PST is OOS. <i>SST</i> is of type SecondaryStateChg and is listable.

Input Example

```
ENT-T0:SYSTEM6:N28-3-12-
4:3234:::GSFN=2GS,RTLP=2.5,TTLP=3.0,Z=600,EBSLVL=AUTO,
EFTT=N,RATE=64,EC=N,ZCS=Y,SC=N,TIMEOUT=0,LLBE=Y,DDSTEST=DIGITAL,
DESC="DESCRIPTION":IS,RDLD;
```

Errors

This message generates all of the [Default Errors](#).

ENT-T1

Name

ENT-T1: Enter Digital Signal One

Description

Category: DS1 Facility **Security:** Memory Admin - by rate

This command creates a DS1 port within the system. The parameters provided within the command define

the type of services which will be provided by the DS1 port.

Defined in GR-199.

Related Messages:

[DLT-AP-T1](#)
[DLT-GOS-T1](#)
[ED-GOS-T1](#)
[ENT-AP-T1](#)
[ENT-GOS-T1](#)
[OPR-LPBK-T1](#)
[REPT EVT T1](#)
[REPT RST T1](#)
[RMV-T1](#)
[RTRV-ALM-T1](#)
[RTRV-CRS-T1](#)
[RTRV-PM-T1](#)

[DLT-CRS-T1](#)
[DLT-T1](#)
[ED-T1](#)
[ENT-CRS-T1](#)
[INIT-REG-T1](#)
[REPT ALM T1](#)
[REPT RMV T1](#)
[RLS-LPBK-T1](#)
[RST-T1](#)
[RTRV-COND-T1](#)
[RTRV-GOS-T1](#)
[RTRV-T1](#)

Input Format

```
ENT-
T1:[TID]:<Ds1Aid>:[CTAG]:::[ [TYPE=<TYPE>, ][T1MAP=<T1MAP>, ][EQLZ=<EQLZ>, ]
[ATTEN=<ATTEN>, ][PWR=<PWR>, ][FMT=<FMT>, ][LINECDE=<LINECDE>, ][GOS=<GOS>, ]
[PYLDSCRM=<PYLDSCRM>, ][ATMMON=<ATMMON>, ][EXT=<EXT>, ][PDOM=<PDOM>, ]
[NDS0RESVD=<NDS0RESVD>, ][TMGMODE=<TMGMODE>, ][DESC=<DESC> ]:[ <PST> , [ <SS> ]
;
```

Input Parameters

Ds1Aid	T1 Port Access Identifier. The address of the T1 port being modified. <i>Ds1Aid</i> is the AID TwelvePortLuAid .
TYPE	TYPE of T1. This indicates whether the port is to be configured as a DS1 or a T1. <i>TYPE</i> is of type T1Type . The default value is "DS1".
T1MAP	MAPping of the payload signal. When payload signal is a form that may be altered at the T1 port, this parameter specifies the mapping. Otherwise, its value should be NA. Default values for T1MAP will be NA for DS1A-12 cards and SEQ for both T1-6 and T1-6A+T cards. <i>T1MAP</i> is of type T1Map .
EQLZ	Equalization. Indicates equalization setting (aka Line Build Out). It applies only when TYPE=DS1. <i>EQLZ</i> is of type Equalization . The default value is "300".
ATTEN	ATTENuation. Indicates the attenuation for T1 lines. It applies only when TYPE=T1. <i>ATTEN</i> is of type Attenuation . The default value is "0.0".
PWR	Line PoWeRing. This parameter indicates whether the line is to supply power. <i>PWR</i> is of type T1Pwr . The default value is "SINK".
FMT	DS1 Format. This parameter indicates DS1 signal format. Default values for FMT will be UF for DS1A-12 cards and ESF for both T1-6 and T1-6A+T cards. <i>FMT</i> is of type

[FormatSignal](#).

LINECDE	Line Code. This is the provisioned DS1 line coding. <i>LINECDE</i> is of type LineCode . The default value is "B8ZS".
GOS	Grade of Service Access Identifier. This is the T1 Grade of Service which is to be applied to the DS1. <i>GOS</i> is the AID GosAid . The default value is "OFF".
PYLDSCRM	Payload Scrambling. This parameter is set to Y to enable the scrambling of ATM cells. It is only applicable when T1MAP is UNI or NNI. <i>PYLDSCRM</i> is of type BoolYN . The default value is "N".
ATMMON	ATM Diagnostic Monitoring. This parameter is set to Y to enable ATM diagnostic monitoring on the STS path. If enabled, an ATM OAM loopback ping is injected on VP0-VC3 to verify point-to-point connectivity with the next line unit. It applies only to ATMNNI and ATMUINI interfaces. The default value is Y for internal interfaces and N for external interfaces. <i>ATMMON</i> is of type BoolYN .
EXT	External Interface. This indicates if the T1 is an internal or external path in the network. The value should be set to "Y" when the port is an external interface. It should be set to "N" when the port is connected to other shelves within a network of C7s. This parameter is valid only if T1MAP is NNI. Note that this parameter must be changed independently of others, ie. a separate ED-T1 command is required. <i>EXT</i> is of type BoolYN . The default value is "Y".
PDOM	Protection DOMain. This is an integer that is used to associate a transport facility into a protection domain that is used for A to Z connection provisioning. The PDOM for each domain must be a unique non-zero integer. The value of 0 is reserved to indicate that the facility is not to be used for A to Z connections. <i>PDOM</i> is of type Pdom . The default value is "0".
NDS0RESVD	Number of Reserved DS0s. This parameter indicates the number of sequential DS0s that are to be reserved in a T1 facility that has a non-DS0 mapping for the remainder of its payload. The DS0s reserved are sequential decreasing from time slot 24. This parameter is only applicable when T1MAP is NNI or UNI. <i>NDS0RESVD</i> is a Integer. The default value is "0".
TMGMODE	Timing Mode. This parameter selects the timing source for the T1 port transmit signal. TMGMODE defaults to LOOP for ATM interfaces (i.e. T1MAP of UNI or NNI). For non-ATM interfaces, TMGMODE will default to LOOP when FMT=UF, else TMGMODE will default to SOURCE. <i>TMGMODE</i> is of type T1TimingMode . The default value is "SOURCE".
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String.
PST	Primary Service State. This is the service state which the user wants the entity to transition into. <i>PST</i> is of type PrimaryStateChg . The default value is "IS".
SST	Secondary Service State. The only secondary service state which is provisionable is SB. It only applies when the PST is OOS. <i>SST</i> is of type SecondaryStateChgSB .

Input Example

```
ENT-T1:SYS3:N4-3-5-
2:432::::TYPE=T1,T1MAP=NA,EQLZ=3,ATTEN=0.0,PWR=SINK,FMT=ESF,
LINECDE=AMI,GOS=3,PYLDSCRM=N,ATMMON=Y,EXT=Y,PDOM=1,NDS0RESVD=0,
TMGMODE=SOURCE,DESC="DESCRIPTION":OOS,SB;
```

Errors

This message generates all of the [Default Errors](#).

ENT-T1TG

Name

ENT-T1TG: Enter T1 Transport Group

Description

Category: TDM Services **Security:** Memory Admin - by rate

Command to create an internal T1 Transport interface Group.

Related Messages:

ALW-Swdx-GR303	ALW-Swdx-T1TG
DLT-CRS-T0	DLT-GR303
DLT-GR8	DLT-IG-DS1
DLT-T1TG	ED-GR303
ED-GR8	ENT-CRS-T0
ENT-GR303	ENT-GR8
ENT-IG-DS1	INH-Swdx-GR303
INH-Swdx-T1TG	REPT ALM GR303
REPT ALM T1TG	REPT EVT GR303
REPT EVT T1TG	REPT SW GR303
REPT SW T1TG	RTRV-ALM-GR303
RTRV-ALM-T1TG	RTRV-COND-GR303
RTRV-COND-T1TG	RTRV-CRS-T0
RTRV-DLSTAT-GR303	RTRV-DLSTAT-T1TG
RTRV-GR303	RTRV-GR8
RTRV-IG-DS1	RTRV-T1TG
SW-DX-GR303	SW-DX-T1TG

Input Format

ENT-T1TG:[TID]:<IdtIgAid>,<RdtIgAid>:[CTAG];
--

Input Parameters

IdtIgAid IdtIgAid is an IDT T1 transport interface group. T1 transport interface groups form IDT/RDT pairs. The IDT is the T1 connection endpoint closer to the network side of the interface and is therefore the subscriber-facing interface group. *IdtIgAid* is the AID [IgAid](#).

RdtIgAid RdtIgAid is an RDT T1 transport interface group. T1 transport interface groups form IDT/RDT pairs. The RDT is the T1 connection endpoint closer to the subscriber side of the interface and is therefore the network-facing interface group. *RdtIgAid* is the AID [IgAid](#).

Input Example

```
ENT-T1TG::N1-1-IG2,N2-1-IG3:43;
```

Errors

This message generates all of the [Default Errors](#).

ENT-T3

Name

ENT-T3: Enter Digital Signal 3

Description

Category: DS3 Facility **Security:** Memory Admin - by rate

This command creates a DS3 port within the system. The parameters provided within the command define the type of services which will be provided by the DS3 port.

Defined in GR-199.

Related Messages:

[DLT-GOS-T3](#)
[ED-GOS-T3](#)
[ENT-GOS-T3](#)
[OPR-LPBK-T3](#)
[REPT EVT T3](#)
[REPT RST T3](#)
[RMV-T3](#)
[RTRV-ALM-T3](#)
[RTRV-GOS-T3](#)
[RTRV-T3](#)

[DLT-T3](#)
[ED-T3](#)
[INIT-REG-T3](#)
[REPT ALM T3](#)
[REPT RMV T3](#)
[RLS-LPBK-T3](#)
[RST-T3](#)
[RTRV-COND-T3](#)
[RTRV-PM-T3](#)

Input Format

```
ENT-T3:[TID]:<Ds3Aid>:[CTAG]:::[ [INTF=<INTF>,][AIS=<AIS>],[AIST=<AIST>],[  
[IDLE=<IDLE>],[FMT=<FMT>],[LBO=<LBO>],[GOS=<GOS>],[EXT=<EXT>],[ATM=<ATM>,  
[PYLDSCRM=<PYLDSCRM>],[ATMMON=<ATMMON>],[PDOM=<PDOM>],[TMGMODE=<TMGMODE>,  
[DESC=<DESC>]]:[<PST>],[<SST>];
```

Input Parameters

Ds3Aid	T3 Port Access Identifier. The address of the T3 port being modified. <i>Ds3Aid</i> is the AID T3Aid .
INTF	Interface Type. The type of interface being provided by the DS3. When the equipment type is DS3-12s the interface type must be CCHAN. When the equipment type is DS3-12p, the interface type must be either NNI or UNI. <i>INTF</i> is of type T3Interface .
AIS	Alarm Indication Signal. Indicates whether AIS is transmitted from the DS3 being provisioned. <i>AIS</i> is of type BoolYN . The default value is "N".
AIST	AIS Type. This parameter indicates the type of the AIS signal to be generated/transmitted, and the AIS signal mode expected on input should a failure condition occur. When the card type is a DS3-12p, then only a value of NAS will be accepted. <i>AIST</i> is of type AisType . The default value is "NAS".
IDLE	Idle signal. This parameter indicates the transmission or non-transmission of the IDLE signal. For Ds3S(CCHAN) card IDLE can be transmitted only in the INGRESS direction and not the EGRESS direction. For Ds3 packet card IDLE can be transmitted only in the EGRESS direction. <i>IDLE</i> is of type Idle . The default value is "OFF".
FMT	DS3 Format. This parameter indicates DS3 signal format. When the INTF is UNI or NNI, then the format must be CBIT. When the INTF is CCHAN, then either CBIT or M23 is valid. <i>FMT</i> is of type FormatT3 . The default value is "CBIT".
LBO	Line Build Out. This parameter indicates the line build out setting. <i>LBO</i> is a Integer. The default value is "100".
GOS	Grade of Service Access Identifier. This is the T3 Grade of Service which is to be applied to the DS3. <i>GOS</i> is the AID GosAid . The default value is "OFF".
EXT	External Interface. This indicates if the T3 is an internal or external path in the network. The value should be set to "Y" when the port is an external interface. It should be set to "N" when the port is connected to other shelves within a network of C7s. For INTF=CCHAN, EXT must be Y. Note that this parameter must be changed independently of others, ie. a separate ED-T3 command is required. <i>EXT</i> is of type BoolYN . The default value is "Y".
ATM	ATM Mapping. This parameter indicates how the ATM payload is mapped into the DS3 Frame. If the INTF parameter is set to CCHAN this parameter is invalid. <i>ATM</i> is of type ATMPayload . The default value is "DIRECT".
PYLDSCRM	Payload Scrambling. This parameter is set to Y to enable the scrambling of ATM cells. If the INTF parameter is set to CCHAN this parameter is invalid. <i>PYLDSCRM</i> is of type BoolYN . The default value is "Y".
ATMMON	ATM Diagnostic Monitoring. This parameter is set to Y to enable ATM diagnostic

monitoring on the STS path. If enabled, an ATM OAM loopback ping is injected on VP0-VC3 to verify point-to-point connectivity with the next line unit. It applies only to ATMNNI and ATMUNI interfaces. The default value is Y for internal interfaces and N for external interfaces. *ATMMON* is of type [BoolYN](#).

PDOM	Protection domain. This is an integer that is used to associate FFPs into a coordinated protection domain. The PDOM for each domain must be a unique integer. If the INTF parameter is set to CCHAN this parameter is invalid. <i>PDOM</i> is of type Pdom . The default value is "0".
TMGMODE	Timing Mode. This parameter selects the timing source for the T3 port transmit signal. TMGMODE is only relevant to DS3E cards. Timing Mode defaults to SOURCE. <i>TMGMODE</i> is of type DS3TimingMode .
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String.
PST	Primary Service State. This is the service state which the user wants the entity to transition into. <i>PST</i> is of type PrimaryStateChg . The default value is "IS".
SST	Secondary Service State. The only secondary service state which is provisionable is SB. It only applies when the PST is OOS. <i>SST</i> is of type SecondaryStateChgSB .

Input Example

```
ENT-T3:SYS32:N189-3-3-
9:292:::INTF=UNI,AIS=Y,AIST=ONES, IDLE=OFF, FMT=CBIT,
LBO=3,GOS=3,EXT=Y,ATM=DIRECT,PYLDSCRM=Y,ATMMON=Y,PDOM=0,TMGMODE=SOURCE,
DESC="DESCRIPTION":OOS,SB;
```

Errors

This message generates all of the [Default Errors](#).

ENT-TGRP

Name

ENT-TGRP: Enter Test Group

Description

Category: Loop Testing **Security:** System Administration

This command creates a new test group.

A test group is the group of shelves which have a single test bus which chains the shelves together. The AID references the Amp in the first shelf in the test group; this Amp will act as the test controller and must be present when a test is started.

Defined by Calix and modeled after ENT-rr in GR-199.

Related Messages:

[CHG-SPLIT](#)

[CONN-LPACC-MET](#)

[CONN-TACC-MET](#)

[DISC-TACC](#)

[ED-FPACC](#)

[REPT-STAT](#)

[RTRV-TGRP](#)

[TST-ONT-MET](#)

[CONN-FPACC-MET](#)

[CONN-MON](#)

[DISC-FPACC-MET](#)

[DLT-TGRP](#)

[ED-TGRP](#)

[RTRV-FPACC](#)

[TST-ITACC-MET](#)

Input Format

```
ENT-TGRP : [TID] :<MsAid> : [CTAG] :: : TBUS=<TBUS> ;
```

Input Parameters

MsAid Maintenance Slot Access Identifier. The address of the maintenance slot which controls the test bus. *MsAid* is the AID [MsAid](#).

TBUS Test Bus. This parameter indicates which shelves are connected (via wiring) to the maintenance slot which controls the test bus. *TBUS* is the AID [ShelfAid](#) and is listable.

Input Example

```
ENT-TGRP : SYS3:N6-1-MS : CTAG :: : TBUS=N6-2&N6-3 ;
```

Errors

This message generates all of the [Default Errors](#).

ENT-TMPLT-ADSL

Name

ENT-TMPLT-ADSL: Enter Template Asymmetric Digital Subscriber Line

Description

Category: ADSL Facility**Security:** Memory Admin - by rate

This command defines an ADSL template. The ADSL template is used to define general level services based on service type, upstream and downstream rates, signal to noise ratio, excess rates, latency, channel selection and trellis coding which can be applied to any ADSL port within the system.

This allows the user to define levels of ADSL service and then assign the levels to different customers.

Service Type -- single-channel

Service Type	XDSR0 (Max DS 0)	MDSR0 (Min DS 0)	XUSR0 (Max US 0)	MUSR0 (Min US 0)
MM	32-16352 (8160)	32-16352 (384)	32-2048 (800)	32-2048 (128)
MM2+	32-32736 (32736)	32-32736 (384)	32-2048 (800)	32-2048 (128)
G.DMT	32-16352 (8160)	32-16352 (384)	32-2048 (800)	32-2048 (128)
G.LITE	32-1536 (1536)	32-1536 (384)	32-512 (512)	32-512 (128)
T1.413	32-16352 (8160)	32-16352 (384)	32-2048 (800)	32-2048 (128)
ADSL2	32-16352 (16352)	32-16352 (384)	32-2048 (800)	32-2048 (128)
ADSL2+	32-32736 (32736)	32-32736 (384)	32-2048 (800)	32-2048 (128)
READSL2	32-1536 (1536)	32-1536 (384)	32-512 (512)	32-512 (128)
ANNEXM	32-32736 (32736)	32-32736 (384)	32-3072 (800)	32-3072 (128)

Note: Currently, only single-channel mode is supported.

Note: all values in kbps and multiples of 32.

Note: default values are in parentheses.

Note: the Minimum rates cannot be bigger than the Maximum rates for the same direction (up/down-stream)

There are two methods of provisioning: "best effort" and "fixed rate" In best effort provisioning, the minimum rates are set low and the maximum rates are set high so as to allow the modem to adapt to the best values within the range. In fixed rate provisioning, the user sets the minimum and maximum rates to the same value, forcing the modem to that value. It should be noted that thus setting the minimum to some value towards the maximum end of the range can cause problems with modem synchronization.

Tone Configuration

The user may optionally select the index of the start and end tones in upstream and downstream directions. This feature does not apply to the MM service type.

If any one of DSST, DSET, USST, or USET is zero, the chipset default tone configurations will be used and these provisioned values will be ignored. Ranges and defaults for the supported service types are shown in the following table.

Service Type	DSST	DSET	USST	USET
GDMT, GLITE, T1413, ADSL2	32-255 (32)	32-255 (255)	6-30 (6)	6-30 (30)
ADSL2+, ANNEXM	32-511(32)	32-511 (511)	6-30 (6)	6-30 (30)

Power Management

The Power Management parameters (PMMODE, L0TIME, L2TIME, L2ATPR, L2MINR, L2EXITR, L2ENTRYR, L2ENTRYT) apply for service types: ADSL2, ADSL2+, READSL2, MM2+.

Rate Adaptation

The Rate Adaptation parameters (RADMDS, RADMUS, RAUMDS, RAUMUS) apply for service types: ADSL2, ADSL2+, READSL2, MM2+. They must satisfy the relationships:

MMDS <= RADMDS <= TMDS <= RAUMDS <= XMDS, and

MMUS <= RADMUS <= TMUS <= RAUMUS <= XMUS

Parameter Defaults

All parameters not specified in the request will default to those values defined by the built-in profile corresponding to the service type used for the request. The default SRVTYPE is MM.

Defined by Calix and modeled after ENT-rr in GR-199.

Related Messages:

[DLT-ADSL](#)
[DLT-TMPLT-ADSL](#)
[ED-GOS-ADSL](#)
[ENT-GOS-ADSL](#)
[INIT-PWR-ADSL](#)
[REPT ALM ADSL](#)
[REPT RMV ADSL](#)
[RMV-ADSL](#)
[RTRV-ADSL](#)
[RTRV-COND-ADSL](#)
[RTRV-GOS-ADSL](#)
[RTRV-TMPLT-ADSL](#)

[DLT-GOS-ADSL](#)
[ED-ADSL](#)
[ENT-ADSL](#)
[INIT-ADSL](#)
[INIT-REG-ADSL](#)
[REPT EVT ADSL](#)
[REPT RST ADSL](#)
[RST-ADSL](#)
[RTRV-ALM-ADSL](#)
[RTRV-CSTAT-ADSL](#)
[RTRV-PM-ADSL](#)

Input Format

```
ENT-TMPLT-
ADSL:[TID]:<DslProfAid>:[CTAG]:::<SRVTYPE>,[<CHNL0>],[<CHNL1>]:
  [<XDSR0=<XDSR0>,>][<MDSR0=<MDSR0>,>][<XUSR0=<XUSR0>,>][<MUSR0=<MUSR0>,>]
  [<XDSR1=<XDSR1>,>][<MDSR1=<MDSR1>,>][<XUSR1=<XUSR1>,>][<MUSR1=<MUSR1>,>]

  [<DSEXR=<DSEXR>,>][<USEXR=<USEXR>,>][<TMDS=<TMDS>,>][<XMDS=<XMDS>,>][<MMDS=<MMDS>,>]
  [<TMUS=<TMUS>,>][<XMUS=<XMUS>,>][<MMUS=<MMUS>,>][<DSLAT=<DSLAT>,>][<USLAT=<USLAT>,>]
  [<TC=<TC>,>][<RAMODEDS=<RAMODEDS>,>][<RA MODEUS=<RA MODEUS>,>][<RAUMDS=<RAUMDS>,>]
  [<RADMDS=<RADMDS>,>][<RAUTDS=<RAUTDS>,>][<RADTDS=<RADTDS>,>][<RAUMUS=<RAUMUS>,>]
  [<RADMUS=<RADMUS>,>][<RAUTUS=<RAUTUS>,>][<RADTUS=<RADTUS>,>][<PMMODE=<PMMODE>,>]
  [<L0TIME=<L0TIME>,>][<L2TIME=<L2TIME>,>][<L2ATPR=<L2ATPR>,>][<L2MINR=<L2MINR>,>]
  [<L2EXITR=<L2EXITR>,>][<L2ENTRYR=<L2ENTRYR>,>][<L2ENTRYT=<L2ENTRYT>,>]
  [<DSST=<DSST>,>][<DSET=<DSET>,>][<USST=<USST>,>][<USET=<USET>,>][<DESC=<DESC>,>];
```

Input Parameters

DslProfAid	ADSL Profile Access Identifier. The address of the specific entry in ADSL Profile table. <i>DslProfAid</i> is the AID DslProfProvAid .
SRVTYPE	Service Type. This parameter specifies the ADSL operating modes which dictate the ADSL handshaking protocol, channel capacity, and other physical line characteristics. <i>SRVTYPE</i> is of type AdslType . The default value is "MM".
CHNL0	Channel 0 Selection/Allocation. Settings for channel path latency. Choosing a latency path of Fast means minimum (2 ms) delay is expected while choosing a latency path of Interleaved means more delay. <i>CHNL0</i> is of type ChnlSelect0 . The default value is "INTLV".
CHNL1	Channel 1 Selection/Allocation. Settings for channel path latency. Choosing a latency path of Fast means minimum (2 ms) delay is expected while choosing a latency path of Interleaved means more delay. <i>CHNL1</i> is of type ChnlSelect1 . The default value is "DISABLE".
XDSR0	Maximum Downstream Rate - Channel 0. <i>XDSR0</i> is of type DwnStreamRate .
MDSR0	Minimum Downstream Rate - Channel 0. <i>MDSR0</i> is of type DwnStreamRate . The default value is "384".
XUSR0	Maximum Upstream Rate - Channel 0. <i>XUSR0</i> is of type UpStreamRate .
MUSR0	Minimum Upstream Rate - Channel 0. <i>MUSR0</i> is of type UpStreamRate . The default value is "128".
XDSR1	Maximum Downstream Rate - Channel 1. <i>XDSR1</i> is of type DwnStreamRate .
MDSR1	Minimum Downstream Rate - Channel 1. <i>MDSR1</i> is of type DwnStreamRate .
XUSR1	Maximum Upstream Rate - Channel 1. <i>XUSR1</i> is of type UpStreamRate .
MUSR1	Minimum Upstream Rate - Channel 1. <i>MUSR1</i> is of type UpStreamRate .
DSEXR	Downstream Excess Rate Ratio. The ratio configuration values, 1 for downstream and 1 for upstream, specify the ratio (expressed in %) of excess bit rate that is to be applied to the primary bearer channel before applying bit rate to the secondary bearer channel. The primary channel will always be channel 0. The excess bit rate is the rate considered for rate adaptation amongst the primary and secondary channels (Channel 0 and Channel 1). The rate that can be considered excess is the rate in excess of the minimum bit rate parameter for each DS and US channel. <i>DSEXR</i> is of type ExcessRate . The default value is "100".
USEXR	Upstream Excess Rate Ratio. The ratio configuration values, 1 for downstream and 1 for upstream, specify the ratio (expressed in %) of excess bit rate that is to be applied to the primary bearer channel before applying bit rate to the secondary bearer channel. The primary channel will always be channel 0. The excess bit rate is the rate considered for rate adaptation amongst the primary and secondary channels (Channel 0 and Channel 1). The rate that can be considered excess is the rate in excess of the minimum bit rate parameter for each DS and US channel. <i>USEXR</i> is of type ExcessRate . The default value is "100".
TMDS	Target Downstream SNR Margin. This parameter specifies the target signal to noise ratio which basically quantifies the quality of the physical line through which the DSL signal flows. <i>TMDS</i> is of type SnrTargetMargins . The default value is "8".
XMDS	Maximum Downstream SNR Margin. This parameter specifies the maximum signal to noise ratio (SNR) which basically quantifies the quality of the physical line through

which the DSL signal flows. The SNR margin setting specifies the "padding" beyond the minimum required SNR in order for the DSL link to stay up at a certain data rate. For example, if the SNR margin is set to a positive value, it guarantees that if the SNR of the line suddenly drops below the minimum requirement but not below the "padded" value (i.e. min. required SNR + SNR margin) that the link will stay connected. *XMD5* is of type [SnrMaxMargins](#). The default value is "16".

MMDS Minimum Downstream SNR Margin. This parameter specifies the minimum signal to noise ratio (SNR) which basically quantifies the quality of the physical line through which the DSL signal flows. The SNR margin setting specifies the "padding" beyond the minimum required SNR in order for the DSL link to stay up at a certain data rate. For example, if the SNR margin is set to a positive value, it guarantees that if the SNR of the line suddenly drops below the minimum requirement but not below the "padded" value (i.e. min. required SNR + SNR margin) that the link will stay connected. *MMDS* is of type [SnrMinMargins](#). The default value is "0".

TMUS Target Upstream SNR Margin. This parameter specifies the target signal to noise ratio which basically quantifies the quality of the physical line through which the DSL signal flows. *TMUS* is of type [SnrTargetMargins](#). The default value is "8".

XMUS Maximum Upstream SNR Margin. This parameter specifies the maximum signal to noise ratio (SNR) which basically quantifies the quality of the physical line through which the DSL signal flows. The SNR margin setting specifies the "padding" beyond the minimum required SNR in order for the DSL link to stay up at a certain data rate. For example, if the SNR margin is set to a positive value, it guarantees that if the SNR of the line suddenly drops below the minimum requirement but not below the "padded" value (i.e. min. required SNR + SNR margin) that the link will stay connected. *XMUS* is of type [SnrMaxMargins](#). The default value is "16".

MMUS Minimum Upstream SNR Margin. This parameter specifies the minimum signal to noise ratio (SNR) which basically quantifies the quality of the physical line through which the DSL signal flows. The SNR margin setting specifies the "padding" beyond the minimum required SNR in order for the DSL link to stay up at a certain data rate. For example, if the SNR margin is set to a positive value, it guarantees that if the SNR of the line suddenly drops below the minimum requirement but not below the "padded" value (i.e. min. required SNR + SNR margin) that the link will stay connected. *MMUS* is of type [SnrMinMargins](#). The default value is "0".

DSLAT Downstream Latency. Latency is the delay in data transmission through the DSL link. Latency parameter is configured in milliseconds. The AUTO setting allows the ADSL card to pick the most appropriate interleave latency. NOTE: If both DSLAT and USLAT are set to the value "AUTO", neither parameter can be changed individually. Both of these parameters must be set to a numeric value at the same time in order to change them. The "AUTO" value must be set for both DSLAT and USLAT if you want to use "AUTO" for either direction. *DSLAT* is of type [Latency](#). The default value is "AUTO".

USLAT Upstream Latency. Latency is the delay in data transmission through the DSL link. Latency parameter is configured in milliseconds. The AUTO setting allows the ADSL card to pick the most appropriate interleave latency. NOTE: If both DSLAT and USLAT are set to the value "AUTO", neither parameter can be changed individually. Both of these parameters must be set to a numeric value at the same time in order to change them. The "AUTO" value must be set for both DSLAT and USLAT if you want to use "AUTO" for either direction. *USLAT* is of type [Latency](#). The default value is "AUTO".

TC Trellis Coding. Trellis Coding is an encoding scheme for piggybacking bits onto the electrical signal on the twisted pair. Turning on this parameter will improve the DSL system performance. *TC* is of type [TrellisCoding](#). The default value is "ENABLED".

RAMODEDS	Rate Adaptation MODE DownStream. <i>RAMODEDS</i> is of type RateAdaptationMode . The default value is "INIT".
RAMODEUS	Rate Adaptation MODE UpStream. <i>RAMODEUS</i> is of type RateAdaptationMode . The default value is "INIT".
RAUMDS	Rate Adaptation Upshift Margin DownStream (dB). This applies when RAMODE is DYNAMIC. <i>RAUMDS</i> must be greater than <i>RADMDS</i> . <i>RAUMDS</i> is of type SnrMaxMargins . The default value is "9".
RADMDS	Rate Adaptation Downshift Margin DownStream (dB). This applies when RAMODE is DYNAMIC. <i>RAUMDS</i> must be greater than <i>RADMDS</i> . <i>RADMDS</i> is of type SnrMaxMargins . The default value is "3".
RAUTDS	Rate Adaptation Upshift Time Downstream (seconds). This applies when RAMODE is DYNAMIC. <i>RAUTDS</i> is of type RateAdaptationMarginSeconds . The default value is "60".
RADTDS	Rate Adaptation Downshift Time Downstream (seconds). This applies when RAMODE is DYNAMIC. <i>RADTDS</i> is of type RateAdaptationMarginSeconds . The default value is "60".
RAUMUS	Rate Adaptation Upshift Margin UpStream (dB). This applies when RAMODE is DYNAMIC. <i>RAUMUS</i> must be greater than <i>RADMUS</i> . <i>RAUMUS</i> is of type SnrMaxMargins . The default value is "9".
RADMUS	Rate Adaptation Downshift Margin UpStream (dB). This applies when RAMODE is DYNAMIC. <i>RAUMUS</i> must be greater than <i>RADMUS</i> . <i>RADMUS</i> is of type SnrMaxMargins . The default value is "3".
RAUTUS	Rate Adaptation Upshift Time UpStream (seconds). This applies when RAMODE is DYNAMIC. <i>RAUTUS</i> is of type RateAdaptationMarginSeconds . The default value is "60".
RADTUS	Rate Adaptation Downshift Time UpStream (seconds). This applies when RAMODE is DYNAMIC. <i>RADTUS</i> is of type RateAdaptationMarginSeconds . The default value is "60".
PMMODE	Power Management MODE. <i>PMMODE</i> is of type AdslPowerMgmtStates . The default value is "L0".
L0TIME	Minimum L0 Time interval between L2 exit and next L2 entry. (0-255 seconds) <i>L0TIME</i> is a Integer. The default value is "255".
L2TIME	Minimum L2 time interval between L2 entry and first L2 trim. (0-255 seconds) <i>L2TIME</i> is a Integer. The default value is "25".
L2ATPR	Maximum Aggregate Transmit Power Reduction per L2 trim. (dB) <i>L2ATPR</i> is of type SnrMaxMargins . The default value is "3".
L2MINR	Minimum Data Rate in Low Power Mode (L2). This parameter specifies the minimum net data rate (in Kbps) during the low power state. If the actual user data rate is lower than <i>L2MINR</i> , raw cells will be injected to maintain the provisioned value. The value can range from 256 to 1024 Kbps. <i>L2MINR</i> is a Integer. The default value is "1024".
L2EXITR	L2 Exit Rate Threshold. This parameter specifies the downstream datarate threshold (in Kbps), which triggers exit from low power state (L2). The value ranges between 1 and 1024 Kbps, and must be less than <i>L2MINR</i> . <i>L2EXITR</i> is a Integer. The default value is "512".

L2ENTRYR	L2 Entry Rate Threshold. This parameter specifies the downstream data rate threshold (in Kbps), which triggers autonomous entry into low power state (L2). The value can range from 1 to 1024, and must be less or equal to L2EXITR. <i>L2ENTRYR</i> is a Integer. The default value is "1".
L2ENTRYT	L2 Entry Time Threshold. This parameter specifies minimum interval of time (in seconds) that the net data rate should stay below L2ENTRYR before autonomous entry into low power state (L2). The value can range from 900 to 65535 seconds. <i>L2ENTRYT</i> is a Integer. The default value is "1800".
DSST	DownStream Start Tone index. DSST must be less than or equal to DSET. <i>DSST</i> is a Integer. The default value is "0".
DSET	DownStream End Tone index. DSET must be greater than or equal to DSST. <i>DSET</i> is a Integer. The default value is "0".
USST	UpStream Start Tone index. USST must be less than or equal to USET. <i>USST</i> is a Integer. The default value is "0".
USET	UpStream End Tone index. USET must be greater than or equal to USST. <i>USET</i> is a Integer. The default value is "0".
DESC	DESCription. A user-settable description field, up to 11 characters. The description defaults to be the template address/index number. <i>DESC</i> is a String.

Input Example

```
ENT-TMPLT-ADSL:1234:4:12345::GDMT,FAST,DISABLE:XDSR0=48,MDSR0=32,XUSR0=32,
MUSR0=32,XDSR1=32,MDSR1=32,XUSR1=32,MUSR1=32,DSEXR=50,USEXR=50,TMDS=6,
XMDS=31,MMDS=0,TMUS=6,XMUS=31,MMUS=0,DSLAT=24,USLAT=24,TC=ENABLED,
RAMODEDS=DYNAMIC,RAMODEUS=DYNAMIC,RAUMDS=31,RADMDS=0,RAUTDS=30,RADTDS=30,
RAUMUS=31,RADMUS=0,RAUTUS=30,RADTUS=30,PMODE=L2,L0TIME=5,L2TIME=5,
L2ATPR=2,L2MINR=1024,L2EXITR=512,L2ENTRYR=1,L2ENTRYT=1800,DSST=32,DSET=511,
USST=6,USET=30,DESC="4";
```

Errors

This message generates all of the [Default Errors](#).

ENT-TMPLT-SECU

Name

ENT-TMPLT-SECU: ENT TMPLT SECU

Description

Category: Security

Security: Security Administrator

This command creates a security template which is used to set default values for user IDs.

Related Messages:

[ALW-MSG-SECU](#)
[CANC-CID-SECU](#)
[DLT-TMPLT-SECU](#)
[ED-RADIUS](#)
[ED-TMPLT-SECU](#)
[ENT-USER-SECU](#)
[INH-USER-SECU](#)
[REPT EVT SECU](#)
[RTRV-COND-SECU](#)
[RTRV-STATUS](#)
[RTRV-TMPLT-SECU](#)

[ALW-USER-SECU](#)
[CANC-SES-SECU](#)
[DLT-USER-SECU](#)
[ED-SYS-SECU](#)
[ED-USER-SECU](#)
[INH-MSG-SECU](#)
[REPT ALM SECU](#)
[RTRV-ALM-SECU](#)
[RTRV-RADIUS](#)
[RTRV-SYS-SECU](#)
[RTRV-USER-SECU](#)

Input Format

```
ENT-TMPLT-
SECU:[TID]:<SecuTmpltAid>:[CTAG]:::[ [ PAGE=<PAGE> , ] [ PCND=<PCND> , ]
[ TMOUT=<TMOUT> , ] [ UAPMA=<UAPMA> , ] [ UAPMT=<UAPMT> , ] [ UAPSE=<UAPSE> , ]
[ UAPSY=<UAPSY> , ] [ UAPTS=<UAPTS> , ] [ NODEAID=<NODEAID> , ] [ ENTADA=<ENTADA> , ]
[ DESC=<DESC> ] ];
```

Input Parameters

SecuTmpltAid This is the Access Identifier of the Security Template to be created. *SecuTmpltAid* is the AID [SecuTmpltProvAid](#).

PAGE Password Aging Interval. The password aging interval is expressed in days. An integer less than or equal to 999, typically 45 to 60. At the end of the interval the user is notified that the existing password needs to be changed each time they log in. A value of zero indicates the user's password will never expire. *PAGE* is of type [UserInterval](#). The default value is "45".

PCND Password ChaNge Days. This parameter specifies the number of days the user has between the time they are first notified that they must change their password and the time their USERID is disabled. *PCND* is of type [UserInterval](#). The default value is "7".

TMOUT TiMe OUT. This parameter specifies the number of minutes of inactivity that must pass before their session is automatically logged out. A value of zero indicates that the user's sessions are never to be logged out due to inactivity. *TMOUT* is of type [TimeOut](#). The default value is "10".

UAPMA User Access Privilege for Memory Administration. This parameter specifies the abilities of a user for executing memory administration commands. *UAPMA* is of type [AcsPrv](#). The default value is "NONE".

UAPMT User Access Privilege for MainTenance. This parameter specifies the abilities of a user for executing maintenance commands. *UAPMT* is of type [AcsPrv](#). The default value is "NONE".

UAPSE	User Access Privilege for SEcurity. This parameter specifies the abilities of a user for executing security commands. <i>UAPSE</i> is of type AcsPrv . The default value is "MIN".
UAPSY	User Access Privilege for SYstem. This parameter specifies the abilities of a user for executing system commands. <i>UAPSY</i> is of type AcsPrv . The default value is "NONE".
UAPTS	User Access Privilege for TeSting. This parameter specifies the abilities of a user for executing testing commands. <i>UAPTS</i> is of type AcsPrv . The default value is "NONE".
NODEAID	Use NODE Access IDentifier. This parameter is set to Y (Yes) if AIDs in responses to this user are to contain node identifiers. This is the normal setting. N (No) needs to be specified for Operations Systems (such as NMA) that cannot tolerate node identifiers. For these systems, AIDs for the same node as was identified in the TID of the command will have the Nx- deleted from the AID in responses and autonomous reports. For input, the node identifier may be omitted if the node is the same as is identified in the TID. <i>NODEAID</i> is of type BoolYN . The default value is "Y".
ENTADA	This boolean flag determines whether or not the user may perform an ENTer on an object that is in ADA state. <i>ENTADA</i> is of type BoolYN .
DESC	A string description of this object, up to 11 characters in length. <i>DESC</i> is a String.

Input Example

```
ENT-TMPLT-
SECU:SYS1:6:555:::PAGE=30,PCND=1,TMOUT=0,UAPMA=FULL,UAPMT=FULL,
UAPSE=MIN,UAPSY=MIN,UAPTS=FULL,NODEAID=Y,ENTADA=Y,DESC=DESC;
```

Errors

This message generates all of the [Default Errors](#).

ENT-TMPLT-VLANVBPORT

Name

ENT-TMPLT-VLANVBPORT: Enter Template VLANVBPORT

Description

Category: IP **Security:** Memory Admin - by rate

Enter Template for VLANVBPORT.

This template specifies default parameters used when VLAN-VBPORT or VBPORT instances are created automatically as a result of ENT-CRS-VC.

Input Format

```
ENT-TMPLT-VLANVBPORT:[TID]:<VlanVbPortTmpltAid>:[CTAG]:::[ [ARP=<ARP>, ]
[DHCP=<DHCP>, ][OPT82ACT=<OPT82ACT>, ][IGMP=<IGMP>, ][PPPOEAC=<PPPOEAC>, ]
[PPPOESUB=<PPPOESUB>, ][LSVID=<LSVID>, ][PRIO=<PRIO>, ][TAGGING=<TAGGING>, ]
[ENCAP=<ENCAP>, ][DOS=<DOS>, ][STP=<STP>, ][STPCOST=<STPCOST>, ]
[STPPRIO=<STPPRIO>, ][DIRN=<DIRN>, ][STAGTYPE=<STAGTYPE>, ]
[LEARNING=<LEARNING>, ][PORTTYPE=<PORTTYPE>, ][DESC=<DESC>]];
```

Input Parameters

VlanVbPortTmpltAid	Vlan VBPort Template - This is the access identifier of the Template. <i>VlanVbPortTmpltAid</i> is the AID VlanPortTmpltRngAid .
ARP	(VLAN-VBPORT) Enable/Disable ARP <i>ARP</i> is of type BoolYN . The default value is "Y".
DHCP	(VLAN-VBPORT) Enable/Disable DHCP <i>DHCP</i> is of type BoolYN . The default value is "Y".
OPT82ACT	<i>Not supported in release 6.0.</i> The action to take if a DHCP packet is received on a Client facing interface with Option82 sub-option 1 /2 content. <i>OPT82ACT</i> is of type Option82Action . The default value is "NONE".
IGMP	(VLAN-VBPORT) IGMP Type. <i>IGMP</i> is of type IgmpType . The default value is "SINK".
PPPOEAC	(VLAN-VBPORT) Enable/Disable PPPoE Access Concentrator. <i>PPPOEAC</i> is of type BoolYN . The default value is "N".
PPPOESUB	(VLAN-VBPORT) Enable/Disable PPPoE Subscriber <i>PPPOESUB</i> is of type BoolYN . The default value is "N".
LSVID	<i>Not supported in release 6.0.</i> <i>LSVID</i> is of type VlanTag . The default value is "NONE".
PRIOR	(VLAN-VBPORT) Priority of the VLAN VBPORT. <i>PRIOR</i> values are in the range 0-7. <i>PRIOR</i> is a Integer. The default value is "0".
TAGGING	(VLAN-VBPORT) Tagging Properties of the VLAN port <i>TAGGING</i> is of type Tagging . The default value is "DFLT".
ENCAP	(VBPORT) Encapsulation Type. <i>ENCAP</i> is of type EncapType . The default value is "ETHERNETV2".
DOS	(VBPORT) Denial of Service enabled. <i>DOS</i> is of type BoolYN . The default value is "Y".
STP	(VBPORT) Spanning Tree Protocol Enabled. <i>STP</i> is of type BoolYN . The default value is "N".
STPCOST	(VBPORT) Cost of the port participating in STP. This is used to determine the root port. <i>STPCOST</i> is a Integer. The default value is "100".
STPPRIO	(VBPORT) STP Priority. STP Priority values are in the range 0-240 and in steps of 16. <i>STPPRIO</i> is a Integer. The default value is "128".
DIRN	(VBPORT) Direction. <i>DIRN</i> is of type VbPortDirection . The default value is "BOTH".
STAGTYPE	<i>Not supported in release 6.0.</i> <i>STAGTYPE</i> is of type StagEthType . The default

value is "CTAG_8100".

LEARNING	<i>Not supported in release 6.0.</i> LEARNING is of type BoolYN . The default value is "N".
PORTTYPE	<i>Not supported in release 6.0.</i> This is a required parameter. PORTTYPE is of type VbPortType .
DESC	DESCription. A user-settable description field, up to 31 characters. DESC is a String. The default value is "::::".

Input Example

```
ENT-TMPLT-
VLANVBPORT:SYS:4:12345:::ARP=Y,DHCP=Y,OPT82ACT=NONE,IGMP=NONE,
PPPOEAC=N,PPPOESUB=N,LSVID=5,PRIO=1,TAGGING=DFLT,ENCAP=ETHERNETV2,DOS=Y,
STP=Y,STPCOST=2,STPPRIO=1,DIRN=BOTH,STAGTYPE=CTAG_8100,LEARNING=Y,
PORTTYPE=USER,DESC="TMPLT";
```

Errors

This message generates all of the [Default Errors](#).

ENT-USER-ACL

Name

ENT-USER-ACL: Enter User ACL

Description

Category: Security **Security:** Security User

Adds an entry to the User Address Control List.

An Address Control List consists of up to 20 source address/mask pairs per C7 network.

If the Access Control List is empty, no security will be enforced. This is the default behavior.

Related Messages:

[ACT-USER](#)

[CANC](#)

[CANC-PPPOESESS](#)

[CANC-USER](#)

[DLT-USER-SECU](#)

[ALW-USER-SECU](#)

[CANC-CID-SECU](#)

[CANC-SES-SECU](#)

[DLT-USER-ACL](#)

[ED-PID](#)

[ED-USER-SECU](#)
[INH-USER-SECU](#)
[RTRV-USER-SECU](#)

[ENT-USER-SECU](#)
[RTRV-USER-ACL](#)

Input Format

```
ENT-USER-ACL:[TID]:::[CTAG]:::IP=<IP>,IPMSK=<IPMSK>;
```

Input Parameters

IP IP Address. The IP address of the Tl1 or iMS client that is allowed to connect to the C7 network. *IP* is the AID [IpAid](#).

IPMSK IP Address Mask. The mask to apply to the IP address, allowing for a range of IP addresses to be considered. *IPMSK* is the AID [IpAid](#).

Input Example

```
ENT-USER-ACL:SYS1::4:::IP=172.22.90.101,IPMSK=255.255.255.0;
```

Errors

This message generates all of the [Default Errors](#).

ENT-USER-SECU

Name

ENT-USER-SECU: ENT USER SECU

Description

Category: Security **Security:** Security Administrator

This requests that a new user be added to the C7 network. The AID block contains the new user identifier.

User data is sent to all shelves in the system. Thus, when a user is added at one shelf, they may log in at any shelf in the system.

Defined in TR-835

Related Messages:

ACT-USER	ALW-MSG-SECU
ALW-USER-SECU	CANC
CANC-CID-SECU	CANC-PPPOESESS
CANC-SES-SECU	CANC-USER
DLT-TMPLT-SECU	DLT-USER-ACL
DLT-USER-SECU	ED-PID
ED-RADIUS	ED-SYS-SECU
ED-TMPLT-SECU	ED-USER-SECU
ENT-TMPLT-SECU	ENT-USER-ACL
INH-MSG-SECU	INH-USER-SECU
REPT ALM SECU	REPT EVT SECU
RTRV-ALM-SECU	RTRV-COND-SECU
RTRV-RADIUS	RTRV-STATUS
RTRV-SYS-SECU	RTRV-TMPLT-SECU
RTRV-USER-ACL	RTRV-USER-SECU

Input Format

```
ENT-USER-
SECU: [TID]:<UID>:[CTAG]::<PID>:[ [ TMPLT=<TMPLT>, ][ PAGE=<PAGE>, ]
[ PCND=<PCND>, ][ TMOUT=<TMOUT>, ][ UAPMA=<UAPMA>, ][ UAPMT=<UAPMT>, ]
[ UAPSE=<UAPSE>, ][ UAPSY=<UAPSY>, ][ UAPTS=<UAPTS>, ][ NODEAID=<NODEAID>, ]
[ ENTADA=<ENTADA> ] ;
```

Input Parameters

- UID** User Identifier. The user's identifier for session to be cancelled. It is a non-confidential identifier that uniquely determines a user. The user's identifier is any combination of alphanumeric characters 4 to 10 characters long and is case-sensitive. *UID* is the AID [UserAid](#).
- PID** Initial user's password. The password must conform to the rules provisioned via ED-SYS-SECU. *PID* is a String.
- TMPLT** Security Template. This specifies the security template to be used to provide default values for this command. The values in the template will be over-ridden by any parameter values specified in the command. *TMPLT* is the AID [SecuTmpltAid](#). The default value is "DEFLT".
- PAGE** Password Aging Interval. The password aging interval is expressed in days. An integer less than or equal to 999, typically 45 to 60. At the end of the interval the user is notified that the existing password needs to be changed each time they log in. A value of zero indicates the user's password will never expire. *PAGE* is of type [UserInterval](#).
- PCND** Password ChaNge Days. This parameter specifies the number of days the user has between the time they are first notified that they must change their password and the time their USERID is disabled. When a password is set by the ENT-USER-SECU command, users are notified that they must change their password. They have PCND days to do this. *PCND* is of type [UserInterval](#).
- TMOUT** TiMe OUT. This parameter specifies the number of minutes of inactivity that must pass before their session is automatically logged out. A value of zero indicates that the user's

sessions are never to be logged out due to inactivity. *TMOUT* is of type [TimeOut](#).

- UAPMA** User Access Privilege for Memory Administration. This parameter specifies the abilities of a user for executing memory administration commands. *UAPMA* is of type [AcsPrv](#).
- UAPMT** User Access Privilege for MainTenance. This parameter specifies the abilities of a user for executing maintenance commands. *UAPMT* is of type [AcsPrv](#).
- UAPSE** User Access Privilege for SEcurity. This parameter specifies the abilities of a user for executing security commands. *UAPSE* is of type [AcsPrv](#).
- UAPSY** User Access Privilege for SYstem. This parameter specifies the abilities of a user for executing system commands. *UAPSY* is of type [AcsPrv](#).
- UAPTS** User Access Privilege for TeSting. This parameter specifies the abilities of a user for executing testing commands. *UAPTS* is of type [AcsPrv](#).
- NODEAID** Node Access Identifier. This parameter indicates if the AID used in the commands or responses should include the node identifier. If the NODEAID = Y, then the AID values will contain the Node Id (example N6-4-3). If the NODEAID = N, then the AID values will not contain the Node Id (example 4-3). When the user connecting to the C7 is a NMA user, the NODEAID should be set to N (no). *NODEAID* is of type [BoolYN](#).
- ENTADA** This boolean flag determines whether or not the user may perform an ENTer on an object that is in ADA state. *ENTADA* is of type [BoolYN](#).

Input Example

```
ENT-USER-
SECU:SYS3:USER12:8294::GRFP33@@N:TMPLT=SRVORD,PAGE=45,PCND=1,TMOUT=5,
UAPMA=FULL,UAPMT=MIN,UAPSE=MIN,UAPSY=NONE,UAPTS=NONE,NODEAID=N,ENTADA=Y;
```

Errors

This message generates all of the [Default Errors](#).

ENT-VB

Name

ENT-VB: Enter Virtual Bridge

Description

Category: IP **Security:** Memory Admin - by rate

Enter Virtual Bridge.

Related Messages:

DLT-CVIDREG	DLT-IGMP-JOIN
DLT-MACHOST	DLT-VB
DLT-VBPORT	DLT-VLAN-VBPORT
DLT-VR	DLT-VRPORT
ED-CVIDREG	ED-IGMP
ED-MACHOST	ED-VB
ED-VBPORT	ED-VLAN-VBPORT
ED-VR	ENT-CVIDREG
ENT-IGMP-JOIN	ENT-MACHOST
ENT-VBPORT	ENT-VLAN-VBPORT
ENT-VR	ENT-VRPORT
REPT ALM VB	REPT ALM VR
REPT EVT VB	REPT EVT VR
RTRV-ALM-VB	RTRV-ALM-VR
RTRV-CVIDREG	RTRV-IGMP
RTRV-IGMP-JOIN	RTRV-MACHOST
RTRV-VB	RTRV-VBPORT
RTRV-VLAN-VBPORT	RTRV-VR
RTRV-VRPORT	

Input Format

```
ENT-VB:[ TID ]:<VbAid>:[ CTAG ]:::[ [ FWDMODE=<FWDMODE>, ] [ BW=<BW>, ]
[ VLANPORTTMPLT=<VLANPORTTMPLT>, ] [ AGETMR=<AGETMR>, ] [ PPPOAIWF=<PPPOAIWF>, ]
[ OPTION82=<OPTION82>, ] [ L2RLYMODE=<L2RLYMODE>, ] [ DESC=<DESC> ] ];
```

Input Parameters

VbAid	Virtual Bridge Access Identifier. <i>VbAid</i> is the AID VbAid .
FWDMODE	ForWarD MODE. Selects VB switching mode as either Layer 2 Switched Mode or Layer 3 RBE Routed Mode. <i>FWDMODE</i> is of type FwdMode .
BW	Bandwidth - Amount of guaranteed bandwidth allocated (in kbps), per slot, for slot-to-slot intra-bridge traffic <i>BW</i> is a Integer.
VLANPORTTMPLT	<i>VLANPORTTMPLT</i> is the AID VirtualBridgeId .
AGETMR	<i>Not supported in release 6.0.</i> <i>AGETMR</i> is a Integer. The default value is "300".
PPPOAIWF	<i>Not supported in release 6.0.</i> <i>PPPOAIWF</i> is of type BoolYN . The default value is "Y".
OPTION82	<i>Not supported in release 6.0.</i> The Option-82 type used by the L2 DHCP relay. <i>OPTION82</i> is of type Option82 . The default value is "NONE".
L2RLYMODE	<i>Not supported in release 6.0.</i> DHCP L2 Relay Mode. <i>L2RLYMODE</i> is of type DhcpL2RelayMode . The default value is "NONE".

DESC DESCription. A user-settable description field, up to 31 characters. *DESC* is a String. The default value is "****".

Input Example

```
ENT-VB:SYS1:N1-1-VB1:322:::FWDMODE=SWITCHED,BW=1000,VLANPORTTMPLT=1,
AGETMR=500,PPPOAIWF=Y,OPTION82=NONE,L2RLYMODE=NONE,DESC="DESCRIPTION";
```

Errors

This message generates all of the [Default Errors](#).

ENT-VBPORT

Name

ENT-VBPORT: Enter Virtual Bridge Port

Description

Category: IP **Security:** Memory Admin - by rate

Enter Virtual Bridge Port. Logical VBPORTs (AID of format VB-Index) are created automatically by the C7 when the VBPORT is specified as a cross-connect endpoint with ENT-CRS-VC.

Similarly, a logical VBPORT will be automatically deleted upon DLT-CRS-VC unless the VBPORT's "PINNED" parameter is provisioned as 'Y'.

Related Messages:

[DLT-CVIDREG](#)
[DLT-MACHOST](#)
[DLT-VBPORT](#)
[DLT-VR](#)
[ED-CVIDREG](#)
[ED-MACHOST](#)
[ED-VBPORT](#)
[ED-VR](#)
[ENT-IGMP-JOIN](#)
[ENT-VB](#)
[ENT-VR](#)
[REPT ALM VB](#)

[DLT-IGMP-JOIN](#)
[DLT-VB](#)
[DLT-VLAN-VBPORT](#)
[DLT-VRPORT](#)
[ED-IGMP](#)
[ED-VB](#)
[ED-VLAN-VBPORT](#)
[ENT-CVIDREG](#)
[ENT-MACHOST](#)
[ENT-VLAN-VBPORT](#)
[ENT-VRPORT](#)
[REPT ALM VR](#)

[REPT EVT VB](#)
[RTRV-ALM-VB](#)
[RTRV-CVIDREG](#)
[RTRV-IGMP-JOIN](#)
[RTRV-VB](#)
[RTRV-VLAN-VBPORT](#)
[RTRV-VRPORT](#)

[REPT EVT VR](#)
[RTRV-ALM-VR](#)
[RTRV-IGMP](#)
[RTRV-MACHOST](#)
[RTRV-VBPORT](#)
[RTRV-VR](#)

Input Format

```
ENT-
VBPORT:[TID]:<VbPortAid>:[CTAG]:::[[ENCAP=<ENCAP>],[DOS=<DOS>,
[STP=<STP>,[STPCOST=<STPCOST>,[STPPRIO=<STPPRIO>,[PVID=<PVID>,
[DIRN=<DIRN>,[STAGTYPE=<STAGTYPE>,[PORTTYPE=<PORTTYPE>,
[LEARNING=<LEARNING>,[PINNED=<PINNED>]];]
```

Input Parameters

- VbPortAid** Virtual Bridge Port Aid - This identifies either physical port or VC endpoint associated with the Virtual Bridge. *VbPortAid* is the AID [VirtualBridgePortId2](#).
- ENCAP** Encapsulation Type. *ENCAP* is of type [EncapType](#).
- DOS** Denial of Service enabled. *DOS* is of type [BoolYN](#).
- STP** Spanning Tree Protocol Enabled. *STP* is of type [BoolYN](#).
- STPCOST** Cost of the port participating in STP. This is used to determine the root port. *STPCOST* is a Integer.
- STPPRIO** STP Priority. STP Priority values are in the range 0-240 and in steps of 16. *STPPRIO* is a Integer. The default value is "128".
- PVID** Port Vlan ID. *Not supported in release 5.1* *PVID* is of type [VlanTag](#).
- DIRN** The direction of forwarded traffic. *DIRN* is of type [VbPortDirection](#).
- STAGTYPE** *Not supported in release 6.0*. *STAGTYPE* is of type [StagEthType](#). The default value is "CTAG_8100".
- PORTTYPE** *Not supported in release 6.0*. This is a required parameter. *PORTTYPE* is of type [VbPortType](#).
- LEARNING** *Not supported in release 6.0*. *LEARNING* is of type [BoolYN](#). The default value is "N".
- PINNED** For logical VBPORTs (used in ENT-CRS-VC), this parameter governs whether the VBPORT endpoint will be automatically deleted upon DLT-CRS-VC. *PINNED* is of type [BoolYN](#). The default value is "N".

Input Example

```
ENT-VBPORT:SYS:N1-1-VB2-4-
1:1234:::ENCAP=ETHERNETV2,DOS=Y,STP=Y,STPCOST=2,
STPPRIO=1,PVID=3,DIRN=BOTH,STAGTYPE=CTAG_9100,PORTTYPE=USER,LEARNING=Y,
PINNED=N;
```

Errors

This message generates all of the [Default Errors](#).

ENT-VCG

Name

ENT-VCG: Enter Voice Concentration Group

Description

Category: TDM Services **Security:** Memory Admin - by rate

This command is used to define a Voice Concentration Group, used to convert AAL2 based service to TDM.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VRP
INIT-ONT-UA	INIT-REG-ONT
REPT ALM AVO	REPT ALM ONT
REPT ALM RFVID	REPT ALM VCG
REPT ALM VRP	REPT EVT ONT
REPT RMV AVO	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT

RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
ENT-VCG: [TID]:<IgAid>:[CTAG]:::BWC=<BWC>, [CAPALMTHR=<CAPALMTHR>];
```

Input Parameters

IgAid	The address of the Voice Concentration Group. Note that the VCG is created from the same pool of 15 AIDs as other interface groups (e.g. GR-303). <i>IgAid</i> is the AID IgAid .
BWC	Bandwidth Constraint used to manage AAL2 services in the network. Note that it is not possible to assign a BWC to a VCG if previous ENT-BWCLINK commands have been performed with that BWC. <i>BWC</i> is the AID BwcAid .
CAPALMTHR	Capacity Alarm Threshold. The percentage of active call capacity of the VCG at which a capacity alarm should be raised. <i>CAPALMTHR</i> is of type Percentage .

Input Example

```
ENT-VCG: SYS:N1-2-IG3:456:::BWC=4,CAPALMTHR=85;
```

Errors

This message generates all of the [Default Errors](#).

ENT-VCGLINK

Name

ENT-VCGLINK: Enter VCGLINK

Description

Category: TDM Services**Security:** Memory Admin - by rate

Assign a Voice Concentration Group (VCG) to a link resulting in link bandwidth being reserved for the AAL2 voice call. A bandwidth constraint must be defined in the system and assigned to the VCG before this command is possible. The VDS1 capacity must be assigned to the VCG before this operation is performed so the link bandwidth to be reserved can be determined.

Input Format

```
ENT-VCGLINK:[TID]:<IgAid>:[CTAG]::<LINK>;
```

Input Parameters

IgAid The address of the Voice Concentration Group. *IgAid* is the AID [IgAid](#).

LINK *LINK* is the AID [VcglinkId2](#).

Input Example

```
ENT-VCGLINK:SYS:N1-2-IG3:789::N2-1-5-1-1;;
```

Errors

This message generates all of the [Default Errors](#).

ENT-VID-CHAN

Name

ENT-VID-CHAN: Enter Video Channel

Description**Category:** Video**Security:** Memory Admin - by rate

Enter a Video Channel.

Related Messages:

[DLT-DHCP-OUI](#)

[DLT-IP-ROUTE](#)

[DLT-SUBIF-BINDING](#)

[DLT-IP-IF](#)

[DLT-IPIF-PORT](#)

[DLT-VID-CHAN](#)

DLT-VID-IRCLOC	DLT-VID-SUB
DLT-VID-SVC	DLT-VODCLNT
DLT-VODDSTLU	DLT-VODFLOW
DLT-VODSRCLU	DLT-VODSVR
ED-ARP	ED-IPIF-PORT
ED-VID-CHAN	ED-VID-SUB
ED-VID-SVC	ED-VODDSTLU
ENT-DHCP-OUI	ENT-IP-IF
ENT-IP-ROUTE	ENT-IPIF-PORT
ENT-SUBIF-BINDING	ENT-VID-IRCLOC
ENT-VID-SUB	ENT-VID-SVC
ENT-VODDSTLU	REPT EVT VODFLOW
RTRV-ARP	RTRV-DHCP-LEASE
RTRV-DHCP-OUI	RTRV-IP-IF
RTRV-IP-ROUTE	RTRV-IPIF-PORT
RTRV-SUBIF-BINDING	RTRV-VID-CHAN
RTRV-VID-IRCLOC	RTRV-VID-SUB
RTRV-VID-SVC	RTRV-VODCLNT
RTRV-VODDSTLU	RTRV-VODFLOW
RTRV-VODSRCLU	RTRV-VODSVR

Input Format

```
ENT-VID-
CHAN: [ TID ] :<IP> : [ CTAG ] :: : VP=<VP> , VC=<VC> , TRFPROF=<TRFPROF> ,
[ DESC=<DESC> ] ;
```

Input Parameters

- IP** *IP* is the AID [IpAid](#).
- VP** The VP number associated with the video transport VCs to deliver this channel to the different shelves. *VP* is of type [VPRange](#).
- VC** The VC number associated with the video transport VCs to deliver this channel to the different shelves. *VC* is of type [VCRange](#).
- TRFPROF** Traffic Profile. This parameter identifies which Traffic Profile which will be used by the channel. The Traffic Profile specifies the bandwidth parameters. The Traffic Profile must have its APP set to an Application Id of either VIDCHNL or DATACAROUSEL to be used as a channel. *TRFPROF* is the AID [AtmTrfProfProvAid](#).
- DESC** Channel description. The description can be up to 40 characters in length. *DESC* is a String.

Input Example

```
ENT-VID-
CHAN::192.168.1.0:32:::VP=2000 , VC=30000 , TRFPROF=20 , DESC="CHANNEL" ;
```

Errors

This message generates all of the [Default Errors](#).

ENT-VID-IRCLOC

Name

ENT-VID-IRCLOC: Enter VID IRCLOC

Description

Category: Video **Security:** Memory Admin - by rate

This command is used to add IRCs to the video service. It is possible to either insert a card first and then add it to the video service or vice-versa. But it is not possible to activate video related function on an IRC before this command has been performed.

Related Messages:

DLT-DHCP-OUI	DLT-IP-IF
DLT-IP-ROUTE	DLT-IPIF-PORT
DLT-SUBIF-BINDING	DLT-VID-CHAN
DLT-VID-IRCLOC	DLT-VID-SUB
DLT-VID-SVC	DLT-VODCLNT
DLT-VODDSTLU	DLT-VODFLOW
DLT-VODSRCLU	DLT-VODSVR
ED-ARP	ED-IPIF-PORT
ED-VID-CHAN	ED-VID-SUB
ED-VID-SVC	ED-VODDSTLU
ENT-DHCP-OUI	ENT-IP-IF
ENT-IP-ROUTE	ENT-IPIF-PORT
ENT-SUBIF-BINDING	ENT-VID-CHAN
ENT-VID-SUB	ENT-VID-SVC
ENT-VODDSTLU	REPT EVT VODFLOW
RTRV-ARP	RTRV-DHCP-LEASE
RTRV-DHCP-OUI	RTRV-IP-IF
RTRV-IP-ROUTE	RTRV-IPIF-PORT
RTRV-SUBIF-BINDING	RTRV-VID-CHAN
RTRV-VID-IRCLOC	RTRV-VID-SUB
RTRV-VID-SVC	RTRV-VODCLNT
RTRV-VODDSTLU	RTRV-VODFLOW

[RTRV-VODSRCLU](#)[RTRV-VODSVR](#)**Input Format**

```
ENT-VID-IRCLOC:[TID]:<VidServAid>:[CTAG]:::IRCAID=<IrcAid>;
```

Input Parameters

VidServAid Video Service Access Identifier. The AID of the Video Service that contains the IRC.
VidServAid is the AID [VidServAid](#).

IrcAid Slot address of the IRC. *IrcAid* is the AID [SlotLuAid](#).

Input Example

```
ENT-VID-IRCLOC:SYS2:1:34:::IRCAID=N1-1-20;
```

Errors

This message generates all of the [Default Errors](#).

ENT-VID-SUB**Name**

ENT-VID-SUB: Enter Video SUB

Description

Category: Video **Security:** Memory Admin - by rate

This command creates the video subscriber record and creates an internal BWCLINK. This command can be send to the IRC (for now) and eventually the GE2P.

Related Messages:
[DLT-DHCP-QUI](#)
[DLT-IP-IF](#)
[DLT-IP-ROUTE](#)
[DLT-IPIF-PORT](#)
[DLT-SUBIF-BINDING](#)
[DLT-VID-CHAN](#)
[DLT-VID-IRCLOC](#)
[DLT-VID-SUB](#)
[DLT-VID-SVC](#)
[DLT-VODCLNT](#)
[DLT-VODDSTLU](#)
[DLT-VODFLOW](#)

DLT-VODSRCLU	DLT-VODSVR
ED-ARP	ED-IPIF-PORT
ED-VID-CHAN	ED-VID-SUB
ED-VID-SVC	ED-VODDSTLU
ENT-DHCP-OUI	ENT-IP-IF
ENT-IP-ROUTE	ENT-IPIF-PORT
ENT-SUBIF-BINDING	ENT-VID-CHAN
ENT-VID-IRCLOC	ENT-VID-SVC
ENT-VODDSTLU	REPT EVT VODFLOW
RTRV-ARP	RTRV-DHCP-LEASE
RTRV-DHCP-OUI	RTRV-IP-IF
RTRV-IP-ROUTE	RTRV-IPIF-PORT
RTRV-SUBIF-BINDING	RTRV-VID-CHAN
RTRV-VID-IRCLOC	RTRV-VID-SUB
RTRV-VID-SVC	RTRV-VODCLNT
RTRV-VODDSTLU	RTRV-VODFLOW
RTRV-VODSRCLU	RTRV-VODSVR

Input Format

```
ENT-VID-
SUB:[TID]:<VidSubAid>:[CTAG]:::RTRAID=<RTRAID>, [CHANCNT=<CHANCNT>],
VIDBW=<VIDBW>, VIDLOANBW=<VIDLOANBW>;
```

Input Parameters

VidSubAid	Video Subscriber Access Identifier - The port or channel to which subscribers are connected. Usually an ADSL Channel or ONT (or vDSL in the future) port. <i>VidSubAid</i> is the AID VidSubAid .
RTRAID	RTRAID - Location of IRC to handle the command <i>RTRAID</i> is the AID SlotLuAid .
CHANCNT	Maximum Channel Count - Number of unique channels flowing to the port. Zero CHANCNT means that the VIDBW and VIDLOANBW values are still used but the subscriber's port will use the global IGMP channel limit when validating channel changes. Setting the CHANCNT to zero is, in effect, turning off the count for that specific port. <i>CHANCNT</i> is a Integer.
VIDBW	Video Bandwidth - In Kilobits per second. This value is the maximum Downstream (TX) BW reserved for video on the port. This can be any value but will be rejected if it exceeds the port's trained rate or provisioned rate. <i>VIDBW</i> is a Integer.
VIDLOANBW	Maximum Video Loan Bandwidth - in kbps. Maximum amount of bandwidth to lend back to UBR applications. This value cannot exceed the Max Video BW value. <i>VIDLOANBW</i> is a Integer.

Input Example

```
ENT-VID-SUB:SYS:N1-1-1-1:1234:::RTRAID=N1-1-
10,CHANCNT=5,VIDBW=10000,
VIDLOANBW=2000;
```

Errors

This message generates all of the [Default Errors](#).

ENT-VID-SVC

Name

ENT-VID-SVC: Enter Video Service

Description

Category: Video **Security:** Memory Admin - by rate

This command sets up the video service.

This will be done only once to signal that video will be used in this C7 network.

Related Messages:

[DLT-DHCP-OUI](#)

[DLT-IP-ROUTE](#)

[DLT-SUBIF-BINDING](#)

[DLT-VID-IRCLOC](#)

[DLT-VID-SVC](#)

[DLT-VODDSTLU](#)

[DLT-VODSRCLU](#)

[ED-ARP](#)

[ED-VID-CHAN](#)

[ED-VID-SVC](#)

[ENT-DHCP-OUI](#)

[ENT-IP-ROUTE](#)

[ENT-SUBIF-BINDING](#)

[ENT-VID-IRCLOC](#)

[ENT-VODDSTLU](#)

[RTRV-ARP](#)

[RTRV-DHCP-OUI](#)

[RTRV-IP-ROUTE](#)

[RTRV-SUBIF-BINDING](#)

[RTRV-VID-IRCLOC](#)

[DLT-IP-IF](#)

[DLT-IPIF-PORT](#)

[DLT-VID-CHAN](#)

[DLT-VID-SUB](#)

[DLT-VODCLNT](#)

[DLT-VODFLOW](#)

[DLT-VODSVR](#)

[ED-IPIF-PORT](#)

[ED-VID-SUB](#)

[ED-VODDSTLU](#)

[ENT-IP-IF](#)

[ENT-IPIF-PORT](#)

[ENT-VID-CHAN](#)

[ENT-VID-SUB](#)

[REPT EVT VODFLOW](#)

[RTRV-DHCP-LEASE](#)

[RTRV-IP-IF](#)

[RTRV-IPIF-PORT](#)

[RTRV-VID-CHAN](#)

[RTRV-VID-SUB](#)

[RTRV-VID-SVC](#)
[RTRV-VODDSTLU](#)
[RTRV-VODSRCLU](#)

[RTRV-VODCLNT](#)
[RTRV-VODFLOW](#)
[RTRV-VODSVR](#)

Input Format

```
ENT-VID-
SVC:[ TID ]:<VidSvcAid>:[ CTAG ]:::[ [ VIDVLANTAG=<VIDVLANTAG> , ]
[ DHCPLOCK=<DHCPLOCK> ] ] ;
```

Input Parameters

- VidSvcAid** Video Service Access Identifier. *VidSvcAid* is the AID [VidSvcAid](#).
- VIDVLANTAG** *VIDVLANTAG* is of type [VlanTag](#). The default value is "NONE".
- DHCPLOCK** Enable or disable device mobility. When set to "Y", restrict mobility by allowing a DHCP host to obtain an IP address only once for a specific VLAN port. *DHCPLOCK* is of type [BoolYN](#). The default value is "Y".

Input Example

```
ENT-VID-SVC:SYS2:1:34:::VIDVLANTAG=2,DHCPLOCK=Y;
```

Errors

This message generates all of the [Default Errors](#).

ENT-VLAN

Name

ENT-VLAN: Enter VLAN

Description

Category: IP **Security:** Memory Admin - by rate

This command provisions a new Virtual LAN on an XLAN or Virtual Bridge.

Related Messages:

[DLT-AGG](#)
[DLT-AGG-PORT](#)

[DLT-AGG-ACL](#)
[DLT-ETH](#)

DLT-ETH-ACL	DLT-GOS-ETH
DLT-LSWITCH	DLT-LSWITCH-PORT
DLT-PROF-ETH	DLT-VLAN
DLT-VLAN-PORT	DLT-VLAN-VBPORT
ED-ETH	ED-GOS-ETH
ED-VLAN	ED-VLAN-PORT
ED-VLAN-VBPORT	ENT-AGG
ENT-AGG-ACL	ENT-AGG-PORT
ENT-ETH	ENT-ETH-ACL
ENT-GOS-ETH	ENT-LSWITCH
ENT-LSWITCH-PORT	ENT-PROF-ETH
ENT-VLAN-PORT	ENT-VLAN-VBPORT
INIT-LSWITCH	INIT-STAT-ETH
REPT ALM ETH	REPT EVT ETH
REPT RMV ETH	REPT RST ETH
RMV-ETH	RST-ETH
RTRV-AGG	RTRV-AGG-ACL
RTRV-AGG-PORT	RTRV-ALM-ETH
RTRV-COND-ETH	RTRV-ETH
RTRV-ETH-ACL	RTRV-GOS-ETH
RTRV-LSWITCH	RTRV-LSWITCH-PORT
RTRV-PM-ETH	RTRV-PROF-ETH
RTRV-STAT-ETH	RTRV-VLAN
RTRV-VLAN-PORT	RTRV-VLAN-VBPORT

Input Format

```
ENT-
VLAN: [TID]:<VlanAid>:[CTAG]:::[ [APPMODE=<APPMODE>, ][OPTION82=<OPTION82>, ]
[ L2RLYMODE=<L2RLYMODE>, ][DESC=<DESC>] ];
```

Input Parameters

VlanAid	<i>VlanAid</i> is the AID VlanId .
APPMODE	<i>Not supported in release 6.0.</i> APPlication MODE. This is the forwarding mode of the VLAN. MAC DA lookup is performed within the VLAN context for Learning Bridge modes N:1 and TLS. <i>APPMODE</i> is of type AppMode .
OPTION82	<i>Not supported in release 6.0.</i> The Option-82 type used by the L2 DHCP relay. <i>OPTION82</i> is of type Option82 . The default value is "NONE".
L2RLYMODE	<i>Not supported in release 6.0.</i> DHCP L2 Relay Mode. <i>L2RLYMODE</i> is of type DhcpL2RelayMode . The default value is "NONE".
DESC	User Description, up to 31 characters. <i>DESC</i> is a String. The default value is """".

Input Example

```
ENT-VLAN::N3-1-VB2-
VLAN4:543:::APPMODE=VLAN_PER_PORT,OPTION82=NONE,
L2RLYMODE=NONE,DESC="DESCRIPTION";
```

Errors

This message generates all of the [Default Errors](#).

ENT-VLAN-PORT

Name

ENT-VLAN-PORT: Enter VLAN PORT

Description

Category: IP **Security:** Memory Admin - by rate

This command adds a port to a Virtual LAN.

Related Messages:

DLT-AGG	DLT-AGG-ACL
DLT-AGG-PORT	DLT-ETH
DLT-ETH-ACL	DLT-GOS-ETH
DLT-LSWITCH	DLT-LSWITCH-PORT
DLT-PROF-ETH	DLT-VLAN
DLT-VLAN-PORT	DLT-VLAN-VBPORT
ED-ETH	ED-GOS-ETH
ED-VLAN	ED-VLAN-PORT
ED-VLAN-VBPORT	ENT-AGG
ENT-AGG-ACL	ENT-AGG-PORT
ENT-ETH	ENT-ETH-ACL
ENT-GOS-ETH	ENT-LSWITCH
ENT-LSWITCH-PORT	ENT-PROF-ETH
ENT-VLAN	ENT-VLAN-VBPORT
INIT-LSWITCH	INIT-STAT-ETH
REPT ALM ETH	REPT EVT ETH
REPT RMV ETH	REPT RST ETH
RMV-ETH	RST-ETH
RTRV-AGG	RTRV-AGG-ACL
RTRV-AGG-PORT	RTRV-ALM-ETH

[RTRV-COND-ETH](#)
[RTRV-ETH-ACL](#)
[RTRV-LSWITCH](#)
[RTRV-PM-ETH](#)
[RTRV-STAT-ETH](#)
[RTRV-VLAN-PORT](#)

[RTRV-ETH](#)
[RTRV-GOS-ETH](#)
[RTRV-LSWITCH-PORT](#)
[RTRV-PROF-ETH](#)
[RTRV-VLAN](#)
[RTRV-VLAN-VBPORT](#)

Input Format

```
ENT-VLAN-PORT: [ TID ] :<VLanPortAid>:[ CTAG ] ::::TRFPREF=<TRFPREF> ;
```

Input Parameters

VLanPortAid Virtual LAN Port Access IDentifier. *VLanPortAid* is the AID [VLanPortAid](#).

TRFPREF ethernet TRaFfic PROFile *TRFPREF* is the AID [EthProfAid](#).

Input Example

```
ENT-VLAN-PORT::N1-1-1-1-XLAN10-VLAN50:543:::TRFPREF=9 ;
```

Errors

This message generates all of the [Default Errors](#).

ENT-VLAN-VBPORT

Name

ENT-VLAN-VBPORT: Enter VLAN Virtual Bridge Port

Description

Category: IP **Security:** Memory Admin - by rate

Enter VLAN Port participating in a packet services VLAN.

Related Messages:

[DLT-AGG](#)
[DLT-AGG-PORT](#)
[DLT-ETH](#)

[DLT-AGG-ACL](#)
[DLT-CVIDREG](#)
[DLT-ETH-ACL](#)

DLT-GOS-ETH	DLT-IGMP-JOIN
DLT-LSWITCH	DLT-LSWITCH-PORT
DLT-MACHOST	DLT-PROF-ETH
DLT-VB	DLT-VBPORT
DLT-VLAN	DLT-VLAN-PORT
DLT-VLAN-VBPORT	DLT-VR
DLT-VRPORT	ED-CVIDREG
ED-ETH	ED-GOS-ETH
ED-IGMP	ED-MACHOST
ED-VB	ED-VBPORT
ED-VLAN	ED-VLAN-PORT
ED-VLAN-VBPORT	ED-VR
ENT-AGG	ENT-AGG-ACL
ENT-AGG-PORT	ENT-CVIDREG
ENT-ETH	ENT-ETH-ACL
ENT-GOS-ETH	ENT-IGMP-JOIN
ENT-LSWITCH	ENT-LSWITCH-PORT
ENT-MACHOST	ENT-PROF-ETH
ENT-VB	ENT-VBPORT
ENT-VLAN	ENT-VLAN-PORT
ENT-VR	ENT-VRPORT
INIT-LSWITCH	INIT-STAT-ETH
REPT ALM ETH	REPT ALM VB
REPT ALM VR	REPT EVT ETH
REPT EVT VB	REPT EVT VR
REPT RMV ETH	REPT RST ETH
RMV-ETH	RST-ETH
RTRV-AGG	RTRV-AGG-ACL
RTRV-AGG-PORT	RTRV-ALM-ETH
RTRV-ALM-VB	RTRV-ALM-VR
RTRV-COND-ETH	RTRV-CVIDREG
RTRV-ETH	RTRV-ETH-ACL
RTRV-GOS-ETH	RTRV-IGMP
RTRV-IGMP-JOIN	RTRV-LSWITCH
RTRV-LSWITCH-PORT	RTRV-MACHOST
RTRV-PM-ETH	RTRV-PROF-ETH
RTRV-STAT-ETH	RTRV-VB
RTRV-VBPORT	RTRV-VLAN
RTRV-VLAN-PORT	RTRV-VLAN-VBPORT
RTRV-VR	RTRV-VRPORT

Input Format

ENT-VLAN-VBPORT: [TID] :<VbPortAid>:[CTAG] :::: VLAN=<VLAN>, [[ARP=<ARP>,]]

```
[DHCP=<DHCP>, ][OPT82ACT=<OPT82ACT>, ][IGMP=<IGMP>, ][PPPOEAC=<PPPOEAC>, ]
[PPPOESUB=<PPPOESUB>, ][LSVID=<LSVID>, ][PRIO=<PRIO>, ][TAGGING=<TAGGING>]];
```

Input Parameters

- VbPortAid** *VbPortAid* is the AID [VbPortAid](#).
- VLAN** VLAN Access Identifier - The number of the VLAN this port is being added to. *VLAN* is the AID [PacketVlanAid](#).
- ARP** Enable/Disable ARP. This parameter will default to "Y" for physical ports (i.e. when VbPortAid=N{1-255}-{1-5}-VB{1-20}-{1-20}-{1-6}) and will default to "N" for cross-connect endpoints (i.e. when VbPortAid=N{1-255}-{1-5}-VB{1-20}-{1-7960}). *ARP* is of type [BoolYN](#).
- DHCP** Enable/Disable DHCP *DHCP* is of type [BoolYN](#). The default value is "Y".
- OPT82ACT** *Not supported in release 6.0.* The action to take if a DHCP packet is received on a Client facing interface with Option82 sub-option 1 /2 content. *OPT82ACT* is of type [Option82Action](#). The default value is "NONE".
- IGMP** IGMP TYPE: NONE SINK *IGMP* is of type [IgmpType](#).
- PPPOEAC** Enable/Disable PPPoE Access Concentrator. *PPPOEAC* is of type [BoolYN](#). The default value is "N".
- PPPOESUB** Enable/Disable PPPoE Subscriber. *PPPOESUB* is of type [BoolYN](#). The default value is "N".
- LSVID** *Not supported in release 6.0.* *LSVID* is of type [VlanTag](#). The default value is "NONE".
- PRI0** VLAN Port Priority. *PRI0* values are in the range 0-7. *PRI0* is a Integer. The default value is "0".
- TAGGING** Tagging Properties of the VLAN port *TAGGING* is of type [Tagging](#). The default value is "DFLT".

Input Example

```
ENT-VLAN-VBPORT::N1-1-VB1-4-1:543:::VLAN=N1-1-VB1-VLAN1,ARP=Y,DHCP=Y,
OPT82ACT=None,IGMP=None,PPPOEAC=N,PPPOESUB=N,LSVID=5,PRI0=2,TAGGING=DFLT;
```

Errors

This message generates all of the [Default Errors](#).

ENT-VODDSTLU

Name

ENT-VODDSTLU: Enter VOD Destination Line Unit

Description

Category: Video **Security:** Memory Admin - by rate

A VOD Destination LU is the slot on which VOD flows targeting subscribers on this shelf have their flows terminate. If multiple VOD Destination LUs are present in a shelf, the IRC will use the first LU with an available VOD Internal Flow VC with enough bandwidth. If the VOD Destination LU is deleted, all flows that terminate on it will be torn down. The TRFPROF and FLOWLMT parameters act to create hidden "VOD Internal Flow VCs". If there is insufficient bandwidth to support the requested number of flows, then the operation will fail and no change will occur to the system.

Defined by Calix.

Related Messages:

DLT-DHCP-OUI	DLT-IP-IF
DLT-IP-ROUTE	DLT-IPIF-PORT
DLT-SUBIF-BINDING	DLT-VID-CHAN
DLT-VID-IRCLOC	DLT-VID-SUB
DLT-VID-SVC	DLT-VODCLNT
DLT-VODDSTLU	DLT-VODFLOW
DLT-VODSRCLU	DLT-VODSVR
ED-ARP	ED-IPIF-PORT
ED-VID-CHAN	ED-VID-SUB
ED-VID-SVC	ED-VODDSTLU
ENT-DHCP-OUI	ENT-IP-IF
ENT-IP-ROUTE	ENT-IPIF-PORT
ENT-SUBIF-BINDING	ENT-VID-CHAN
ENT-VID-IRCLOC	ENT-VID-SUB
ENT-VID-SVC	REPT EVT VODFLOW
RTRV-ARP	RTRV-DHCP-LEASE
RTRV-DHCP-OUI	RTRV-IP-IF
RTRV-IP-ROUTE	RTRV-IPIF-PORT
RTRV-SUBIF-BINDING	RTRV-VID-CHAN
RTRV-VID-IRCLOC	RTRV-VID-SUB
RTRV-VID-SVC	RTRV-VODCLNT
RTRV-VODDSTLU	RTRV-VODFLOW
RTRV-VODSRCLU	RTRV-VODSVR

Input Format

```
ENT-
VODDSTLU:[TID]:<EqptAid>:[CTAG]:::IRCAID=<IRCAID>,FLOWLMT=<FLOWLMT>,
TRFPROF=<TRFPROF>;
```

Input Parameters

- EqptAid** VOD Destination LU Access Identifier. The address of the VOD Destination Line Unit. *EqptAid* is the AID [EquipmentId3](#).
- IRCAID** IRC AID. The address of the IRC. *IRCAID* is the AID [SlotLuAid](#).
- FLOWLMT** Flow Limit. The upper bound on the number of VOD flows that can egress through this OLU. For each possible flow, a hidden "VOD Internal Flow VC" is created with source and destination on PP1 of this card. There must be sufficient bandwidth in the shelf to support the specified number of flows. *FLOWLMT* is a Integer.
- TRFPROF** Traffic Profile. The traffic profile used to create hidden "VOD Internal Flow VCs". The Application Id of the specified traffic profile must be VIDSUBCHNL. *TRFPROF* is the AID [AtmTrfProfProvAid](#).

Input Example

```
ENT-VODDSTLU:SYS1:N1-2-3:123:::IRCAID=N1-2-
3, FLOWLMT=20 , TRFPROF=3;
```

Errors

This message generates all of the [Default Errors](#).

ENT-VR

Name

ENT-VR: Enter Virtual Router

Description

Category: IP **Security:** Memory Admin - by rate

Enter a Virtual Router.

Related Messages:

[DLT-CVIDREG](#)
[DLT-MACHOST](#)
[DLT-VBPORT](#)
[DLT-VR](#)
[ED-CVIDREG](#)

[DLT-IGMP-JOIN](#)
[DLT-VB](#)
[DLT-VLAN-VBPORT](#)
[DLT-VRPORT](#)
[ED-IGMP](#)

ED-MACHOST	ED-VB
ED-VBPORT	ED-VLAN-VBPORT
ED-VR	ENT-CVIDREG
ENT-IGMP-JOIN	ENT-MACHOST
ENT-VB	ENT-VBPORT
ENT-VLAN-VBPORT	ENT-VRPORT
REPT ALM VB	REPT ALM VR
REPT EVT VB	REPT EVT VR
RTRV-ALM-VB	RTRV-ALM-VR
RTRV-CVIDREG	RTRV-IGMP
RTRV-IGMP-JOIN	RTRV-MACHOST
RTRV-VB	RTRV-VBPORT
RTRV-VLAN-VBPORT	RTRV-VR
RTRV-VRPORT	

Input Format

```
ENT-VR:[TID]:<VrAid>:[CTAG]:::[DHCPLOCK=<DHCPLOCK>];
```

Input Parameters

VrAid Virtual Router Aid *VrAid* is the AID [VrAid](#).

DHCPLOCK Enable or disable device mobility. When set to "Y", restrict mobility by allowing a DHCP host to obtain an IP address only once for a specific VR. *DHCPLOCK* is of type [BoolYN](#). The default value is "Y".

Input Example

```
ENT-VR:SYS1:N1-1-VR1:322:::DHCPLOCK=Y;
```

Errors

This message generates all of the [Default Errors](#).

ENT-VRP

Name

ENT-VRP: Enter Video Return Path

Description

Category: PON **Security:** Memory Admin - by rate

Enter Video Return Path. The Video Return Path is used to return command information from Set Top Boxes connected to the subscriber coax. Not all RF-Video capable ONTs support the optional Video Return Path capability.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
INIT-ONT-UA	INIT-REG-ONT
REPT ALM AVO	REPT ALM ONT
REPT ALM RFVID	REPT ALM VCG
REPT ALM VRP	REPT EVT ONT
REPT RMV AVO	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

ENT-

```
VRP : [ TID ] : <VrpAid> : [ CTAG ] : :: MODE=<MODE>, [ [ RATE=<RATE>, ] [ FREQ=<FREQ>, ] [ DQPSK=<DQPSK>, ] [ RAND=<RAND>, ] [ DESC=<DESC> ] ] : [ <PST> ], [ <SST> ] ;
```

Input Parameters

- VrpAid** Video Return Path Access Identifier. *VrpAid* is the AID [VrpAid](#).
- MODE** RF Return Path Mode - Control the Mode of the RF-Return being utilized by the ONT. *MODE* is of type [RFReturnMode](#).
- RATE** SCTE 55-2 Data Rate - When MODE equals SCTE 55-2, this parameter controls the upstream rate for the RF-Return signal in kbit/sec. *RATE* is of type [VrpDataRate](#).
- FREQ** When MODE = SCTE55-1, frequency is 8096 to 40160 in step sizes of 192 kHz. When MODE = SCTE55-2 and RATE =256 kbps, frequency is 8000 to 26500 in steps of 256 kHz. When MODE = SCTE55-2 and RATE =1544 kbps, frequency is 8000 to 26500 in steps of 1000 kHz. When MODE = SCTE55-2 and RATE =3088 kbps, frequency is 8000 to 26500 in steps of 2000 kHz *FREQ* is a Integer.
- DQPSK** SCTE55-1 DQSK Mode - When MODE equals CTE55-1, set the DQPSK mode to Default or Alternate Operation. Default value is DFLT. *DQPSK* is of type [DQPSKMode](#).
- RAND** SCTE55-1 Randomizer Pre-Load - When MODE equals SCTE55-1, set the eight bits of the Randomizer pre-Load. Value range is from 00 to FF in hex. Default value is FF. *RAND* is a String. *RAND* is a String.
- DESC** DESCription. A user-settable description field, up to 31 characters. *DESC* is a String. The default value is " ".
- PST** Primary Service State of the VRP - Default value is IS. *PST* is of type [PrimaryStateChg](#).
- SST** Secondary Service State of the VRP. SB is the only allowed provisioned secondary state and only allowed when PST is set to OOS. *SST* is of type [SecondaryStateChgSB](#).

Input Example

```
ENT-VRP:SYS:N2-3-12-1-22-VRP:1234:::MODE=SCTE55-  
2,RATE=1544,FREQ=8000,  
DQPSK=DFLT,RAND=0XFF,DESC="DESCRIPTION":OOS,SB;
```

Errors

This message generates all of the [Default Errors](#).

ENT-VRPORT

Name

ENT-VRPORT: Enter Virtual Router Port

Description

Category: IP **Security:** Memory Admin - by rate

Enter Virtual Router Port.

Related Messages:

DLT-CVIDREG	DLT-IGMP-JOIN
DLT-MACHOST	DLT-VB
DLT-VBPORT	DLT-VLAN-VBPORT
DLT-VR	DLT-VRPORT
ED-CVIDREG	ED-IGMP
ED-MACHOST	ED-VB
ED-VBPORT	ED-VLAN-VBPORT
ED-VR	ENT-CVIDREG
ENT-IGMP-JOIN	ENT-MACHOST
ENT-VB	ENT-VBPORT
ENT-VLAN-VBPORT	ENT-VR
REPT ALM VB	REPT ALM VR
REPT EVT VB	REPT EVT VR
RTRV-ALM-VB	RTRV-ALM-VR
RTRV-CVIDREG	RTRV-IGMP
RTRV-IGMP-JOIN	RTRV-MACHOST
RTRV-VB	RTRV-VBPORT
RTRV-VLAN-VBPORT	RTRV-VR
RTRV-VRPORT	

Input Format

```
ENT-VRPORT:[ TID ]:<VrPortAid>:[ CTAG ];
```

Input Parameters

VrPortAid Virtual Router Port Access Identifier - Port that should be associated with the Virtual Router. *VrPortAid* is the AID [VrEpIdxAid](#).

Input Example

```
ENT-VRPORT:SYS:N1-1-VR1-1:1234;
```

Errors

This message generates all of the [Default Errors](#).

ENT-VSP

Name

ENT-VSP: Enter Voice Signal Processor

Description

Category: TDM Services **Security:** Memory Admin - by rate

This command creates a VSP port within the system.

Related Messages:

[DLT-H248](#)
[DLT-VSP](#)
[ED-VSP](#)
[ENT-IG-VSP](#)
[RTRV-ALM-H248](#)
[RTRV-H248](#)
[RTRV-VSP](#)

[DLT-IG-VSP](#)
[ED-H248](#)
[ENT-H248](#)
[REPT ALM H248](#)
[RTRV-COND-H248](#)
[RTRV-IG-VSP](#)

Input Format

```
ENT-
VSP:[TID]:<VspAid>:[CTAG]:::IP=<IP>,UDPSTART=<UDPSTART>:[<PST>];
```

Input Parameters

- VspAid** Access Identifier of the VSP. *VspAid* is the AID [VspPortAid](#).
- IP** IP Address for Bearer traffic handled by VSP. *IP* is the AID [IpAid](#).
- UDPSTART** Starting UDP port number for bearer traffic transport handled by VSP. The valid range is Port number 3000-65534. *UDPSTART* is a Integer.
- PST** Primary service state - controls whether the VSP is operational *PST* is of type [PrimaryStateChg](#). The default value is "IS".

Input Example

```
ENT-VSP:SYS:N3-2-7-
1:1234:::IP=209.204.165.201,UDPSTART=61256:OOS;
```

Errors

This message generates all of the [Default Errors](#).

ENT-XLAN

Name

ENT-XLAN: Enter XLAN

Description

Category: Ethernet **Security:** Memory Admin - by rate

This command is used to create an Extended LAN. There can be up to 100 XLANS in a C7 network, which may or may not overlap on some shelves.

An XLAN can be one of the following topologies:

- Ethernet Packet Ring
- Linear Chain
- Point-to-Point

Input Format

```
ENT-
XLAN:[ TID ] :<XLanAid> :[ CTAG ] :: : [ [ XLANNAME=<XLANNAME> , ] [ XLANBW=<XLANBW> , ]
[ TOPO=<TOPO> ] ] ;
```

Input Parameters

XLanAid EXtended LAN Access Identifier. *XLanAid* is the AID [XLanAid](#).

XLANNAME EXtended LAN NAME. This field is limited to 31 characters. *XLANNAME* is a String.

XLANBW EXtended LAN BandWidth in Mbps. *XLANBW* is of type [XlanBw](#).

TOPO Indicates the topology of the Extended LAN. Note the system makes no effort to ensure the specified topology matches the actual XLAN configuration; it is provided for user convenience only. *TOPO* is of type [EthTopo](#). The default value is "LINEAR".

Input Example

```
ENT-XLAN:SYS1:XLAN10:345:::XLANNAME=NOVATO,XLANBW=4,TOPO=LINEAR;
```

Errors

This message generates all of the [Default Errors](#).

INH-CMD-RESTR

Name

INH-CMD-RESTR: Inhibit Command Restricted

Description

Category: System **Security:** System Administration

This command is used to inhibit restricted commands and/or parameters to be entered into the system. It should only be used by expert users.

By default, restricted commands are inhibited upon login. Use the ALW-CMD-RESTR command to allow restricted commands.

Related Messages:

[ALW-CMD-RESTR](#)

[RTRV-STATUS](#)

Input Format

```
INH-CMD-RESTR:[TID]::[CTAG];
```

Input Example

```
INH-CMD-RESTR:SYS1::3243;
```

Errors

This message generates all of the [Default Errors](#).

INH-MSG-ALL

Name

INH-MSG-ALL: INH MSG ALL

Description

Category: Fault **Security:** Security User

This command restricts the C7 from transmitting automatic messages to the current logged in user. To resume transmission the ALW-MSG-ALL (Allow Message All) command must be entered by the user.

Parameters are provided to selectively disable messaging. The NTFCNCDE parameter is provided to disable automatic messages based on the notification level of the alarm/event.

The condition may be restored to normal with the ALW-MSG-ALL (Allow Message All) command.

Defined in GR-833 and modified by Calix.

Related Messages:

[ALW-MSG-ALL](#)
[RTRV-ACO](#)
[RTRV-COND-ACO](#)

[OPR-ACO](#)
[RTRV-ALM-ALL](#)
[SET-ACO](#)

Input Format

```
INH-MSG-ALL:[TID]::[CTAG]::[<NTFCNCDE>];
```

Input Parameters

NTFCNCDE Notification Code. This parameter identifies the notification code of the alarms which the user wants to inhibit. Alarms of a less severe notification code are also inhibited.
NTFCNCDE is of type [NotificationInh](#). The default value is "ALL".

Input Example

```
INH-MSG-ALL:SYSTEM1::456::CR;
```

Errors

This message generates all of the [Default Errors](#).

INH-MSG-SECU

Name

INH-MSG-SECU: Inhibit Event Security

Description

Category: Fault **Security:** Security Administrator

This command restricts the C7 from transmission of automatic security messages to a Security Administrator. To resume transmission the ALW-MSG-SECU (Allow Message Security) command must be entered. By default, security messages are inhibited upon login.

The inhibit only applies to the Security Administrator which entered the command. If two Security Administrators are defined within the system the messages to the second administrator is not affected by the execution of this command.

Related Messages:

ALW-MSG-SECU	ALW-USER-SECU
CANC-CID-SECU	CANC-SES-SECU
DLT-TMPLT-SECU	DLT-USER-SECU
ED-RADIUS	ED-SYS-SECU
ED-TMPLT-SECU	ED-USER-SECU
ENT-TMPLT-SECU	ENT-USER-SECU
INH-USER-SECU	REPT ALM SECU
REPT EVT SECU	RTRV-ALM-SECU
RTRV-COND-SECU	RTRV-RADIUS
RTRV-STATUS	RTRV-SYS-SECU
RTRV-TMPLT-SECU	RTRV-USER-SECU

Input Format

```
INH-MSG-SECU:[TID]:::[CTAG];
```

Input Example

```
INH-MSG-SECU:SYSTEM1::123;
```

Errors

This message generates all of the [Default Errors](#).

INH-STBY-UPGRD

Name

INH-STBY-UPGRD: Inhibit Standby Upgrade

Description

Category: System **Security:** System Administration

This command restricts the C7 from the automatically upgrading the database on the standby RAP when it is plugged into the system. To resume automatic upgrades the the ALW-STBY-UPGRD (Allow Standby Upgrade) command must be entered by the user.

Defined by Calix.

Related Messages:

ALW-STBY-UPGRD	DLT-ALM-SHELF
DLT-NODE	ED-DAT
ED-NODE	ED-SHELF
ED-SYS	ED-SYS-SECU
ENT-NODE	ENT-SHELF
INIT-SYS	OPR-BAR
REPT ALM SHELF	REPT EVT MEM
REPT EVT SHELF	RTRV-ALM-SHELF
RTRV-BAR	RTRV-COND-SHELF
RTRV-HDR	RTRV-NETYPE
RTRV-NODE	RTRV-SHELF
RTRV-SYS	RTRV-SYS-SECU

Input Format

INH-STBY-UPGRD: [TID] : <ShelfAid> : [CTAG] ;

Input Parameters

ShelfAid Shelf Access Identifier. The address of the shelf where the automatic upgrade of the standby RAP is to be inhibited. *ShelfAid* is the AID [ShelfAid](#).

Input Example

INH-STBY-UPGRD: SYS1:N3-1:321;

Errors

This message generates all of the [Default Errors](#).

INH-Swdx-EQPT

Name

INH-Swdx-EQPT: Inhibit Switch Duplex Equipment

Description

Category: Protection Switching

Security: Maintenance - full

This command restricts the C7 from automatic or manual protection switching on a system containing non-revertive 1:1 protection equipment scheme (duplex or redundant). To permit switching agains the ALW-Swdx-EQPT (Allow Switch Duplex Equipment) mode.

The command will cause the standby entity to transition into the STBYI state and the active entity to transistion into the NBK state.

Note if the RAP contains integrated optics, e.g. RAP-OC3/12, only the control processor on the board is affected by the inhibit. The optical transport services need to be provisioned as part of a Facility Protection Group in order to be protected.

This function is sometimes called "lockon" or "lockout."

The RTRV-COND-EQPT (Retrieve Condition Equipment) request will include the appropriate condition type information.

Defined in GR-833

Related Messages:

[ALW-Swdx-EQPT](#)
[ALW-Swtowkg-EQPT](#)
[ED-EQPT](#)
[INH-Swtoprotn-EQPT](#)
[REPT ALM EQPT](#)
[REPT RMV EQPT](#)
[RMV-EQPT](#)
[RTRV-ALM-EQPT](#)
[RTRV-EQPT](#)
[SW-Toprotn-EQPT](#)

[ALW-Swtoprotn-EQPT](#)
[DLT-EQPT](#)
[ENT-EQPT](#)
[INH-Swtowkg-EQPT](#)
[REPT EVT EQPT](#)
[REPT RST EQPT](#)
[RST-EQPT](#)
[RTRV-COND-EQPT](#)
[SW-Dx-EQPT](#)
[SW-Towkg-EQPT](#)

Input Format

INH-Swdx-EQPT:[TID]:<EqptAid>:[CTAG] ;
--

Input Parameters

EqptAid Equipment Access Identifier. The address of the equipment which is to be inhibited from duplex switching. *EqptAid* is the AID [SlotCsAid](#).

Input Example

INH-Swdx-EQPT:SYSTEM1:N1-1-CSA:789 ;

Errors

This message generates all of the [Default Errors](#).

INH-Swdx-GR303

Name

INH-Swdx-GR303: Inhibit Switch Duplex GR303

Description

Category: Protection Switching **Security:** Maintenance - full

This command restricts the C7 from automatic or manual protection switching non-revertive GR-303 EOC/TMC data links. To permit switching again the ALW-Swdx-GR303 (Allow Switch Duplex GR303).

The RTRV-COND-GR303 (Retrieve Condition GR303) request will include the appropriate condition type information.

Defined by Calix and based on INH-Swdx in GR-833.

Related Messages:

[ALW-Swdx-GR303](#)
[DLT-CRS-T0](#)
[DLT-GR8](#)
[DLT-T1TG](#)
[ED-GR8](#)
[ENT-GR303](#)

[ALW-Swdx-T1TG](#)
[DLT-GR303](#)
[DLT-IG-DS1](#)
[ED-GR303](#)
[ENT-CRS-T0](#)
[ENT-GR8](#)

ENT-IG-DS1	ENT-T1TG
INH-Swdx-T1TG	REPT ALM GR303
REPT ALM T1TG	REPT EVT GR303
REPT EVT T1TG	REPT SW GR303
REPT SW T1TG	RTRV-ALM-GR303
RTRV-ALM-T1TG	RTRV-COND-GR303
RTRV-COND-T1TG	RTRV-CRS-T0
RTRV-DLSTAT-GR303	RTRV-DLSTAT-T1TG
RTRV-GR303	RTRV-GR8
RTRV-IG-DS1	RTRV-T1TG
SW-DX-GR303	SW-DX-T1TG

Input Format

INH-Swdx-GR303:[TID]:<DataLinkSwAid>:[CTAG];

Input Parameters

DataLinkSwAid Data Link Access Identifier. The address of the data link which is now allowed to provide protection and which now cannot be switched into. *DataLinkSwAid* is the AID [IgLinkSwAid](#).

Input Example

INH-Swdx-GR303:SYSTEM1:N1-1-IG6-EOC:789;

Errors

This message generates all of the [Default Errors](#).

INH-Swdx-T1TG

Name

INH-Swdx-T1TG: Inhibit Switch Duplex T1 Transport Group

Description

Category: Protection Switching

Security: Maintenance - full

This command restricts the C7 from automatic or manual protection switching non-revertive T1 Transport

Group EOC/TMC data links. To permit switching again the ALW-Swdx-T1TG (Allow Switch Duplex T1TG).

The RTRV-COND-T1TG (Retrieve Condition T1TG) request will include the appropriate condition type information.

Defined by Calix and based on INH-Swdx in GR-833.

Related Messages:

[ALW-Swdx-GR303](#)

[DLT-CRS-T0](#)

[DLT-GR8](#)

[DLT-T1TG](#)

[ED-GR8](#)

[ENT-GR303](#)

[ENT-IG-DS1](#)

[INH-Swdx-GR303](#)

[REPT ALM T1TG](#)

[REPT EVT T1TG](#)

[REPT SW T1TG](#)

[RTRV-ALM-T1TG](#)

[RTRV-COND-T1TG](#)

[RTRV-DLSTAT-GR303](#)

[RTRV-GR303](#)

[RTRV-IG-DS1](#)

[SW-DX-GR303](#)

[ALW-Swdx-T1TG](#)

[DLT-GR303](#)

[DLT-IG-DS1](#)

[ED-GR303](#)

[ENT-CRS-T0](#)

[ENT-GR8](#)

[ENT-T1TG](#)

[REPT ALM GR303](#)

[REPT EVT GR303](#)

[REPT SW GR303](#)

[RTRV-ALM-GR303](#)

[RTRV-COND-GR303](#)

[RTRV-CRS-T0](#)

[RTRV-DLSTAT-T1TG](#)

[RTRV-GR8](#)

[RTRV-T1TG](#)

[SW-DX-T1TG](#)

Input Format

INH-Swdx-T1TG:[TID]:<DataLinkSwAid>:[CTAG];

Input Parameters

DataLinkSwAid Data Link Access Identifier. The address of the data link which is now allowed to provide protection and which now cannot be switched into. *DataLinkSwAid* is the AID [IgLinkSwAid](#).

Input Example

INH-Swdx-T1TG:SYSTEM1:N1-1-IG6-EOC:789;

Errors

This message generates all of the [Default Errors](#).

INH-SWTOPROTN-EQPT

Name

INH-SWTOPROTN-EQPT: Inhibit Switch To Protection Equipment

Description

Category: Protection Switching

Security: Maintenance - full

This command instructs the C7 to restrict automatic or manual switching of the working equipment unit to the protection unit in a 1:n or 1:1 protection equipment scheme. To release the inhibit protection switch, the ALW-SWTOPROTN-EQPT (Allow Switch to Protection Equipment) command must be entered.

The protection unit is the unit which is normally in the standby mode waiting to provide protection to a group of working units. The working card is the unit which normally carries the load.

By default 1:n or 1:1 protection equipment switching is allowed and is only inhibited when the user enters this command. The inhibit state is a persistent state which is maintained over system or card restart. When a protecting unit is inhibited the entity will transition into the STBYI service state, while the protected entity will transition into the NBK service state.

The AID is used must specify a protection unit which is to be inhibited from switching.

This function is sometimes called "lockon" or "lockout."

The RTRV-COND-EQPT (Retrieve Condition Equipment) request will include the appropriate condition type information.

Defined in GR-833.

Related Messages:

[ALW-Swdx-EQPT](#)

[ALW-Swtowkg-EQPT](#)

[ED-EQPT](#)

[INH-Swdx-EQPT](#)

[Rept Alm Eqpt](#)

[Rept Rmv Eqpt](#)

[Rmv-EQPT](#)

[Rtrv-Alm-EQPT](#)

[Rtrv-EQPT](#)

[Sw-Toprotn-EQPT](#)

[ALW-SWTOPROTN-EQPT](#)

[DLT-EQPT](#)

[ENT-EQPT](#)

[INH-SWTOWKG-EQPT](#)

[ReptEvt Eqpt](#)

[ReptRst Eqpt](#)

[Rst-EQPT](#)

[Rtrv-Cond-EQPT](#)

[Sw-Dx-EQPT](#)

[Sw-Towkg-EQPT](#)

Input Format

INH-SWTOPTN-EQPT:[TID]:<EqptAid>:[CTAG];
--

Input Parameters

EqptAid Equipment Protection Access Identifier. The address of the protection equipment unit which is to be inhibited from carrying the load. *EqptAid* is the AID [SlotLuAid](#).

Input Example

INH-SWTOPTN-EQPT:SYSTEM1:N2-1-11:567;

Errors

This message generates all of the [Default Errors](#).

INH-SWTOWKG-EQPT

Name

INH-SWTOWKG-EQPT: Inhibit SWTOWKG Equipment

Description

Category: Protection Switching

Security: Maintenance - full

This command instructs the C7 to restrict automatic or manual switching from the protection equipment unit back to the working unit. To release from inhibit, protection switch the ALW-SWTOWKG-EQPT (Allow Switch to Working Equipment) command must be used.

The protecting unit is the unit which is normally in the standby mode waiting to provide protection to the a group of working units in a revertive 1:n or 1:1 protection equipment scheme. The protected card is the unit which normally carries the load.

By default 1:n or 1:1 protection equipment switching is allowed and is only inhibited when the user enters this command. The inhibit state is a persistent state which is maintained over system or card restart. This command puts the protected entity into the PRI state and the protecting unit into a NBK service state.

The AID must specify the working unit being inhibited from carrying the load.

This function is sometimes called "lockon a protection unit" or "lockout a working unit."

The RTRV-COND-EQPT (Retrieve Condition Equipment) request will include the appropriate condition type information.

Defined in GR-833.

Related Messages:

[ALW-SWDX-EQPT](#)
[ALW-SWTOWKG-EQPT](#)
[ED-EQPT](#)
[INH-SWDX-EQPT](#)
[REPT ALM EQPT](#)
[REPT RMV EQPT](#)
[RMV-EQPT](#)
[RTRV-ALM-EQPT](#)
[RTRV-EQPT](#)
[SW-TOPROTN-EQPT](#)

[ALW-SWTOPROTN-EQPT](#)
[DLT-EQPT](#)
[ENT-EQPT](#)
[INH-SWTOPROTN-EQPT](#)
[REPT EVT EQPT](#)
[REPT RST EQPT](#)
[RST-EQPT](#)
[RTRV-COND-EQPT](#)
[SW-DX-EQPT](#)
[SW-TOWKG-EQPT](#)

Input Format

```
INH-SWTOWKG-EQPT:[TID]:<EqptAid>:[CTAG];
```

Input Parameters

EqptAid Equipment Working Access Identifier. The address of the working equipment unit which is to be inhibited from carrying the load. *EqptAid* is the AID [SlotLuAid](#).

Input Example

```
INH-SWTOWKG-EQPT:SYSTEM1:N4-4-1:789;
```

Errors

This message generates all of the [Default Errors](#).

INH-USER-SECU

Name

INH-USER-SECU: Inhibit User Security

Description

Category: Security

Security: Security Administrator

This command is used by the appropriate administrator to disable UID. To re-instate the UID, the ALW-USER-SECU (Allow User Security) command is used.

Any TID may be used for this command as the security data associated with this command will be updated across the entire C7 network as a result of the execution of this command.

Defined in TR-835 with optional AID not being supported by Calix.

Related Messages:

[ACT-USER](#)

[ALW-USER-SECU](#)

[CANC-CID-SECU](#)

[CANC-SES-SECU](#)

[DLT-TMPLT-SECU](#)

[DLT-USER-SECU](#)

[ED-RADIUS](#)

[ED-TMPLT-SECU](#)

[ENT-TMPLT-SECU](#)

[ENT-USER-SECU](#)

[REPT ALM SECU](#)

[RTRV-ALM-SECU](#)

[RTRV-RADIUS](#)

[RTRV-SYS-SECU](#)

[RTRV-USER-ACL](#)

[ALW-MSG-SECU](#)

[CANC](#)

[CANC-PPPOESESS](#)

[CANC-USER](#)

[DLT-USER-ACL](#)

[ED-PID](#)

[ED-SYS-SECU](#)

[ED-USER-SECU](#)

[ENT-USER-ACL](#)

[INH-MSG-SECU](#)

[REPT EVT SECU](#)

[RTRV-COND-SECU](#)

[RTRV-STATUS](#)

[RTRV-TMPLT-SECU](#)

[RTRV-USER-SECU](#)

Input Format

INH-USER-SECU:[TID]::[CTAG]:::<UIDLIST>;

Input Parameters

UIDLIST User Identifier. A list of one or more non-confidential identifier that uniquely identifies the user which will have the session privileges inhibited (separated by &s). *UIDLIST* is a String.

Input Example

INH-USER-SECU:SYSTEM1::890::JOEY;;

Errors

This message generates all of the [Default Errors](#).

INIT-ADSL

Name

INIT-ADSL: Initialize Asymmetric Digital Subscriber Line

Description

Category: ADSL Facility

Security: Maintenance - by rate

Instructs the C7 to initialize an ADSL port which causes a retraining of the ADSL port. Retraining basically means link rate re-negotiation. Executing this command will bring down the DSL link and cause the modem to re-negotiate the connection.

Related Messages:

[DLT-ADSL](#)

[DLT-TMPLT-ADSL](#)

[ED-GOS-ADSL](#)

[ENT-GOS-ADSL](#)

[INIT-PWR-ADSL](#)

[REPT ALM ADSL](#)

[REPT RMV ADSL](#)

[RMV-ADSL](#)

[RTRV-ADSL](#)

[RTRV-COND-ADSL](#)

[RTRV-GOS-ADSL](#)

[RTRV-TMPLT-ADSL](#)

[DLT-GOS-ADSL](#)

[ED-ADSL](#)

[ENT-ADSL](#)

[ENT-TMPLT-ADSL](#)

[INIT-REG-ADSL](#)

[REPT EVT ADSL](#)

[REPT RST ADSL](#)

[RST-ADSL](#)

[RTRV-ALM-ADSL](#)

[RTRV-CSTAT-ADSL](#)

[RTRV-PM-ADSL](#)

Input Format

```
INIT-ADSL:[TID]:<AdslAid>:[CTAG];
```

Input Parameters

AdslAid Asymmetrical Digital Subscriber Line Access Identifier. The address of the ADSL port being initialized/retrained. *AdslAid* is the AID [TwentyFourPortLuRngAid](#) and is listable and rangeable.

Input Example

```
INIT-ADSL:SYS4:N3-4-3-2:653;
```

Errors

This message generates all of the [Default Errors](#).

INIT-CSTAT-VC

Name

INIT-CSTAT-VC: Initialize CSTAT VC

Description

Category: Virtual Facility **Security:** Maintenance - full

This command clears the ATM performance monitoring parameters for a VC.

Related Messages:

ACT-PROTN-VC	ACT-PROTN-VP
DLT-CRS-VC	DLT-CRS-VP
DLT-PP	DLT-PROF-TRF
ED-CRS-VC	ED-CRS-VP
ED-PROF-TRF	ENT-CRS-VC
ENT-CRS-VP	ENT-PP
ENT-PROF-TRF	INIT-CSTAT-VP
INJ-LPBK-VC	INJ-LPBK-VP
MV-CRS-VC	MV-CRS-VP
OPR-CC-VC	OPR-CC-VP
REPT ALM PP	REPT EVT PP
REPT EVT VC	REPT EVT VP
REPT RMV PP	REPT RST PP
RLS-CC-VC	RLS-CC-VP
RMV-PP	RST-PP
RTRV-ALM-PP	RTRV-COND-PP
RTRV-CRS-VC	RTRV-CRS-VP
RTRV-CSTAT-VC	RTRV-CSTAT-VP
RTRV-PP	RTRV-PROF-TRF
RTRV-VTI	

Input Format

INIT-CSTAT-VC: [TID] : <VcAid> : [CTAG] ;

Input Parameters

VcAid Virtual Circuit (VC) Access Identifier. The address of the virtual circuit being initialized/retrained. *VcAid* is the AID [VcId](#).

Input Example

```
INIT-CSTAT-VC:SYS1:N8-3-8-1-VP100-VC55:342;
```

Errors

This message generates all of the [Default Errors](#).

INIT-CSTAT-VP

Name

INIT-CSTAT-VP: Initialize Call Status Virtual Path

Description

Category: Virtual Facility **Security:** Maintenance - full

This command clears the ATM performance monitoring parameters for a VP.

Related Messages:

[ACT-PROTN-VC](#)

[DLT-CRS-VC](#)

[DLT-PP](#)

[ED-CRS-VC](#)

[ED-PROF-TRF](#)

[ENT-CRS-VP](#)

[ENT-PROF-TRF](#)

[INJ-LPBK-VC](#)

[MV-CRS-VC](#)

[OPR-CC-VC](#)

[REPT ALM PP](#)

[REPT EVT VC](#)

[REPT RMV PP](#)

[RLS-CC-VC](#)

[ACT-PROTN-VP](#)

[DLT-CRS-VP](#)

[DLT-PROF-TRF](#)

[ED-CRS-VP](#)

[ENT-CRS-VC](#)

[ENT-PP](#)

[INIT-CSTAT-VC](#)

[INJ-LPBK-VP](#)

[MV-CRS-VP](#)

[OPR-CC-VP](#)

[REPT EVT PP](#)

[REPT EVT VP](#)

[REPT RST PP](#)

[RLS-CC-VP](#)

[RMV-PP](#)
[RTRV-ALM-PP](#)
[RTRV-CRS-VC](#)
[RTRV-CSTAT-VC](#)
[RTRV-PP](#)
[RTRV-VTI](#)

[RST-PP](#)
[RTRV-COND-PP](#)
[RTRV-CRS-VP](#)
[RTRV-CSTAT-VP](#)
[RTRV-PROF-TRF](#)

Input Format

```
INIT-CSTAT-VP:[TID]:<VpAid>:[CTAG];
```

Input Parameters

VpAid Virtual Path (VP) Access Identifier. The address of the virtual path being initialized/retrained.
VpAid is the AID [VpAid](#).

Input Example

```
INIT-CSTAT-VP:SYS1:N8-3-8-1-VP100:342;
```

Errors

This message generates all of the [Default Errors](#).

INIT-HDSL

Name

INIT-HDSL: Initialize High bit rate Digital Subscriber Line

Description

Category: HDSL Facility **Security:** Maintenance - full

Instructs the C7 to initialize an HDSL port which causes a retraining of the HDSL port. Retraining basically means link rate re-negotiation. Executing this command will bring down the DSL link and cause the modem to re-negotiate the connection.

Related Messages:

[DLT-GOS-HDSL](#)
[ED-GOS-HDSL](#)

[DLT-HDSL](#)
[ED-HDSL](#)

[ENT-GOS-HDSL](#)
[INIT-REG-HDSL](#)
[REPT ALM HDSL](#)
[REPT RMV HDSL](#)
[RLS-LPBK-HDSL](#)
[RST-HDSL](#)
[RTRV-COND-HDSL](#)
[RTRV-GOS-HDSL](#)
[RTRV-HTU](#)

[ENT-HDSL](#)
[OPR-LPBK-HDSL](#)
[REPT EVT HDSL](#)
[REPT RST HDSL](#)
[RMV-HDSL](#)
[RTRV-ALM-HDSL](#)
[RTRV-CSTAT-HDSL](#)
[RTRV-HDSL](#)
[RTRV-PM-HDSL](#)

Input Format

```
INIT-HDSL:[TID]:<HdslAid>:[CTAG];
```

Input Parameters

HdslAid HDSL Port Access Identifier. The address of the HDSL port being initialized. *HdslAid* is the AID [SixPortLuRngAid](#) and is listable and rangeable.

Input Example

```
INIT-HDSL:SYS4:N3-4-3-2:653;
```

Errors

This message generates all of the [Default Errors](#).

INIT-HOST-IP

Name

INIT-HOST-IP: Initialize HOST IP

Description

Category: VOIP **Security:** Maintenance - full

Forces the ONT to re-aquire the IP address for a host.

Input Format

INIT-HOST-IP:[TID]:<Aid>:[CTAG]:::[IG=<IG>];
--

Input Parameters

Aid Aid is the AID [SipId1](#) and is listable.

IG IG is the AID [IgAid](#).

Input Example

INIT-HOST-IP:SYS1:N1-1-3-2-32-1:321:::IG=N1-1-IG3;
--

Errors

This message generates all of the [Default Errors](#).

INIT-LOG

Name

INIT-LOG: Initialize Log

Description

Category: Log **Security:** Maintenance - full

Instructs the C7 to initialize a specified message log. When this command is executed clears the contents of the existing log. Also, a entry in the log is made to indicate the date and time the log was initialized.

Defined in GR-833.

Related Messages:

[REPT EVT LOG](#)

[RTRV-LOG](#)

[RTRV-COND-LOG](#)

Input Format

INIT-LOG:[TID]:<ShelfAid>:[CTAG]:::<LOGNM>;

Input Parameters

ShelfAid Shelf Access Identifier. The address of the shelf where the log is to be initialized. *ShelfAid* is the AID [ShelfAid](#).

LOGNM The name of the log to be initialized. Note that the security log cannot be initialized, per GR-815. *LOGNM* is of type [LogName](#).

Input Example

```
INIT-LOG:SYS4:N6-4:CTAG::DBCHG;
```

Errors

This message generates all of the [Default Errors](#).

INIT-LSWITCH

Name

INIT-LSWITCH: Initialize Logical Switch

Description

Category: Ethernet **Security:** Maintenance - full

Instructs the C7 to re-initialize a particular LSwitch on a given XLan, or to reset all LSwitches on a given shelf. This command may be used as an attempt to remedy alarmed conditions against the LSwitch.

Defined by Calix.

Related Messages:

[DLT-AGG](#)
[DLT-AGG-PORT](#)
[DLT-ETH-ACL](#)
[DLT-LSWITCH](#)
[DLT-PROF-ETH](#)
[DLT-VLAN-PORT](#)
[ED-ETH](#)
[ED-VLAN](#)
[ED-VLAN-VBPORT](#)
[ENT-AGG-ACL](#)
[ENT-ETH](#)
[ENT-GOS-ETH](#)

[DLT-AGG-ACL](#)
[DLT-ETH](#)
[DLT-GOS-ETH](#)
[DLT-LSWITCH-PORT](#)
[DLT-VLAN](#)
[DLT-VLAN-VBPORT](#)
[ED-GOS-ETH](#)
[ED-VLAN-PORT](#)
[ENT-AGG](#)
[ENT-AGG-PORT](#)
[ENT-ETH-ACL](#)
[ENT-LSWITCH](#)

ENT-LSWITCH-PORT	ENT-PROF-ETH
ENT-VLAN	ENT-VLAN-PORT
ENT-VLAN-VBPORT	INIT-STAT-ETH
REPT ALM ETH	REPT EVT ETH
REPT RMV ETH	REPT RST ETH
RMV-ETH	RST-ETH
RTRV-AGG	RTRV-AGG-ACL
RTRV-AGG-PORT	RTRV-ALM-ETH
RTRV-COND-ETH	RTRV-ETH
RTRV-ETH-ACL	RTRV-GOS-ETH
RTRV-LSWITCH	RTRV-LSWITCH-PORT
RTRV-PM-ETH	RTRV-PROF-ETH
RTRV-STAT-ETH	RTRV-VLAN
RTRV-VLAN-PORT	RTRV-VLAN-VBPORT

Input Format

```
INIT-LSWITCH:[TID]:<LSwitchAid>:[CTAG];
```

Input Parameters

LSwitchAid Logical Switch Access Identifier. *LSwitchAid* is the AID [LSwitchRngAid](#) and is listable and rangeable.

Input Example

```
INIT-LSWITCH:SYS6:N2-1-XLAN1:1234;
```

Errors

This message generates all of the [Default Errors](#).

INIT-ONT-UA

Name

INIT-ONT-UA: Initialize Optical Network Termination UA

Description

Category: PON **Security:** Maintenance - full

This command initializes the list of connected ONTs that have not yet been provisioned for service. After this command is performed the list will be recreated as ONTs are again detected. (See RTRV-ONT-UA.)

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-REG-ONT
REPT ALM AVO	REPT ALM ONT
REPT ALM RFVID	REPT ALM VCG
REPT ALM VRP	REPT EVT ONT
REPT RMV AVO	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
INIT-ONT-UA : [ TID ] : <PonRngAid> : [ CTAG ] ;
```

Input Parameters

PonRngAid The PON Port Access Identifier. *PonRngAid* is the AID [FourPortLuRngAid](#) and is listable and rangeable.

Input Example

```
INIT-ONT-UA:SYS1:N3-4-3-10-2:321;
```

Errors

This message generates all of the [Default Errors](#).

INIT-PWR-ADSL

Name

INIT-PWR-ADSL: Initialize Power Asymmetric Digital Subscriber Line

Description

Category: ADSL Facility **Security:** Maintenance - full

This command forces a transition to the specified Power Management State. It is applicable for ADSL2 and ADSL2+ service types.

Related Messages:

DLT-ADSL	DLT-GOS-ADSL
DLT-TMPLT-ADSL	ED-ADSL
ED-GOS-ADSL	ENT-ADSL
ENT-GOS-ADSL	ENT-TMPLT-ADSL
INIT-ADSL	INIT-REG-ADSL
REPT ALM ADSL	REPT EVT ADSL
REPT RMV ADSL	REPT RST ADSL
RMV-ADSL	RST-ADSL
RTRV-ADSL	RTRV-ALM-ADSL
RTRV-COND-ADSL	RTRV-CSTAT-ADSL
RTRV-GOS-ADSL	RTRV-PM-ADSL
RTRV-TMPLT-ADSL	

Input Format

INIT-PWR-ADSL:[TID]:<AdslAid>:[CTAG]::<PMSF>;

Input Parameters

AdslAid Asymmetrical Digital Subscriber Line Access Identifier. The address of the ADSL port being affected. *AdslAid* is the AID [TwelvePortLuRngAid](#) and is listable and rangeable.

PMSF Power Management State Forced. A value of either L2 or L3 can be provided. *PMSF* is of type [AdslPwrMgmtStatesFrcl](#).

Input Example

INIT-PWR-ADSL:SYS1:N2-4-11-3:234::L2;

Errors

This message generates all of the [Default Errors](#).

INIT-REG-<OCN>

Name

INIT-REG-<OCN>: Initialize Register (OC12, OC3, OC48)

Description

Category: Performance Monitoring

Security: Maintenance - by rate

This command initializes the current bins of the performance monitoring (PM) registers identified by the command parameters. The PM registers are always reset to zero.

Defined in GR-833.

Related Messages:

[DLT-<OCN>](#)
[DLT-GOS-<OCN>](#)
[ED-FFP-<OCN>](#)
[ENT-<OCN>](#)
[ENT-GOS-<OCN>](#)
[OPR-PROTNSW-<OCN>](#)
[REPT EVT <OCN>](#)
[REPT RST <OCN>](#)

[DLT-FFP-<OCN>](#)
[ED-<OCN>](#)
[ED-GOS-<OCN>](#)
[ENT-FFP-<OCN>](#)
[OPR-LPBK-<OCN>](#)
[REPT ALM <OCN>](#)
[REPT RMV <OCN>](#)
[RLS-LPBK-<OCN>](#)

[RLS-PROTNSW-<OCN>](#)
[RST-<OCN>](#)
[RTRV-ALM-<OCN>](#)
[RTRV-FFP-<OCN>](#)
[RTRV-PM-<OCN>](#)

[RMV-<OCN>](#)
[RTRV-<OCN>](#)
[RTRV-COND-<OCN>](#)
[RTRV-GOS-<OCN>](#)

Input Format

```
INIT-REG-<OCN>:[ TID ]:<OcNAid>:[ CTAG ]::,,  
[ <LOCN> ],,[ <TMPPER> ] ;
```

Input Parameters

OcNAid OCn Port Access Identifier. The address of the OCn Port which is to have the PM registers initialized. *OcNAid* is the AID [FourPortLuAndRapAid](#).

LOCN Location. This parameter indicates whether the near end or far end PM registers should be reset. If parameter is not entered, then the registers for both locations will be initialized. *LOCN* is of type [Location](#).

TMPPER Time Period. This parameter indicates which of the threshold periods should be reset. If parameter is not entered, then all periods will be initialized. *TMPPER* is of type [PMPPeriod](#).

Input Example

```
INIT-REG-OC12:NODE5SHELF3:N5-3-3-1:CT35::,,NEND,,15-MIN;
```

Errors

This message generates all of the [Default Errors](#).

INIT-REG-<STS>

Name

INIT-REG-<[STS](#)>: Initialize Register (STS1, STS12C, STS3C, STS48C)

Description

Category: Performance Monitoring

Security: Maintenance - by rate

This command initializes the current bins of the performance monitoring (PM) registers identified by the command parameters. The PM registers are always reset to zero.

Defined in GR-833.

Related Messages:

[DLT-<STSN>](#)
[DLT-GOS-<STSN>](#)
[ED-CRS-<STSN>](#)
[ENT-<STSN>](#)
[ENT-GOS-<STSN>](#)
[REPT ALM <STSN>](#)
[REPT RMV <STSN>](#)
[RLS-PROTNSW-<STSN>](#)
[RST-<STSN>](#)
[RTRV-ALM-<STSN>](#)
[RTRV-CRS-<STSN>](#)
[RTRV-PM-<STSN>](#)

[DLT-CRS-<STSN>](#)
[ED-<STSN>](#)
[ED-GOS-<STSN>](#)
[ENT-CRS-<STSN>](#)
[OPR-PROTNSW-<STSN>](#)
[REPT EVT <STSN>](#)
[REPT RST <STSN>](#)
[RMV-<STSN>](#)
[RTRV-<STSN>](#)
[RTRV-COND-<STSN>](#)
[RTRV-GOS-<STSN>](#)

Input Format

```
INIT-REG-<STSN>:[TID]:<StsAid>:[CTAG]:::,  

[<LOCN>],,[<TMPER>];
```

Input Parameters

StsAid STS Path Access Identifier. The address of the STS path which is to have the PM registers initialized. *StsAid* is the AID [StsAid](#).

LOCN Location. This parameter indicates whether the near end or far end PM registers should be reset. If parameter is not entered, then the registers for both locations will be initialized. *LOCN* is of type [Location](#).

TMPER Time Period. This parameter indicates which of the threshold periods should be reset. If parameter is not entered, then all periods will be initialized. *TMPER* is of type [PMPPeriod](#).

Input Example

```
INIT-REG-STS1:SYS3:N3-4-3-3-4:654::,,FEND,,1-DAY;
```

Errors

This message generates all of the [Default Errors](#).

INIT-REG-ADSL

Name

INIT-REG-ADSL: Initialize Register Asymmetric Digital Subscriber Line

Description

Category: Performance Monitoring

Security: Maintenance - by rate

This command initializes the current bins of the performance monitoring (PM) registers identified by the command parameters. The PM registers are always reset to zero.

Defined in GR-833.

Related Messages:

[DLT-ADSL](#)

[DLT-TMPLT-ADSL](#)

[ED-GOS-ADSL](#)

[ENT-GOS-ADSL](#)

[INIT-ADSL](#)

[REPT ALM ADSL](#)

[REPT RMV ADSL](#)

[RMV-ADSL](#)

[RTRV-ADSL](#)

[RTRV-COND-ADSL](#)

[RTRV-GOS-ADSL](#)

[RTRV-TMPLT-ADSL](#)

[DLT-GOS-ADSL](#)

[ED-ADSL](#)

[ENT-ADSL](#)

[ENT-TMPLT-ADSL](#)

[INIT-PWR-ADSL](#)

[REPT EVT ADSL](#)

[REPT RST ADSL](#)

[RST-ADSL](#)

[RTRV-ALM-ADSL](#)

[RTRV-CSTAT-ADSL](#)

[RTRV-PM-ADSL](#)

Input Format

```
INIT-REG-ADSL:[TID]:<ApAid>:[CTAG]:::,[<LOCN>],,[<TMPER>];
```

Input Parameters

ApAid ADSL Port Access Identifier. The address of the ADSL port which is to have the PM registers initialized. *ApAid* is the AID [TwentyFourPortLuAid](#).

LOCN Location. This parameter indicates whether the near end or far end PM registers should be reset. If parameter is not entered, then the registers for both locations will be initialized. *LOCN* is of type [Location](#).

TMPER Time Period. This parameter indicates which of the threshold periods should be reset. If parameter is not entered, then all periods will be initialized. *TMPER* is of type [PMPPeriod](#).

Input Example

INIT-REG-ADSL:SYS3:N3-4-3-3:654::,,NEND,,15-MIN;
--

Errors

This message generates all of the [Default Errors](#).

INIT-REG-AP

Name

INIT-REG-AP: Initialize Register ATM Resource Port

Description

Category: Performance Monitoring

Security: Maintenance - by rate

This command initializes the current bins of the performance monitoring (PM) registers identified by the command parameters. The PM registers are always reset to zero.

Related Messages:

[DLT-AP](#)

[DLT-AP-T1](#)

[DLT-GOS-AP](#)

[DLT-GOS-IMA](#)

[DLT-GOS-IMALINK](#)

[DLT-IMA](#)

[DLT-IMA-PORT](#)

[ED-AP](#)

[ED-GOS-AP](#)

[ED-GOS-IMA](#)

[ED-GOS-IMALINK](#)

[ED-IMA](#)

[ENT-AP](#)

[ENT-AP-T1](#)

[ENT-GOS-AP](#)

[ENT-GOS-IMA](#)

[ENT-GOS-IMALINK](#)

[ENT-IMA](#)

[ENT-IMA-PORT](#)

[INIT-REG-IMA](#)

[INIT-REG-IMALINK](#)

[REPT ALM AP](#)

[REPT ALM IMA](#)

[REPT ALM IMALINK](#)

[REPT EVT AP](#)

[REPT EVT IMA](#)

[REPT EVT IMALINK](#)

[REPT RMV AP](#)

[REPT RST AP](#)

[RMV-AP](#)

[RST-IMA](#)

[RST-AP](#)

[RTRV-ALM-IMA](#)

[RTRV-ALM-AP](#)

[RTRV-AP](#)

[RTRV-COND-AP](#)

[RTRV-COND-IMA](#)

[RTRV-GOS-AP](#)

[RTRV-GOS-IMA](#)
[RTRV-IMA](#)
[RTRV-PM-IMA](#)

[RTRV-GOS-IMALINK](#)
[RTRV-PM-AP](#)
[RTRV-PM-IMALINK](#)

Input Format

```
INIT-REG-AP:[TID]:<ApAid>:[CTAG]::,,[<LOCN>],,[<TMPER>];
```

Input Parameters

- ApAid** ATM Resource Port Access Identifier. The address of the ATM Resource port which is to have the PM registers initialized. *ApAid* is the AID [AtmRscPortAid](#).
- LOCN** Location. This parameter indicates whether the near end or far end PM registers should be reset. If parameter is not entered, then the registers for both locations will be initialized. *LOCN* is of type [Location](#).
- TMPER** Time Period. This parameter indicates which of the threshold periods should be reset. If parameter is not entered, then all periods will be initialized. *TMPER* is of type [PMPPeriod](#).

Input Example

```
INIT-REG-AP:SYS3:N3-4-3-AP1:654::,,NEND,,15-MIN;
```

Errors

This message generates all of the [Default Errors](#).

INIT-REG-EC1

Name

INIT-REG-EC1: Initialize Register Electrical Carrier

Description

Category: Performance Monitoring **Security:** Maintenance - by rate

This command initializes the current bins of the performance monitoring (PM) registers identified by the command parameters. The PM registers are always reset to zero.

Related Messages:

DLT-EC1	DLT-GOS-EC1
ED-EC1	ED-GOS-EC1
ENT-EC1	ENT-GOS-EC1
OPR-LPBK-EC1	REPT ALM EC1
REPT EVT EC1	REPT RMV EC1
REPT RST EC1	RLS-LPBK-EC1
RMV-EC1	RST-EC1
RTRV-ALM-EC1	RTRV-COND-EC1
RTRV-EC1	RTRV-GOS-EC1
RTRV-PM-EC1	

Input Format

```
INIT-REG-EC1:[TID]:<Ec1Aid>:[CTAG]:::,[<LOCN>],,[<TMPER>];
```

Input Parameters

Ec1Aid Access Identifier. The address of the EC1 Port which is to have the PM registers initialized.
Ec1Aid is the AID [TwelvePortLuAid](#).

LOCN Location. Indicates whether the near end or far end Path PM registers are to be edited. Section PM registers are only kept in association with the near end. *LOCN* is of type [Location](#).

TMPER Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. *TMPER* is of type [PMPPeriod](#).

Input Example

```
INIT-REG-EC1:NODE5SHELF3:N5-3-3-1:CT35::,,NEND,,15-MIN;
```

Errors

This message generates all of the [Default Errors](#).

INIT-REG-HDSL

Name

INIT-REG-HDSL: Initialize Register High bit rate Digital Subscriber Line

Description

Category: Performance Monitoring**Security:** Maintenance - by rate

This command initializes the current bins of the performance monitoring (PM) registers identified by the command parameters. The PM register are always reset to zero.

Defined in GR-833.

Related Messages:

[DLT-GOS-HDSL](#)

[ED-GOS-HDSL](#)

[ENT-GOS-HDSL](#)

[INIT-HDSL](#)

[REPT ALM HDSL](#)

[REPT RMV HDSL](#)

[RLS-LPBK-HDSL](#)

[RST-HDSL](#)

[RTRV-COND-HDSL](#)

[RTRV-GOS-HDSL](#)

[RTRV-HTU](#)

[DLT-HDSL](#)

[ED-HDSL](#)

[ENT-HDSL](#)

[OPR-LPBK-HDSL](#)

[REPT EVT HDSL](#)

[REPT RST HDSL](#)

[RMV-HDSL](#)

[RTRV-ALM-HDSL](#)

[RTRV-CSTAT-HDSL](#)

[RTRV-HDSL](#)

[RTRV-PM-HDSL](#)

Input Format

```
INIT-REG-HDSL:[TID]:<HdslAid>:[CTAG]:::,,[<LOCN>],,[<TMPPER>];
```

Input Parameters

HdslAid HDSL Port Access Identifier. The address of the HDSL port which is to have the PM registers initialized. *HdslAid* is the AID [SixPortLuAid](#).

LOCN Location. This parameter indicates whether the near end or far end PM registers should be reset. If parameter is not entered, then the registers for both locations will be initialized. *LOCN* is of type [Location](#).

TMPPER Time Period. This parameter indicates which of the threshold periods should be reset. If parameter is not entered, then all periods will be initialized. *TMPPER* is of type [PMPPeriod](#).

Input Example

```
INIT-REG-HDSL:SYS3:N3-4-3-1:654::,,NEND,,15-MIN;
```

Errors

This message generates all of the [Default Errors](#).

INIT-REG-IMA

Name

INIT-REG-IMA: Initialize Register IMA

Description

Category: Performance Monitoring

Security: Maintenance - by rate

This command initializes the current bins of the performance monitoring (PM) registers identified by the command parameters. The PM registers are always reset to zero.

Related Messages:

[DLT-AP](#)

[DLT-AP-T1](#)

[DLT-GOS-AP](#)

[DLT-GOS-IMA](#)

[DLT-GOS-IMALINK](#)

[DLT-IMA](#)

[DLT-IMA-PORT](#)

[ED-AP](#)

[ED-GOS-AP](#)

[ED-GOS-IMA](#)

[ED-GOS-IMALINK](#)

[ED-IMA](#)

[ENT-AP](#)

[ENT-AP-T1](#)

[ENT-GOS-AP](#)

[ENT-GOS-IMA](#)

[ENT-GOS-IMALINK](#)

[ENT-IMA](#)

[ENT-IMA-PORT](#)

[INIT-REG-AP](#)

[INIT-REG-IMALINK](#)

[REPT ALM AP](#)

[REPT ALM IMA](#)

[REPT ALM IMALINK](#)

[REPT EVT AP](#)

[REPT EVT IMA](#)

[REPT EVT IMALINK](#)

[REPT RMV AP](#)

[REPT RST AP](#)

[RMV-AP](#)

[RMV-IMA](#)

[RST-AP](#)

[RST-IMA](#)

[RTRV-ALM-AP](#)

[RTRV-ALM-IMA](#)

[RTRV-ALM-IMALINK](#)

[RTRV-AP](#)

[RTRV-COND-AP](#)

[RTRV-COND-IMA](#)

[RTRV-GOS-AP](#)

[RTRV-GOS-IMA](#)

[RTRV-GOS-IMALINK](#)

[RTRV-IMA](#)

[RTRV-PM-AP](#)

[RTRV-PM-IMA](#)

[RTRV-PM-IMALINK](#)

Input Format

INIT-REG-IMA:[TID]:<ImaAid>:[CTAG]::,,[<LOCN>],,[<TMPER>];
--

Input Parameters

- ImaAid** IMA Group Access Identifier. The address of the IMA Group which is to have the PM registers initialized. *ImaAid* is the AID [ImaGrpAid](#).
- LOCN** Location. This parameter indicates whether the near end or far end PM registers should be reset. If parameter is not entered, then the registers for both locations will be initialized. *LOCN* is of type [Location](#).
- TMPER** Time Period. This parameter indicates which of the threshold periods should be reset. If parameter is not entered, then all periods will be initialized. *TMPER* is of type [PMPPeriod](#).

Input Example

```
INIT-REG-IMA:SYS3:N3-4-3-IMA3:654::,NEND,,15-MIN;
```

Errors

This message generates all of the [Default Errors](#).

INIT-REG-IMALINK

Name

INIT-REG-IMALINK: Initialize Register IMA Link

Description

Category: Performance Monitoring

Security: Maintenance - by rate

This command initializes the current bins of the performance monitoring (PM) registers identified by the command parameters. The PM registers are always reset to zero.

Related Messages:

[DLT-AP](#)

[DLT-AP-T1](#)

[DLT-GOS-AP](#)

[DLT-GOS-IMA](#)

[DLT-GOS-IMALINK](#)

[DLT-IMA](#)

[DLT-IMA-PORT](#)

[ED-AP](#)

[ED-GOS-AP](#)

[ED-GOS-IMA](#)

[ED-GOS-IMALINK](#)

[ED-IMA](#)

[ENT-AP](#)

[ENT-AP-T1](#)

[ENT-GOS-AP](#)

[ENT-GOS-IMA](#)

[ENT-GOS-IMALINK](#)

[ENT-IMA](#)

[ENT-IMA-PORT](#)

[INIT-REG-AP](#)

[INIT-REG-IMA](#)
[REPT ALM IMA](#)
[REPT EVT AP](#)
[REPT EVT IMALINK](#)
[REPT RST AP](#)
[RMV-IMA](#)
[RST-IMA](#)
[RTRV-ALM-IMA](#)
[RTRV-AP](#)
[RTRV-COND-IMA](#)
[RTRV-GOS-IMA](#)
[RTRV-IMA](#)
[RTRV-PM-IMA](#)

[REPT ALM AP](#)
[REPT ALM IMALINK](#)
[REPT EVT IMA](#)
[REPT RMV AP](#)
[RMV-AP](#)
[RST-AP](#)
[RTRV-ALM-AP](#)
[RTRV-ALM-IMALINK](#)
[RTRV-COND-AP](#)
[RTRV-GOS-AP](#)
[RTRV-GOS-IMALINK](#)
[RTRV-PM-AP](#)
[RTRV-PM-IMALINK](#)

Input Format

```
INIT-REG-
IMALINK:[TID]:<ImaLinkAid>:[CTAG]:::, [<>LOCN>], [<>TMPER>];
```

Input Parameters

ImaLinkAid IMA Link Access Identifier. The address of the IMA Link having the monitored parameter values retrieved. *ImaLinkAid* is the AID [SixPortLuAid](#).

LOCN Location. This parameter indicates whether the near end or far end PM registers should be reset. If parameter is not entered, then the registers for both locations will be initialized. *LOCN* is of type [Location](#).

TMPER Time Period. This parameter indicates which of the threshold periods should be reset. If parameter is not entered, then all periods will be initialized. *TMPER* is of type [PMPPeriod](#).

Input Example

```
INIT-REG-IMALINK:SYS3:N3-4-3-1:654:::,NEND,,15-MIN;
```

Errors

This message generates all of the [Default Errors](#).

INIT-REG-ONT

Name

INIT-REG-ONT: Initialize Register Optical Network Termination

Description**Category:** Performance Monitoring**Security:** Maintenance - by rate

This command initializes the current bins of the performance monitoring (PM) registers identified by the command parameters. The PM register are always reset to zero.

Defined in GR-833. *Not supported in release 5.1*

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
REPT ALM AVO	REPT ALM ONT
REPT ALM RFVID	REPT ALM VCG
REPT ALM VRP	REPT EVT ONT
REPT RMV AVO	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
INIT-REG-ONT:[TID]:<OntAid>:[CTAG]:::,[<LOCN>],,[<TMPPER>];
```

Input Parameters

- OntAid** ONT Access Identifier. The address of the GPON ONT for which the monitored parameter values are requested. *OntAid* is the AID [OntAid](#).
- LOCN** Location. This parameter indicates whether the near end or far end PM registers should be reset. If parameter is not entered, then the registers for both locations will be initialized. *LOCN* is of type [Location](#).
- TMPPER** Time Period. This parameter indicates which of the threshold periods should be reset. If parameter is not entered, then all periods will be initialized. *TMPPER* is of type [PMPPeriod](#).

Input Example

```
INIT-REG-ONT:SYS3:N3-5-2-3-44:654:::,NEND,,15-MIN;
```

Errors

This message generates all of the [Default Errors](#).

INIT-REG-ONTPORTS

Name

INIT-REG-ONTPORTS: Initialize Register ONTPORTS

Description

Category: Performance Monitoring

Security: Maintenance - by rate

This command initializes the current bins of the performance monitoring (PM) registers identified by the command parameters. The command affects registers for all ports on the ONT for which PM is maintained. The PM registers are always reset to zero.

Input Format

```
INIT-REG-ONTPORTS:[TID]:<OntAid>:[CTAG]:::,[<LOCN>],,[<TMPPER>];
```

Input Parameters

- OntAid** The AID of the target ONT. *OntAid* is the AID [OntAid](#).
- LOCN** Location. This parameter indicates whether the near end or far end PM registers should be reset. If parameter is not entered, then the registers for both locations will be initialized. *LOCN* is of type [Location](#).
- TMPER** Time Period. This parameter indicates which of the threshold periods should be reset. If parameter is not entered, then all periods will be initialized. *TMPER* is of type [PMPPeriod](#).

Input Example

```
INIT-REG-ONTPORTS:SYS3:N3-4-3-10-2:654:::,NEND,,15-MIN;
```

Errors

This message generates all of the [Default Errors](#).

INIT-REG-T1

Name

INIT-REG-T1: Initialize Register Digital Signal One

Description

Category: Performance Monitoring

Security: Maintenance - by rate

This command initializes the current bins of the performance monitoring (PM) registers identified by the command parameters. The PM register are always reset to zero.

Defined in GR-833.

Related Messages:

[DLT-AP-T1](#)
[DLT-GOS-T1](#)
[ED-GOS-T1](#)
[ENT-AP-T1](#)
[ENT-GOS-T1](#)
[OPR-LPBK-T1](#)
[REPT EVT T1](#)
[REPT RST T1](#)
[RMV-T1](#)

[DLT-CRS-T1](#)
[DLT-T1](#)
[ED-T1](#)
[ENT-CRS-T1](#)
[ENT-T1](#)
[REPT ALM T1](#)
[REPT RMV T1](#)
[RLS-LPBK-T1](#)
[RST-T1](#)

[RTRV-ALM-T1](#)
[RTRV-CRS-T1](#)
[RTRV-PM-T1](#)

[RTRV-COND-T1](#)
[RTRV-GOS-T1](#)
[RTRV-T1](#)

Input Format

```
INIT-REG-T1:[TID]:<Ds1Aid>:[CTAG]:::,[<LOCN>],,[<TMPPER>];
```

Input Parameters

- Ds1Aid** T1 Port Access Identifier. The address of the T1 port which is to have the PM registers initialized. *Ds1Aid* is the AID [TwelvePortLuAid](#).
- LOCN** Location. This parameter indicates whether the near end or far end PM registers should be reset. If parameter is not entered, then the registers for both locations will be initialized. *LOCN* is of type [Location](#).
- TMPPER** Time Period. This parameter indicates which of the threshold periods should be reset. If parameter is not entered, then all periods will be initialized. *TMPPER* is of type [PMPPeriod](#).

Input Example

```
INIT-REG-T1:SYS3:N3-4-3-1:654::,,NEND,,15-MIN;
```

Errors

This message generates all of the [Default Errors](#).

INIT-REG-T3

Name

INIT-REG-T3: Initialize Register Digital Signal 3

Description

Category: Performance Monitoring **Security:** Maintenance - by rate

This command initializes the current bins of the performance monitoring (PM) registers identified by the command parameters. The PM register are always reset to zero.

Defined in GR-833.

Related Messages:

DLT-GOS-T3	DLT-T3
ED-GOS-T3	ED-T3
ENT-GOS-T3	ENT-T3
OPR-LPBK-T3	REPT ALM T3
REPT EVT T3	REPT RMV T3
REPT RST T3	RLS-LPBK-T3
RMV-T3	RST-T3
RTRV-ALM-T3	RTRV-COND-T3
RTRV-GOS-T3	RTRV-PM-T3
RTRV-T3	

Input Format

```
INIT-REG-T3:[TID]:<Ds3Aid>:[CTAG]::,,[<LOCN>],,[<TMPER>];
```

Input Parameters

Ds3Aid T3 Port Access Identifier. The address of the T3 port which is to have the PM registers initialized. *Ds3Aid* is the AID [T3Aid](#).

LOCN Location. This parameter indicates whether the near end or far end PM registers should be reset. If parameter is not entered, then the registers for both locations will be initialized. *LOCN* is of type [Location](#).

TMPER Time Period. This parameter indicates which of the threshold periods should be reset. If parameter is not entered, then all periods will be initialized. *TMPER* is of type [PMPPeriod](#).

Input Example

```
INIT-REG-T3:SYS3:N3-4-3-1:654::,,NEND,,15-MIN;
```

Errors

This message generates all of the [Default Errors](#).

INIT-REG-VIDCHAN

Name

INIT-REG-VIDCHAN: Initialize Register Video Channel

Description

Category: Performance Monitoring **Security:** Maintenance - by rate

No Comment Defined.

Input Format

```
INIT-REG-
VIDCHAN:[TID]:<IpAid>:[CTAG]:::,,[<LOCN>],,[<TMPER>]:RTRAID=<RTRAID>;
```

Input Parameters

IpAid *IpAid* is the AID [VidchanId](#).

LOCN *LOCN* is of type [Location](#). The default value is "ALL".

TMPER *TMPER* is of type [PMPPeriod](#). The default value is "ALL".

RTRAID *RTRAID* is the AID [SlotLuAid](#).

Input Example

```
INIT-REG-VIDCHAN:SYS3:225.1.1.21:234::,,NEND,,15-MIN:RTRAID=N1-
1-3;
```

Errors

This message generates all of the [Default Errors](#).

INIT-SIP

Name

INIT-SIP: Initialize Session Initiation Protocol

Description

Category: VOIP **Security:** Maintenance - full

This command re-INITializes the SIP configuration data.

Input Format

```
INIT-SIP:[TID]:<Aid>:[CTAG]:::[IG=<IG>];
```

Input Parameters

Aid *Aid* is the AID [SipId1](#) and is listable.

IG *IG* is the AID [IgAid](#).

Input Example

```
INIT-SIP:SYS:N1-1-11-3-55-2:123:::IG=N1-1-IG3;
```

Errors

This message generates all of the [Default Errors](#).

INIT-STAT-DHCPL2RELAY

Name

INIT-STAT-DHCPL2RELAY: Initialize STAT DHCPL2RELAY

Description

Category: IP **Security:** Testing

No Comment Defined.

Input Format

```
INIT-STAT-DHCPL2RELAY:[TID]:<VlanId>:[CTAG];
```

Input Parameters

VlanId *VlanId* is the AID [PacketVlanAid](#).

Input Example

```
INIT-STAT-DHCPL2RELAY:SYS1:N3-2-VB1-VLAN5:45;
```

Errors

This message generates all of the [Default Errors](#).

INIT-STAT-ETH

Name

INIT-STAT-ETH: Initialize STAT Ethernet Port

Description

Category: Ethernet **Security:** Testing

Initialize the Ethernet layer packet statistics collected on the IRC.

Related Messages:

DLT-AGG	DLT-AGG-ACL
DLT-AGG-PORT	DLT-ETH
DLT-ETH-ACL	DLT-GOS-ETH
DLT-LSWITCH	DLT-LSWITCH-PORT
DLT-PROF-ETH	DLT-VLAN
DLT-VLAN-PORT	DLT-VLAN-VBPORT
ED-ETH	ED-GOS-ETH
ED-VLAN	ED-VLAN-PORT
ED-VLAN-VBPORT	ENT-AGG
ENT-AGG-ACL	ENT-AGG-PORT
ENT-ETH	ENT-ETH-ACL
ENT-GOS-ETH	ENT-LSWITCH
ENT-LSWITCH-PORT	ENT-PROF-ETH
ENT-VLAN	ENT-VLAN-PORT
ENT-VLAN-VBPORT	INIT-LSWITCH
REPT ALM ETH	REPT EVT ETH
REPT RMV ETH	REPT RST ETH
RMV-ETH	RST-ETH
RTRV-AGG	RTRV-AGG-ACL
RTRV-AGG-PORT	RTRV-ALM-ETH
RTRV-COND-ETH	RTRV-ETH
RTRV-ETH-ACL	RTRV-GOS-ETH
RTRV-LSWITCH	RTRV-LSWITCH-PORT
RTRV-PM-ETH	RTRV-PROF-ETH

[RTRV-STAT-ETH](#)
[RTRV-VLAN-PORT](#)

[RTRV-VLAN](#)
[RTRV-VLAN-VBPORT](#)

Input Format

```
INIT-STAT-ETH:[TID]:<EthAid>:[CTAG];
```

Input Parameters

EthAid Pseudoport Access Identifier on an IRC. *EthAid* is the AID [EthId5](#) and is listable and rangeable.

Input Example

```
INIT-STAT-ETH:SYS1:N1-1-3-PP1:4;
```

Errors

This message generates all of the [Default Errors](#).

INIT-STAT-IP

Name

INIT-STAT-IP: Initialize STAT IP

Description

Category: IP **Security:** Testing

Initialize the IP layer packet statistics collected on the IRC.

Input Format

```
INIT-STAT-IP:[TID]:<PpRngAid>:[CTAG];
```

Input Parameters

PpRngAid Pseudoport Access Identifier on an IRC or Ge-2p. *PpRngAid* is the AID [Pp1RngAid](#) and is listable and rangeable.

Input Example

INIT-STAT-IP:SYS1:N1-1-3-PP1:4;

Errors

This message generates all of the [Default Errors](#).

INIT-STAT-PPPOA

Name

INIT-STAT-PPPOA: Initialize STAT PPPOA

Description

Category: PPPOE **Security:** Testing

This command is used to initialize statistics for Point to Point Protocol Over ATM

Input Format

INIT-STAT-PPPOA: [TID] : <VbAid> : [CTAG];

Input Parameters

VbAid *VbAid* is the AID [VbAid](#) and is listable.

Input Example

INIT-STAT-PPPOA:SYS1:N1-1-3-4:4;

Errors

This message generates all of the [Default Errors](#).

INIT-STAT-PPPOE

Name

INIT-STAT-PPPOE: Initialize STAT PPPOE

Description

Category: PPPOE **Security:** Testing

This command is used to initialize the protocol statistics for the GE2p card as a whole, or for a particular port on the card. The ports include all of the physical ports and the pseudo-port.

Input Format

```
INIT-STAT-PPPOE:[TID]:<VbAid>:[CTAG];
```

Input Parameters

VbAid This parameter is used to specify the target of the command. The scope of other Input and Output commands are limited to a Ge-2p card or a Ge-2p port. *VbAid* is the AID [VbAid](#) and is listable.

Input Example

```
INIT-STAT-PPPOE:SYS3:N3-2-8:230;
```

Errors

This message generates all of the [Default Errors](#).

INIT-STAT-PPPOEAC

Name

INIT-STAT-PPPOEAC: Initialize STAT PPPOEAC

Description

Category: PPPOE **Security:** Testing

This command initializes statistics for each Access Concentrator

Input Format

```
INIT-STAT-PPPOEAC:[TID]:<MACAID>:[CTAG]:::VBAID=<VBAID>;
```

Input Parameters

MACAID This is the Ethernet Address of the AC as learned from the PPPoE Discovery packet.
MACAID is the AID [MacRngAid](#) and is listable.

VBAID *VBAID* is the AID [VbAid](#).

Input Example

```
INIT-STAT-PPPOEAC:SYS3:01-23-45-67-89-AB:229:::VBAID=N3-2-VB4;;
```

Errors

This message generates all of the [Default Errors](#).

INIT-STAT-UDP

Name

INIT-STAT-UDP: Initialize STAT UDP

Description

Category: IP **Security:** Testing

Initialize the UDP layer packet statistics collected on an IRC Pseudoport or Ethernet Port.

Input Format

```
INIT-STAT-UDP:[TID]:<PpRngAid>:[CTAG];
```

Input Parameters

PpRngAid Pseudoport Access Identifier on an IRC or Ge-2p. *PpRngAid* is the AID [Pp1RngAid](#) and is listable and rangeable.

Input Example

```
INIT-STAT-UDP:SYS1:N1-1-3-PP1:4;;
```

Errors

This message generates all of the [Default Errors](#).

INIT-SYS

Name

INIT-SYS: Initialize System

Description

Category: System **Security:** System Administration

This command allows either part or all of the C7 shelf to be initialized. Each individual plug in can be initialized or all plug ins on the shelf can be initialized.

In addition, when the plug in or shelf goes through initialization, the level of initialization will depend on the phase selected by the user.

This various levels of initialization are:

- WARMRESET - Resets the processor without re-initializing the hardware. When the equipment does not support this ability, this phase will be disallowed. Also, when a RAP card is warmreset only the transport section of the card will be reset.
- COLDRESET - Resets the hardware and causes the processor to unconditionally execute the same routines as if the card was plugged in or the shelf was powering up. It uses the existing database when initializing.
- COLDRESETOFDB - This completely deletes all provisioned data from the working database and resets the database to contain manufacturing default values. All hardware on the shelf will be restarted. Only a shelf AID specifying -ALL for the slots is acceptable for this level of initialization. The backup database is not modified.

Note the nature of this command does not allow a normal response to be issued after a system restart; hence, the normal response will be sent immediately before the reset of the processor.

This command should only be executed by the Network Administrator as service will be disturbed.

Defined in GR-833.

Related Messages:

[ALW-STBY-UPGRD](#)

[DLT-ALM-SHELF](#)

DLT-NODE	ED-DAT
ED-NODE	ED-SHELF
ED-SYS	ED-SYS-SECU
ENT-NODE	ENT-SHELF
INH-STBY-UPGRD	OPR-BAR
REPT ALM SHELF	REPT EVT MEM
REPT EVT SHELF	RTRV-ALM-SHELF
RTRV-BAR	RTRV-COND-SHELF
RTRV-HDR	RTRV-NETYPE
RTRV-NODE	RTRV-SHELF
RTRV-SYS	RTRV-SYS-SECU

Input Format

```
INIT-SYS:[TID]:<EqptAid>:[CTAG]::<PH>:[ INCL=<INCL>];
```

Input Parameters

EqptAid Equipment Access Identifier. The address of the Equipment entity being initialized. If a list of AIDs is specified, the command will be executed on the equipment in the order that they are listed. Listing the active RAP or the AMP that is executing the command before other equipment will abort the command before the other equipment is initialized. *EqptAid* is the AID [SystemId](#) and is listable.

PH *PH* is of type [Phase](#).

INCL INCLusive. This parameter provides a way for the user to request a forced initialization of each plug in on a shelf. This parameter is required when the command is applied to a card that is in NBK state. *INCL* is of type [BoolYN](#).

Input Example

```
INIT-SYS:SYS6:N6-3-3:1234::COLDRESET:INCL=Y;
```

Errors

This message generates all of the [Default Errors](#).

INJ-LPBK-VC

Name

INJ-LPBK-VC: Inject Loopback Virtual Circuit

Description

Category: Virtual Facility **Security:** Maintenance - by rate

This command will inject a loopback "ping" into the Virtual Circuit. It waits up to 5 seconds for a response.

There are four types of loopbacks supported. These are described below.

The first is "immediate" (IMMED) which sends a ping to the end of the segment and expects only one response from the end of the segment. If the AID provided in the command is in the middle of the segment the ping will be sent to the egress segment end. The CPID parameter is ignored when IMMED is specified.

The second is "single" (SINGLE) which send a ping to the Connect Point (CPID) specified in the command. The CPID is a required parameter. The CPID specified must be within the segment path.

The third is "multiple" (MULTI) which send a ping along the path to the segment end point and at each connect point along the way is loopbacked to the originating connection point. If the AID provided in the command is in the middle of the segment the loopback will be sent to the egress segment end and will be loopbacked at each connect point along the way. The CPID parameter is ignored when MULTI is specified.

The fourth is "to-end" (TOEND) which sends a ping using an end-to-end cell along the path to the end point of the virtual circuit. The ping will be sent in the egress direction. The CPID parameter is ignored when TOEND is specified.

Defined by Calix.

Related Messages:

[ACT-PROTN-VC](#)

[DLT-CRS-VC](#)

[DLT-PP](#)

[ED-CRS-VC](#)

[ED-PROF-TRF](#)

[ENT-CRS-VP](#)

[ENT-PROF-TRF](#)

[INIT-CSTAT-VP](#)

[MV-CRS-VC](#)

[OPR-CC-VC](#)

[REPT ALM PP](#)

[REPT EVT VC](#)

[REPT RMV PP](#)

[RLS-CC-VC](#)

[RMV-PP](#)

[RTRV-ALM-PP](#)

[RTRV-CRS-VC](#)

[ACT-PROTN-VP](#)

[DLT-CRS-VP](#)

[DLT-PROF-TRF](#)

[ED-CRS-VP](#)

[ENT-CRS-VC](#)

[ENT-PP](#)

[INIT-CSTAT-VC](#)

[INJ-LPBK-VP](#)

[MV-CRS-VP](#)

[OPR-CC-VP](#)

[REPT EVT PP](#)

[REPT EVT VP](#)

[REPT RST PP](#)

[RLS-CC-VP](#)

[RST-PP](#)

[RTRV-COND-PP](#)

[RTRV-CRS-VP](#)

[RTRV-CSTAT-VC](#)
[RTRV-PP](#)
[RTRV-VTI](#)

[RTRV-CSTAT-VP](#)
[RTRV-PROF-TRF](#)

Input Format

```
INJ-LPBK-VC:[TID]:<VcAid>:[CTAG]::<LPBKTYPE>,[<CPID>],[<DIRN>];
```

Input Parameters

- VcAid** Virtual Circuit (VC) Access Identifier. The address of the virtual circuit having a loopback ping inserted. *VcAid* is the AID [VcId](#). *VcAid* must not be null.
- LPBKTYPE** Loopback Type. This parameter indicates the type of loopback being requested. *LPBKTYPE* is of type [LpbkVpVc](#). *LPBKTYPE* must not be null.
- CPID** *CPID* is the AID [ShelfAid](#). A null value is equivalent to "ALL".
- DIRN** *DIRN* is of type [Direction](#). A null value defaults to "TRMT".

Input Example

```
INJ-LPBK-VC:SYS3:N55-3-4-1-VP567-VC4783:41::SINGLE,N4-1,TRMT;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<VcAid>:[SHELFID=<SHELFID>]"
;
```

Output Parameters

- VcAid** Virtual Circuit (VC) Access Identifier. The address of the virtual circuit having a loopback ping inserted. *VcAid* is the AID [VcId](#).
- SHELFID** Shelf Access Identifier. This identifies the shelf or shelves which were actually traversed by the loopback cells. This will always be one shelf in the case of a IMMED, SINGLE, or TOEND loopback. In the case of a MULTI loopback, each shelf in the segment should be listed. *SHELFID* is the AID [ShelfAid](#) and is listable. *SHELFID* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N55-3-4-1-VP567-VC4783::SHELFID=N4-1"
;
```

Errors

This message generates all of the [Default Errors](#).

INJ-LPBK-VP

Name

INJ-LPBK-VP: Inject Loopback Virtual Path

Description

Category: Virtual Facility **Security:** Maintenance - by rate

This command will inject a loopback "ping" into the Virtual Path. It waits up to 5 seconds for a response.

There are four types of loopbacks supported. These are described below.

The first is "immediate" (IMMED) which sends a ping to the end of the segment and expects only one response from the end of the segment. If the AID provided in the command is in the middle of the segment the ping will be sent to the egress segment end. The CPID parameter is ignored when IMMED is specified.

The second is "single" (SINGLE) which send a ping to the Connect Point (CPID) specified in the command. The CPID is a required parameter. The CPID specified must be within the segment path.

The third is "multiple" (MULTI) which send a ping along the path to the segment end point and at each connect point along the way is loopbacked to the originating connection point. If the AID provided in the command is in the middle of the segment the loopback will be sent to the egress segment end and will be loopbacked at each connect point along the way. The CPID parameter is ignored when MULTI is specified.

The fourth is "to-end" (TOEND) which sends a ping using an end-to-end cell along the path to the end point of the virtual path. The ping will be sent in the egress direction. The CPID parameter is ignored when TOEND is specified.

Defined by Calix.

Related Messages:

[ACT-PROTN-VC](#)
[DLT-CRS-VC](#)
[DLT-PP](#)
[ED-CRS-VC](#)
[ED-PROF-TRF](#)
[ENT-CRS-VP](#)
[ENT-PROF-TRF](#)
[INIT-CSTAT-VC](#)
[INIT-CSTAT-VP](#)

[ACT-PROTN-VP](#)
[DLT-CRS-VP](#)
[DLT-PROF-TRF](#)
[ED-CRS-VP](#)
[ENT-CRS-VC](#)
[ENT-PP](#)
[INIT-CSTAT-VC](#)
[INJ-LPBK-VC](#)

[MV-CRS-VC](#)
[OPR-CC-VC](#)
[REPT ALM PP](#)
[REPT EVT VC](#)
[REPT RMV PP](#)
[RLS-CC-VC](#)
[RMV-PP](#)
[RTRV-ALM-PP](#)
[RTRV-CRS-VC](#)
[RTRV-CSTAT-VC](#)
[RTRV-PP](#)
[RTRV-VTI](#)

[MV-CRS-VP](#)
[OPR-CC-VP](#)
[REPT EVT PP](#)
[REPT EVT VP](#)
[REPT RST PP](#)
[RLS-CC-VP](#)
[RST-PP](#)
[RTRV-COND-PP](#)
[RTRV-CRS-VP](#)
[RTRV-CSTAT-VP](#)
[RTRV-PROF-TRF](#)

Input Format

```
INJ-LPBK-VP:[TID]:<VpAid>:[CTAG]:::<LPBKTYPE>,[<CPID>],[<DIRN>];
```

Input Parameters

- VpAid** Virtual Path (VP) Access Identifier. The address of the virtual path having a loopback ping inserted. *VpAid* is the AID [VpAid](#). *VpAid* must not be null.
- LPBKTYPE** Loopback Type. This parameter indicates the type of loopback being requested. *LPBKTYPE* is of type [LpbkVpVc](#). *LPBKTYPE* must not be null.
- CPID** *CPID* is the AID [ShelfAid](#). A null value is equivalent to "ALL".
- DIRN** *DIRN* is of type [Direction](#). A null value defaults to "TRMT".

Input Example

```
INJ-LPBK-VP:SYS3:N55-3-4-1-VP567:4321::SINGLE,N4-1,TRMT;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
  "<VpAid>::[SHELFID=<SHELFID>]"
;
```

Output Parameters

- VpAid** Virtual Path (VP) Access Identifier. The address of the virtual path having a loopback ping inserted. *VpAid* is the AID [VpAid](#).
- SHELFID** Shelf Access Identifier. This identifies the shelf or shelves which were actually traversed by the loopback cells. This will always be one shelf in the case of a IMMED, SINGLE, or TOEND loopback. In the case of a MULTI loopback, each shelf in the segment should be listed. *SHELFID* is the AID [ShelfAid](#) and is listable. *SHELFID* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N55-3-4-1-VP567::SHELFALD=N4-1"
;
```

Errors

This message generates all of the [Default Errors](#).

MV-CRS-VC

Name

MV-CRS-VC: Move Cross Connect Virtual Circuit

Description

Category: Cross Connect **Security:** N/A

This command can be used to move one STS-based cross connection endpoint from one VC to another under the same VP. It can be used only on a single cross-connect hop, for "internal" endpoints (i.e. the OC port is provisioned EXT=N).

This ability is provided to allow users to delete a shelf without having to delete, enter and reactivate protection on each and every cross connection. *The command is intended for maintenance purposes only, and requires "restricted access" (ALW-CMD-RESTR)*

Related Messages:

[ACT-PROTN-VC](#)
[DLT-CRS-VC](#)
[DLT-PP](#)
[ED-CRS-VC](#)
[ED-PROF-TRF](#)
[ENT-CRS-VP](#)
[ENT-PROF-TRF](#)
[INIT-CSTAT-VP](#)
[INJ-LPBK-VP](#)
[OPR-CC-VC](#)
[REPT ALM PP](#)
[REPT EVT VC](#)

[ACT-PROTN-VP](#)
[DLT-CRS-VP](#)
[DLT-PROF-TRF](#)
[ED-CRS-VP](#)
[ENT-CRS-VC](#)
[ENT-PP](#)
[INIT-CSTAT-VC](#)
[INJ-LPBK-VC](#)
[MV-CRS-VP](#)
[OPR-CC-VP](#)
[REPT EVT PP](#)
[REPT EVT VP](#)

[REPT RMV PP](#)
[RLS-CC-VC](#)
[RMV-PP](#)
[RTRV-ALM-PP](#)
[RTRV-CRS-VC](#)
[RTRV-CSTAT-VC](#)
[RTRV-PP](#)
[RTRV-VTI](#)

[REPT RST PP](#)
[RLS-CC-VP](#)
[RST-PP](#)
[RTRV-COND-PP](#)
[RTRV-CRS-VP](#)
[RTRV-CSTAT-VP](#)
[RTRV-PROF-TRF](#)

Input Format

```
MV-CRS-
VC:[TID]:<SrcVcAid>,<DstVcAid>:[CTAG]:::FROM=<FROM>,TO=<TO>;
```

Input Parameters

SrcVcAid Source VC Access Identifier. This is the source endpoint of an existing cross-connect.
SrcVcAid is the AID [VcId4](#).

DstVcAid Destination VC Access Identifier. Source VC Access Identifier. This is the destination endpoint of an existing cross-connect. *DstVcAid* is the AID [VcId7](#).

FROM The endpoint being modified. This must match either the source or destination endpoint.
FROM is the AID [VcId9](#).

TO The new AID for the "FROM" endpoint. Only the VC value is allowed to change. *TO* is the AID [VcId9](#).

Input Example

```
MV-CRS-VC:SYS:N4-1-1-1-1-VP4094-VC100,N4-1-2-1-1-VP4094-
VC110:76:::
FROM=N4-1-1-1-1-VP4094-VC100,TO=N4-1-1-1-1-VP4094-VC110;
```

Errors

This message generates all of the [Default Errors](#).

MV-CRS-VP

Name

MV-CRS-VP: Move Cross Connect Virtual Path

Description

Category: Cross Connect

Security: N/A

This command can be used to move one STS-based cross connection endpoint from one VP to another under the same STS. It can be used only on a single cross-connect hop, for "internal" endpoints (i.e. the OC port is provisioned EXT=N).

This ability is provided to allow users to delete a shelf without having to delete, enter and reactivate protection on each and every cross connection. *The command is intended for maintenance purposes only, and requires "restricted access" (ALW-CMD-RESTR)*

Related Messages:

[ACT-PROTN-VC](#)
[DLT-CRS-VC](#)
[DLT-PP](#)
[ED-CRS-VC](#)
[ED-PROF-TRF](#)
[ENT-CRS-VP](#)
[ENT-PROF-TRF](#)
[INIT-CSTAT-VP](#)
[INJ-LPBK-VP](#)
[OPR-CC-VC](#)
[REPT ALM PP](#)
[REPT EVT VC](#)
[REPT RMV PP](#)
[RLS-CC-VC](#)
[RMV-PP](#)
[RTRV-ALM-PP](#)
[RTRV-CRS-VC](#)
[RTRV-CSTAT-VC](#)
[RTRV-PP](#)
[RTRV-VTI](#)

[ACT-PROTN-VP](#)
[DLT-CRS-VP](#)
[DLT-PROF-TRF](#)
[ED-CRS-VP](#)
[ENT-CRS-VC](#)
[ENT-PP](#)
[INIT-CSTAT-VC](#)
[INJ-LPBK-VC](#)
[MV-CRS-VC](#)
[OPR-CC-VP](#)
[REPT EVT PP](#)
[REPT EVT VP](#)
[REPT RST PP](#)
[RLS-CC-VP](#)
[RST-PP](#)
[RTRV-COND-PP](#)
[RTRV-CRS-VP](#)
[RTRV-CSTAT-VP](#)
[RTRV-PROF-TRF](#)

Input Format

```
MV-CRS-
VP:[TID]:<SrcVpAid>,<DstVpAid>:[CTAG]:::FROM=<FROM>,TO=<TO>;
```

Input Parameters

SrcVpAid Source VC Access Identifier. This is the source endpoint of an existing cross-connect. *SrcVpAid* is the AID [VpAid](#).

DstVpAid Destination VP Access Identifier. This is the destination endpoint of an existing cross-connect. *DstVpAid* is the AID [VpAid](#).

- FROM** The endpoint being modified. This must match either the source or destination endpoint. *FROM* is the AID [VpAid](#).
- TO** The new AID for the "FROM" endpoint. Only the VP value is allowed to change. *TO* is the AID [VpAid](#).

Input Example

```
MV-CRS-VP:SYS2:N4-5-5-1-VP49,N4-5-3-1-VP96:76:::FROM=N4-5-3-1-
VP96,
TO=N4-5-3-1-VP49;
```

Errors

This message generates all of the [Default Errors](#).

OPR-ACO

Name

OPR-ACO: Operate Alarm Cutoff

Description

Category: Fault **Security:** Maintenance - full

Operates the alarm cutoff to instruct an NE to cut off the office audible alarm indications without changing the local alarm indications.

Instructs a C7 node to cut off the office audible alarm indications without changing the local alarm indications. This command will not have any effect on future alarms at the C7 node. The C7 will be able to transmit its current alarm or status condition if requested by a management interface.

This command will not affect the audible alarm indications of future alarms which might be raised.

Defined in GR-833.

Related Messages:

[ALW-MSG-ALL](#)
[RTRV-ACO](#)
[RTRV-COND-ACO](#)

[INH-MSG-ALL](#)
[RTRV-ALM-ALL](#)
[SET-ACO](#)

Input Format

OPR-ACO : [TID] : <NodeAid> : [CTAG] ;
--

Input Parameters

NodeAid Alarm Cutoff Access Identifier. The address of the alarm cutoff being operated. *NodeAid* is the AID [NodeAid](#).

Input Example

OPR-ACO : SYS4 : N4 : CTAG ;

Errors

This message generates all of the [Default Errors](#).

OPR-BAR

Name

OPR-BAR: Operate BAR

Description

Category: System **Security:** Maintenance - by rate

Operate Backup-and-Restore.

This command will allow the user to perform various Backup-And-Restore activities.

The following table lists the applicable BarAid types, based on the BAR operation being performed. If a Shelf AID is specified, the operation will apply to all cards with a database on the shelf (CSA, CSB, IRC). If a Slot AID is specified, the operation will apply only to the database on the slot specified.

Operation	Shelf AID	Slot AID
Snapshot	X	N/A
Extract	N/A	X
Load	N/A	X
Switch	X	X
Cancel	Ignored	Ignored

Related Messages:

ALW-STBY-UPGRD	DLT-ALM-SHELF
DLT-NODE	ED-DAT
ED-NODE	ED-SHELF
ED-SYS	ED-SYS-SECU
ENT-NODE	ENT-SHELF
INH-STBY-UPGRD	INIT-SYS
REPT ALM SHELF	REPT EVT MEM
REPT EVT SHELF	RTRV-ALM-SHELF
RTRV-BAR	RTRV-COND-SHELF
RTRV-HDR	RTRV-NETYPE
RTRV-NODE	RTRV-SHELF
RTRV-SYS	RTRV-SYS-SECU

Input Format

```
OPR-
BAR:[TID]:<BarAid>:[CTAG]::<BARACT>:[ [BARSESS=<BARSESS>,][FTPIP=<FTPIP>,[[FTPUID=<FTPUID>,[FTPPID=<FTPPID>,[FTPFILE=<FTPFILE>]];
```

Input Parameters

- BarAid** Access ID of the shelf or slot upon which the BAR operation is to be performed. *BarAid* is the AID [ShelfOrSlotAid](#). *BarAid* must not be null.
- BARACT** BAR Activity Type. *BARACT* is of type [BaRActivity](#). *BARACT* must not be null.
- BARSESS** BAR Session ID. This parameter is only used when *BARACT* is CANCEL and it indicates the BAR session to be cancelled. *BARSESS* is of type [BarSession](#). A null value defaults to "no session".
- FTPIP** IP address of the FTP server to which the backup is to be sent/received. *FTPIP* is the AID [IpAid](#). A null value defaults to "required for Extract/Load".
- FTPUID** User Name for login to the FTP server. This field is limited to 31 characters. *FTPUID* is a String. A null value defaults to "required for Extract/Load".
- FTPPID** Password for login to the FTP server. This field is limited to 31 characters. *FTPPID* is a String. A null value defaults to "required for Extract/Load".
- FTPFILE** Filename to use on the FTP server, possibly including a directory structure prefix. This field is limited to 79 characters. *FTPFILE* is a String. A null value defaults to "required for Extract/Load".

Input Example

```
OPR-BAR:SYS2:N1-1-CSA:123::EXTRACT:BARSESS=0,FTPIP=192.165.1.1,
FTPUID="USERNAME",FTPPID="PASSWORD",FTPFILE="FILENAME";
```

Output Format

```

SID DATE TIME
M CTAG COMPLD
"<BarAid>::[ BARSESS=<BARSESS> ] "
;

```

Output Parameters

BarAid Access ID of the shelf or slot upon which the BAR operation is to be performed. *BarAid* is the AID [ShelfOrSlotAid](#).

BARSESS BAR Session ID. This is the Session ID that was assigned to the BAR activity by the C7. *BARSESS* is of type [BarSession](#). *BARSESS* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-1-CSA::BARSESS=5"
;

```

Errors

This message generates all of the [Default Errors](#).

OPR-CC-VC

Name

OPR-CC-VC: Operate CC VC

Description

Category: Virtual Facility **Security:** Maintenance - by rate

This command initiates the sending and/or monitoring for segment continuity check cells on the specified virtual circuit segment. The cells are sent at a rate of 1 per second until a RLS-CC-VC command is issued.

This command will automatically switch itself off after 20 minutes.

Defined by Calix.

Related Messages:

[ACT-PROTN-VC](#)

[ACT-PROTN-VP](#)

[DLT-CRS-VC](#)
[DLT-PP](#)
[ED-CRS-VC](#)
[ED-PROF-TRF](#)
[ENT-CRS-VP](#)
[ENT-PROF-TRF](#)
[INIT-CSTAT-VP](#)
[INJ-LPBK-VP](#)
[MV-CRS-VC](#)
[REPT ALM PP](#)
[REPT EVT VC](#)
[REPT RMV PP](#)
[RLS-CC-VC](#)
[RMV-PP](#)
[RTRV-ALM-PP](#)
[RTRV-CRS-VC](#)
[RTRV-CSTAT-VC](#)
[RTRV-PP](#)
[RTRV-VTI](#)

[DLT-CRS-VP](#)
[DLT-PROF-TRF](#)
[ED-CRS-VP](#)
[ENT-CRS-VC](#)
[ENT-PP](#)
[INIT-CSTAT-VC](#)
[INJ-LPBK-VC](#)
[MV-CRS-VC](#)
[OPR-CC-VP](#)
[REPT EVT PP](#)
[REPT EVT VP](#)
[REPT RST PP](#)
[RLS-CC-VP](#)
[RST-PP](#)
[RTRV-COND-PP](#)
[RTRV-CRS-VP](#)
[RTRV-CSTAT-VP](#)
[RTRV-PROF-TRF](#)

Input Format

```
OPR-CC-VC:[TID]:<VcAid>:[CTAG]::<CCTYPE>, <CCMODE>;
```

Input Parameters

VcAid Virtual Circuit Access Identifier. The address of the VC for which the continuity will be operated. *VcAid* is the AID [VcId](#).

CCTYPE Continuity Check Type This parameter specifies whether the continuity check circuit looks on the INTernal SEGment toward the linecard from the port, on the EXTERNALSEGment from the port toward the facility, or END-TO-END. *CCTYPE* is of type [CcType](#).

CCMODE Continuity Check Mode. This parameter indicates whether the continuity check circuit is to transmit cells, monitor for cells, or both. *CCMODE* is of type [CcMode](#) and can be one of the following values: "TXRX".

Input Example

```
OPR-CC-VC:SYS1:N1-1-3-1-1-VP345-VC7782:3::END-TO-END,TXRX;
```

Errors

This message generates all of the [Default Errors](#).

OPR-CC-VP

Name

OPR-CC-VP: Operate CC VP

Description

Category: Virtual Facility **Security:** Maintenance - by rate

This command initiates the sending and/or monitoring for segment continuity check cells on the specified virtual path segment. The cells are sent at a rate of 1 per second until a RLS-CC-VP command is issued.

This command will automatically switch itself off after 20 minutes.

Defined by Calix.

Related Messages:

ACT-PROTN-VC	ACT-PROTN-VP
DLT-CRS-VC	DLT-CRS-VP
DLT-PP	DLT-PROF-TRF
ED-CRS-VC	ED-CRS-VP
ED-PROF-TRF	ENT-CRS-VC
ENT-CRS-VP	ENT-PP
ENT-PROF-TRF	INIT-CSTAT-VC
INIT-CSTAT-VP	INJ-LPBK-VC
INJ-LPBK-VP	MV-CRS-VC
MV-CRS-VP	OPR-CC-VC
REPT ALM PP	REPT EVT PP
REPT EVT VC	REPT EVT VP
REPT RMV PP	REPT RST PP
RLS-CC-VC	RLS-CC-VP
RMV-PP	RST-PP
RTRV-ALM-PP	RTRV-COND-PP
RTRV-CRS-VC	RTRV-CRS-VP
RTRV-CSTAT-VC	RTRV-CSTAT-VP
RTRV-PP	RTRV-PROF-TRF
RTRV-VTI	

Input Format

OPR-CC-VP : [TID] : <VpAid> : [CTAG] :: <CCTYPE> , <CCMODE> ;

Input Parameters

- VpAid** Virtual Path Access Identifier. The address of the VP for which the continuity will be performed. *VpAid* is the AID [VpAid](#).
- CCTYPE** Continuity Check Type This parameter specifies whether the continuity check circuit looks on the INTernal SEGment toward the linecard from the port, on the EXternalSEGment from the port toward the facility, or END-TO-END. An INVALID parameter releases any continuity check that exists on the VP. *CCTYPE* is of type [CcType](#).
- CCMODE** Continuity Check Mode. This parameter indicates whether the continuity check circuit is to transmit cells, monitor for cells, or both. *CCMODE* is of type [CcMode](#).

Input Example

```
OPR-CC-VP:SYS1:N1-1-3-1-1-VP345:3::END-TO-END,TX;
```

Errors

This message generates all of the [Default Errors](#).

OPR-DEBUG

Name

OPR-DEBUG: Operate DEBUG

Description

Category: System **Security:** Maintenance - by rate

This command is provided for user c7support only. It provides a TL1 interface for running debug commands on line units.

Input Format

```
OPR-DEBUG:[TID]:<EqptAid>:[CTAG]:::[CPU=<CPU>],CMD=<CMD>;
```

Input Parameters

- EqptAid** The Slot number is used for the AID. *EqptAid* is the AID [DebugSlotAid](#). *EqptAid* must not be null.
- CPU** CPU to which the debug command is targeted. *CPU* is of type [CpuType](#). A null value defaults

to "PPC".

CMD The command to run. *CMD* is a String. *CMD* must not be null.

Input Example

```
OPR-DEBUG:SYS:N2-1-CSA:123:::CPU=PPC,CMD=/TGT/EFS/LS /FTL0;
```

Output Format

```
    SID DATE TIME
M    CTAG COMPLD
    "<OUTPUT> "
;
```

Output Parameters

OUTPUT Command output, if any. *OUTPUT* is a String.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "(DEBUG COMMAND OUTPUT)"
;
```

Errors

This message generates all of the [Default Errors](#).

OPR-EXT-CONT

Name

OPR-EXT-CONT: Operate External Control

Description

Category: Environment **Security:** Maintenance - full

This operates an external device through a relay. The control may be operated momentarily or continuously. If operated continuously, it can be released using RLS-EXT-CONT (Release External Control). Whether the operate command is to close or open the control is specified through the Polarity parameter of the SET-ATTR-ENV command. The C7 will report the operation of a control using REPT

EVT CONT (Report Event External Control).

Defined in GR-833.

Related Messages:

[REPT ALM ENV](#)
[RLS-EXT-CONT](#)
[RTRV-ATTR-CONT](#)
[RTRV-COND-ENV](#)
[SET-ATTR-CONT](#)

[REPT EVT CONT](#)
[RTRV-ALM-ENV](#)
[RTRV-ATTR-ENV](#)
[RTRV-EXT-CONT](#)
[SET-ATTR-ENV](#)

Input Format

```
OPR-EXT-CONT:[TID]:<ExtContAid>:[CTAG]:::<DUR>;
```

Input Parameters

ExtContAid External Control Access Identifier. The address of the external control within the node.
ExtContAid is the AID [ExtControlAid](#).

DUR Duration. This parameter indicate the duration that the external control should be operated.
DUR is of type [Duration](#). The default value is "MNTRY".

Input Example

```
OPR-EXT-CONT:SYS3:N3-EXT2:CTAG::MNTRY;
```

Errors

This message generates all of the [Default Errors](#).

OPR-LPBK-<OCN>

Name

OPR-LPBK-<OCN>: Operate Loopback (OC12, OC3, OC48)

Description

Category: OCn Facility **Security:** Maintenance - by rate

Instructs a C7 to operate a loop back on a specified OCn line.

The OCn line must be placed in an out of service condition before the loop back can be operated.

It is assumed that the specified entity is in a state that allows a loop back to occur. Any C7 that has a loop back in effect will include the appropriate condition type information in response to a RTRV-COND-OCn (Retrieve Condition OCn) message.

Defined in GR-833.

Related Messages:

[DLT-<OCN>](#)

[DLT-GOS-<OCN>](#)

[ED-FFP-<OCN>](#)

[ENT-<OCN>](#)

[ENT-GOS-<OCN>](#)

[OPR-PROTNSW-<OCN>](#)

[REPT EVT <OCN>](#)

[REPT RST <OCN>](#)

[RLS-PROTNSW-<OCN>](#)

[RST-<OCN>](#)

[RTRV-ALM-<OCN>](#)

[RTRV-FFP-<OCN>](#)

[RTRV-PM-<OCN>](#)

[DLT-FFP-<OCN>](#)

[ED-<OCN>](#)

[ED-GOS-<OCN>](#)

[ENT-FFP-<OCN>](#)

[INIT-REG-<OCN>](#)

[REPT ALM <OCN>](#)

[REPT RMV <OCN>](#)

[RLS-LPBK-<OCN>](#)

[RMV-<OCN>](#)

[RTRV-<OCN>](#)

[RTRV-COND-<OCN>](#)

[RTRV-GOS-<OCN>](#)

Input Format

```
OPR-LPBK-<OCN>:[TID]:<OcNAid>:[CTAG]:::,,,  
<LPBKTYPE>;
```

Input Parameters

OcNAid OCn Access Identifier. The address of the OCn line which the loop back will be applied. *OcNAid* is the AID [FourPortLuAndRapAid](#).

LPBKTYPE Loop Back Type. This parameter specifies the type of loop back. *LPBKTYPE* is of type [LpbkFacOrTerm](#).

Input Example

```
OPR-LPBK-OC12:SYS3:N55-3-4-2:4321::,,TERMINAL;
```

Errors

This message generates all of the [Default Errors](#).

OPR-LPBK-EC1

Name

OPR-LPBK-EC1: Operate Loopback Electrical Carrier

Description

Category: EC1 Facility **Security:** Maintenance - by rate

Instructs a C7 to operate a loop back on a specified EC1 line.

The EC1 line must be placed in an out of service condition before the loop back can be operated.

It is assumed that the specified entity is in a state that allows a loop back to occur. Any C7 that has a loop back in effect will include the appropriate condition type information in response to a RTRV-COND-EC1 (Retrieve Condition EC1) message.

Related Messages:

[DLT-EC1](#)
[ED-EC1](#)
[ENT-EC1](#)
[INIT-REG-EC1](#)
[REPT EVT EC1](#)
[REPT RST EC1](#)
[RMV-EC1](#)
[RTRV-ALM-EC1](#)
[RTRV-EC1](#)
[RTRV-PM-EC1](#)

[DLT-GOS-EC1](#)
[ED-GOS-EC1](#)
[ENT-GOS-EC1](#)
[REPT ALM EC1](#)
[REPT RMV EC1](#)
[RLS-LPBK-EC1](#)
[RST-EC1](#)
[RTRV-COND-EC1](#)
[RTRV-GOS-EC1](#)

Input Format

```
OPR-LPBK-EC1:[TID]:<Ec1Aid>:[CTAG]::,,,<LPBKTYPE>;
```

Input Parameters

Ec1Aid Access Identifier. The address of the EC1 line which the loop back will be applied.
Ec1Aid is the AID [TwelvePortLuAid](#).

LPBKTYPE Loop Back Type. This parameter specifies the type of loop back. *LPBKTYPE* is of type [LpbkFacTermOrPayload](#).

Input Example

```
OPR-LPBK-EC1:SYS3:N55-3-4-2:4321:,,TERMINAL;
```

Errors

This message generates all of the [Default Errors](#).

OPR-LPBK-HDSL

Name

OPR-LPBK-HDSL: Operate Loopback High bit rate Digital Subscriber Line

Description

Category: HDSL Facility **Security:** Maintenance - by rate

Instructs a C7 to operate a loop back on a specified HDSL port.

The HDSL port must be placed in an out of service condition before the loop back can be operated.

It is assumed that the specified entity is in a state that allows a loop back to occur. Any C7 that has a loop back in effect will include the appropriate condition type information in response to a RTRV-COND-HDSL message.

Defined in GR-833.

Related Messages:

DLT-GOS-HDSL	DLT-HDSL
ED-GOS-HDSL	ED-HDSL
ENT-GOS-HDSL	ENT-HDSL
INIT-HDSL	INIT-REG-HDSL
REPT ALM HDSL	REPT EVT HDSL
REPT RMV HDSL	REPT RST HDSL
RLS-LPBK-HDSL	RMV-HDSL
RST-HDSL	RTRV-ALM-HDSL
RTRV-COND-HDSL	RTRV-CSTAT-HDSL
RTRV-GOS-HDSL	RTRV-HDSL
RTRV-HTU	RTRV-PM-HDSL

Input Format

OPR-LPBK-HDSL:[TID]:<HdslAid>:[CTAG]:::<LOCN> , , , <LPBKTYPE >;
--

Input Parameters

- HdslAid** HDSL Port Access Identifier. The address of the HDSL port which the loop back will be applied. *HdslAid* is the AID [SixPortLuAid](#).
- LOCN** Location. This indicates the location at which the loopback is to be applied. *LOCN* is of type [LocationAll](#). The default value is "NEND".
- LPBKTYPE** Loop Back Type. This parameter specifies the type of loop back. *LPBKTYPE* is of type [LpbkFacTermOrPayload](#).

Input Example

```
OPR-LPBK-HDSL:SYS3:N55-3-1-4:4321::NEND,,,FACILITY;
```

Errors

This message generates all of the [Default Errors](#).

OPR-LPBK-T1

Name

OPR-LPBK-T1: Operate Loopback Digital Signal One

Description

Category: DS1 Facility **Security:** Maintenance - by rate

Instructs a C7 to operate a loop back on a specified T1 port.

The T1 port must be placed in an out of service condition before the loop back can be operated.

It is assumed that the specified entity is in a state that allows a loop back to occur. Any C7 that has a loop back in effect will include the appropriate condition type information in response to a RTRV-COND-T1 (Retrieve Condition T1) message.

Defined in GR-833.

Related Messages:

[DLT-AP-T1](#)
[DLT-GOS-T1](#)
[ED-GOS-T1](#)

[DLT-CRS-T1](#)
[DLT-T1](#)
[ED-T1](#)

[ENT-AP-T1](#)
[ENT-GOS-T1](#)
[INIT-REG-T1](#)
[REPT EVT T1](#)
[REPT RST T1](#)
[RMV-T1](#)
[RTRV-ALM-T1](#)
[RTRV-CRS-T1](#)
[RTRV-PM-T1](#)

[ENT-CRS-T1](#)
[ENT-T1](#)
[REPT ALM T1](#)
[REPT RMV T1](#)
[RLS-LPBK-T1](#)
[RST-T1](#)
[RTRV-COND-T1](#)
[RTRV-GOS-T1](#)
[RTRV-T1](#)

Input Format

```
OPR-LPBK-T1:[TID]:<Ds1Aid>:[CTAG]::,,,<LPBKTYPE>;
```

Input Parameters

- Ds1Aid** T1 Port Access Identifier. The address of the T1 port which the loop back will be applied. *Ds1Aid* is the AID [TwelvePortLuAid](#).
- LPBKTYPE** Loop Back Type. This parameter specifies the type of loop back. *LPBKTYPE* is of type [LpbkFacTermOrPayload](#).

Input Example

```
OPR-LPBK-T1:SYS3:N55-3-1-4:4321::,,FACILITY;
```

Errors

This message generates all of the [Default Errors](#).

OPR-LPBK-T3

Name

OPR-LPBK-T3: Operate Loopback Digital Signal 3

Description

Category: DS3 Facility **Security:** Maintenance - by rate

Instructs a C7 to operate a loop back on a specified T3 port.

The T3 port must be placed in an out of service condition before the loop back can be operated.

It is assumed that the specified entity is in a state that allows a loop back to occur. Any C7 that has a loop back in effect will include the appropriate condition type information in response to a RTRV-COND-T3 (Retrieve Condition T3) message.

Defined in GR-833.

Related Messages:

[DLT-GOS-T3](#)

[DLT-T3](#)

[ED-GOS-T3](#)

[ED-T3](#)

[ENT-GOS-T3](#)

[ENT-T3](#)

[INIT-REG-T3](#)

[REPT ALM T3](#)

[REPT EVT T3](#)

[REPT RMV T3](#)

[REPT RST T3](#)

[RLS-LPBK-T3](#)

[RMV-T3](#)

[RST-T3](#)

[RTRV-ALM-T3](#)

[RTRV-COND-T3](#)

[RTRV-GOS-T3](#)

[RTRV-PM-T3](#)

[RTRV-T3](#)

Input Format

```
OPR-LPBK-T3:[TID]:<Ds3Aid>:[CTAG]:::,,,<LPBKTYPE>;
```

Input Parameters

Ds3Aid T3 Port Access Identifier. The address of the T3 port which the loop back will be applied.
Ds3Aid is the AID [T3Aid](#).

LPBKTYPE Loop Back Type. This parameter specifies the type of loop back. *LPBKTYPE* is of type [LpbkFacTermOrPayload](#).

Input Example

```
OPR-LPBK-T3:SYS3:N55-3-1-4:4321:,,,FACILITY;;
```

Errors

This message generates all of the [Default Errors](#).

OPR-PROTNSTW-<OCN>

Name

OPR-PROTNSW-<OCN>: Operate Protection Switch (OC12, OC3, OC48)

Description

Category: Protection Switching

Security: Maintenance - by rate

This command instructs a C7 to initiate a SONET line protection switch request. User switch requests initiated with this command(i.e. forced switch, lockout, and manual switch) remain active until they are released via the RLS-PROTNSW-OCn (Release Protection Switch OCn) 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 a SONET line already on protection, for example,to upgrade the priority of a channel automatically switched to protection to a "forced" switch.

Defined in GR-833.

Related Messages:

[DLT-<OCN>](#)
[DLT-GOS-<OCN>](#)
[ED-FFP-<OCN>](#)
[ENT-<OCN>](#)
[ENT-GOS-<OCN>](#)
[OPR-LPBK-<OCN>](#)
[REPT EVT <OCN>](#)
[REPT RST <OCN>](#)
[RLS-PROTNSW-<OCN>](#)
[RST-<OCN>](#)
[RTRV-ALM-<OCN>](#)
[RTRV-FFP-<OCN>](#)
[RTRV-PM-<OCN>](#)

[DLT-FFP-<OCN>](#)
[ED-<OCN>](#)
[ED-GOS-<OCN>](#)
[ENT-FFP-<OCN>](#)
[INIT-REG-<OCN>](#)
[REPT ALM <OCN>](#)
[REPT RMV <OCN>](#)
[RLS-LPBK-<OCN>](#)
[RMV-<OCN>](#)
[RTRV-<OCN>](#)
[RTRV-COND-<OCN>](#)
[RTRV-GOS-<OCN>](#)

Input Format

```
OPR-PROTNSW-<OCN>:[TID]:<OcNAid>:[CTAG]::  

<SC>;
```

Input Parameters

OcNAid OCn Port Access Identifier. The address of either the working or the protecting OCn port in a facility protection group which is to be operated. *OcNAid* is the AID [FourPortLuAndRapAid](#).

SC Switch Command Priority. Priority of the switch command to be initiated on the entity. *SC* is of type [SwtchCmd](#).

Input Example

OPR-PROTNSW-OC12:SYSA:N3-4-2-3:987::FRCD;

Errors

This message generates all of the [Default Errors](#).

OPR-PROTNSW-<STSN>

Name

OPR-PROTNSW-<[STSN](#)>: Operate Protection Switch (STS1, STS12C, STS3C, STS48C)

Description

Category: Protection Switching

Security: Maintenance - by rate

This command instructs a C7 to initiate a SONET path protection switch request. User switch requests initiated with this command(i.e. forced switch, lockout, and manual switch) remain active until they are released via the RLS-PROTNSW-STSN (Release Protection Switch STS) 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 a SONET path already on protection, for example,to upgrade the priority of a channel automatically switched to protection to a "forced" switch.

Defined in GR-833.

The command is directed to the appropriate protocol based on the STSMAP provisioned for the STS path. If the path is provisioned as either "PT" or "ASYNC", the command is applied on UPSR protocol; otherwise, it is sent to the CRPR protocol to operate on the "UNBR" PPLs on the path.

Related Messages:

- [DLT-<STSN>](#)
- [DLT-GOS-<STSN>](#)
- [ED-CRS-<STSN>](#)
- [ENT-<STSN>](#)
- [ENT-GOS-<STSN>](#)
- [REPT ALM <STSN>](#)
- [REPT RMV <STSN>](#)
- [RLS-PROTNSW-<STSN>](#)
- [RST-<STSN>](#)
- [RTRV-ALM-<STSN>](#)

- [DLT-CRS-<STSN>](#)
- [ED-<STSN>](#)
- [ED-GOS-<STSN>](#)
- [ENT-CRS-<STSN>](#)
- [INIT-REG-<STSN>](#)
- [REPT EVT <STSN>](#)
- [REPT RST <STSN>](#)
- [RMV-<STSN>](#)
- [RTRV-<STSN>](#)
- [RTRV-COND-<STSN>](#)

[RTRV-CRS-<STSN>](#)
[RTRV-PM-<STSN>](#)

[RTRV-GOS-<STSN>](#)

Input Format

```
OPR-PROTNSW-<STSN>:[TID]:<StsAid>:[CTAG]:::  
<SC>;
```

Input Parameters

- StsAid** STS Path Access Identifier. The address of either the working or the protecting STS path in a facility protection group which is to be operated. *StsAid* is the AID [StsAid](#).
- SC** Switch Command Priority. Priority of the switch command to be initiated on the entity. *SC* is of type [SwtchCmd](#).

Input Example

```
OPR-PROTNSW-STS1:SYSA:N3-4-2-3-4:987::FRCD;
```

Errors

This message generates all of the [Default Errors](#).

OPR-PROTNSW-PPL

Name

OPR-PROTNSW-PPL: Operate Protection Switch PPL

Description

Category: Protection Switching

Security: Maintenance - by rate

This command instructs a C7 to initiate a Packet Protection Label switch request. User switch requests initiated with this command (i.e. forced switch, lockout, and manual switch) remain active until they are released via the RLS-PROTNSW-PPL (Release Protection Switch Packet Protection Label) 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 a PPL already on protection, for example,to upgrade the priority of a channel automatically switched to protection to a "forced" switch.

Defined in GR-833.

Related Messages:

[ENT-PPL](#)
[REPT EVT PPL](#)
[RTRV-ALM-PPL](#)
[RTRV-PPL](#)

[REPT ALM PPL](#)
[RLS-PROTNSW-PPL](#)
[RTRV-COND-PPL](#)

Input Format

```
OPR-PROTNSW-PPL:[TID]:<PplAid>:[CTAG]::<SC>;
```

Input Parameters

PplAid Packet Protection Label Access Identifier. The address of either the working or the protecting PPL which is to be operated. *PplAid* is the AID [PplBrAid](#).

SC Switch Command Priority. Priority of the switch command to be initiated on the entity. *SC* is of type [SwtchCmd](#).

Input Example

```
OPR-PROTNSW-PPL:SYSA:N3-4-10-2-34:987::FRCD;;
```

Errors

This message generates all of the [Default Errors](#).

OPR-SYNCNSW

Name

OPR-SYNCNSW: OPR SYNCNSW

Description

Category: Protection Switching **Security:** Maintenance - full

This command instructs the C7 to switch synchronization references. Synchronization reference switches initiated with this command remain active until they are released via the RLS-SYNCNSW (Release Synchronization Switch) command or are overridden by a synchronization reference failure. These references are defined with the ED-TMG (Edit Timing) command.

The TimingAid may specify a shelf or the Derived DS1 Timing Source for that shelf.

Related Messages:

[ED-TMG](#)
[REPT EVT TMG](#)
[RTRV-ALM-TMG](#)
[RTRV-TMG](#)

[REPT ALM TMG](#)
[RLS-SYNCNSW](#)
[RTRV-COND-TMG](#)

Input Format

```
OPR-SYNCNSW: [ TID ] : <TimingAid> : [ CTAG ] :: <SWITCHTO> , <SYNCCMD> ;
```

Input Parameters

- TimingAid** AID of the timing system to be switched. This identifies the shelf and whether the system timing or the DS1 derived timing source is to be changed. *TimingAid* is the AID [TimingAid](#).
- SWITCHTO** Switch To. This parameter identifies the new synchronization reference that will be used. *SWITCHTO* is of type [SwitchTo](#).
- SYNCCMD** Sych Command Priority. Priority of the switch command to be initiated on the entity. *SYNCCMD* is of type [SyncCmd](#).

Input Example

```
OPR-SYNCNSW: SYS3:N4-3-SYS:333::PRI,MAN;
```

Errors

This message generates all of the [Default Errors](#).

PING-IP-HOST

Name

PING-IP-HOST: PING IP HOST

Description

Category: IP **Security:** N/A

Ping an IP host. This command may be used to debug route provisioning. The number of responses will be equal to NPING.

Input Format

```
PING-IP-
HOST:[TID]:<RtrAid>:[CTAG]:::IP=<IP>, [ [NPING=<NPING> , ] [PSIZE=<PSIZE> , ]
[INTERVAL=<INTERVAL> , ] [TIMEOUT=<TIMEOUT> ] ];
```

Input Parameters

- RtrAid** Access IDentifier of an AMP, IRC, Virtual Router, H.248 IG, or VSP port. *RtrAid* is the AID [HostId3](#). *RtrAid* must not be null.
- IP** The host IP address. *IP* is the AID [IpAid](#). *IP* must not be null.
- NPING** The number of ping requests to send. NPING must be between 1 and 100. *NPING* is a Integer. A null value defaults to "5".
- PSIZE** The ICMP data size for each ping packet. This size excludes the size of the ICMP header. PSIZE must be between 0 and 1472 bytes. *PSIZE* is a Integer. A null value defaults to "64".
- INTERVAL** Interval between pings, in milliseconds. INTERVAL must be between 50 and 2000. *INTERVAL* is a Integer. A null value defaults to "50".
- TIMEOUT** The number of milliseconds to wait for a reply. TIMEOUT must be between 500 and 3000. *TIMEOUT* is a Integer. A null value defaults to "500".

Input Example

```
PING-IP-HOST::N1-1-
MS:CTAG:::IP=192.168.12.5, NPING=5, PSIZE=56, INTERVAL=50,
TIMEOUT=1000;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<RtrAid>:[<SEQNUM>]:[ [IP=<IP> , ] [PASS=<PASS> , ] [NPASS=<NPASS> , ]
[NFAIL=<NFAIL> , ] [MS=<MS> , ] [INFO=<INFO> ] ]"
;
```

Output Parameters

- RtrAid** Access IDentifier of an AMP, IRC, Virtual Router, H.248 IG, or VSP port. *RtrAid* is the AID [HostId](#).
- SEQNUM** The sequence number for this ping attempt. *SEQNUM* is a Integer. *SEQNUM* is optional.
- IP** The host IP address. *IP* is the AID [IpAid](#). *IP* is optional.
- PASS** Was a response received? *PASS* is of type [BoolYN](#). *PASS* is optional.
- NPASS** Total successful replies. *NPASS* is a Integer. *NPASS* is optional.

- NFAIL** Total failures. *NFAIL* is a Integer. *NFAIL* is optional.
- MS** Response time in milliseconds. *MS* is a Integer. *MS* is optional.
- INFO** Additional information. *INFO* is a String. *INFO* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-1-
MS:1:IP=192.168.12.5,PASS=Y,NPASS=5,NFAIL=0,MS=145,INFO=\\"FOO\\"
;"
```

Errors

This message generates all of the [Default Errors](#).

REPT ALM <OCN>

Name

REPT ALM <[OCN](#)>: Report Alarm (OC12, OC3, OC48)

Description

Category: Fault **Security:** Maintenance - read

Report Alarm OCn is generated by a C7 to report the occurrence of alarmed events against the OCn.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Related Messages:

[DLT-<OCN>](#)
[DLT-GOS-<OCN>](#)
[ED-FFP-<OCN>](#)
[ENT-<OCN>](#)
[ENT-GOS-<OCN>](#)
[OPR-LPBK-<OCN>](#)

[DLT-FFP-<OCN>](#)
[ED-<OCN>](#)
[ED-GOS-<OCN>](#)
[ENT-FFP-<OCN>](#)
[INIT-REG-<OCN>](#)
[OPR-PROTNSW-<OCN>](#)

[REPT EVT <OCN>](#)
[REPT RST <OCN>](#)
[RLS-PROTNSW-<OCN>](#)
[RST-<OCN>](#)
[RTRV-ALM-<OCN>](#)
[RTRV-FFP-<OCN>](#)
[RTRV-PM-<OCN>](#)

[REPT RMV <OCN>](#)
[RLS-LPBK-<OCN>](#)
[RMV-<OCN>](#)
[RTRV-<OCN>](#)
[RTRV-COND-<OCN>](#)
[RTRV-GOS-<OCN>](#)

Output Format

```
    SID DATE TIME
** ATAG REPT ALM <OCN>
"<OcNAid>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>,[<LOCN>]:,,,
[<OBSDBHVR>]"
;
```

Output Parameters

- OcNAid** OCn Port Access Identifier. The address of the OCn port which the alarm is being raised against. *OcNAid* is the AID [FourPortLuAndRapAid](#).
- NTFCNCDE** Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. *NTFCNCDE* is of type [NotificationAlm](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type for the alarm. *CONDTYPE* is of type [CondTypeOcN](#).
- SRVEFF** Service Effecting. This parameter identifies if the alarm condition has an effect on service. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.
- LOCN** Location. This parameter identifies the location associated with a particular alarm. *LOCN* is of type [Location](#). *LOCN* is optional.
- OBSDBHVR** Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. *OBSDBHVR* is a String. *OBSDBHVR* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
** 001 REPT ALM OC12
"N4-4-4-4:MN,AIS,NSA,3-4,15-15-15,FEND:,,\"ERROR
0X123456768\""
;
```

REPT ALM <STS>

Name

REPT ALM <[STS](#)>: Report Alarm (STS1, STS12C, STS3C, STS48C)

Description

Category: Fault **Security:** Maintenance - read

Report Alarm STS is generated by a C7 to report the occurrence of alarmed events against the STS.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Related Messages:

[DLT-<STS>](#)

[DLT-GOS-<STS>](#)

[ED-CRS-<STS>](#)

[ENT-<STS>](#)

[ENT-GOS-<STS>](#)

[OPR-PROTNSW-<STS>](#)

[REPT RMV <STS>](#)

[RLS-PROTNSW-<STS>](#)

[RST-<STS>](#)

[RTRV-ALM-<STS>](#)

[RTRV-CRS-<STS>](#)

[RTRV-PM-<STS>](#)

[DLT-CRS-<STS>](#)

[ED-<STS>](#)

[ED-GOS-<STS>](#)

[ENT-CRS-<STS>](#)

[INIT-REG-<STS>](#)

[REPT EVT <STS>](#)

[REPT RST <STS>](#)

[RMV-<STS>](#)

[RTRV-<STS>](#)

[RTRV-COND-<STS>](#)

[RTRV-GOS-<STS>](#)

Output Format

```

SID DATE TIME
** ATAG REPT ALM <STS>

"<StsAid>:<NTFCNCDE>, <CONDTYPE>, <SRVEFF>, <OCRDAT>, <OCRTM>, [ <LOCN> ]: , ,
    [<OBSDBHVR>]"
;

```

Output Parameters

StsAid STS Path Access Identifier. The address of the STS path which the alarm is being raised against. *StsAid* is the AID [StsAid](#).

NTFCNCDE	Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. <i>NTFCNCDE</i> is of type NotificationAlm .
CONDTYPE	Condition Type. This parameter identifies the condition type for the alarm. <i>CONDTYPE</i> is of type CondTypeStsAlm .
SRVEFF	Service Effecting. This parameter identifies if the alarm condition has an effect on service. <i>SRVEFF</i> is of type ServiceEffect .
OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. <i>OCRDAT</i> is a Date.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time.
LOCN	Location. This parameter identifies the location associated with a particular alarm. <i>LOCN</i> is of type Location . <i>LOCN</i> is optional.
OBSDBHVR	Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. <i>OBSDBHVR</i> is a String. <i>OBSDBHVR</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
** 001 REPT ALM STS1
"N4-4-4-4-1-2:MN,LOF,NSA,3-4,15-15-15,FEND:,,\"ERROR
0X123456768\""
;
```

REPT ALM ADSL

Name

REPT ALM ADSL: Report Alarm Asymmetric Digital Subscriber Line

Description

Category: Fault **Security:** Maintenance - read

Report Alarm ADSL is generated by a C7 to report the occurrence of alarmed events against an ADSL port.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Related Messages:

[DLT-ADSL](#)
[DLT-TMPLT-ADSL](#)
[ED-GOS-ADSL](#)
[ENT-GOS-ADSL](#)
[INIT-ADSL](#)
[INIT-REG-ADSL](#)
[REPT RMV ADSL](#)
[RMV-ADSL](#)
[RTRV-ADSL](#)
[RTRV-COND-ADSL](#)
[RTRV-GOS-ADSL](#)
[RTRV-TMPLT-ADSL](#)

[DLT-GOS-ADSL](#)
[ED-ADSL](#)
[ENT-ADSL](#)
[ENT-TMPLT-ADSL](#)
[INIT-PWR-ADSL](#)
[REPT EVT ADSL](#)
[REPT RST ADSL](#)
[RST-ADSL](#)
[RTRV-ALM-ADSL](#)
[RTRV-CSTAT-ADSL](#)
[RTRV-PM-ADSL](#)

Output Format

```
SID DATE TIME
** ATAG REPT ALM ADSL
"<AdslAid>:<NTFCNCDE>, <CONDTYPE>, <SRVEFF>, <OCRDAT>, <OCRTM>, [ <LOCN> ] : , ,
    [ <OBSDBHVR> ] "
;"
```

Output Parameters

- AdslAid** ADSL Port Access Identifier. The address of the ADSL port which the alarm is being raised against. *AdslAid* is the AID [TwentyFourPortLuAid](#).
- NTFCNCDE** Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. *NTFCNCDE* is of type [NotificationAlm](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type for the alarm. *CONDTYPE* is of type [CondTypeDslAlm](#).
- SRVEFF** Service Effecting. This parameter identifies if the alarm condition has an effect on service. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.
- LOCN** Location. This parameter identifies the location associated with a particular alarm. *LOCN* is of type [Location](#). *LOCN* is optional.
- OBSDBHVR** Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. *OBSDBHVR* is a String. *OBSDBHVR* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
** 001 REPT ALM ADSL
```

```
"N77-3-12-4:MN,LOF,SA,4-9,7-30-40,FEND:,,\"ERROR
0X123456768\""
;
```

REPT ALM AP

Name

REPT ALM AP: Report Alarm ATM Resource Port

Description

Category: Fault **Security:** Maintenance - read

No Comment Defined.

Related Messages:

[DLT-AP](#)

[DLT-GOS-AP](#)

[DLT-GOS-IMALINK](#)

[DLT-IMA-PORT](#)

[ED-GOS-AP](#)

[ED-GOS-IMALINK](#)

[ENT-AP](#)

[ENT-GOS-AP](#)

[ENT-GOS-IMALINK](#)

[ENT-IMA-PORT](#)

[INIT-REG-IMA](#)

[REPT ALM IMA](#)

[REPT EVT AP](#)

[REPT EVT IMALINK](#)

[REPT RST AP](#)

[RMV-IMA](#)

[RST-IMA](#)

[RTRV-ALM-IMA](#)

[RTRV-AP](#)

[RTRV-COND-IMA](#)

[RTRV-GOS-IMA](#)

[RTRV-IMA](#)

[RTRV-PM-IMA](#)

[DLT-AP-T1](#)

[DLT-GOS-IMA](#)

[DLT-IMA](#)

[ED-AP](#)

[ED-GOS-IMA](#)

[ED-IMA](#)

[ENT-AP-T1](#)

[ENT-GOS-IMA](#)

[ENT-IMA](#)

[INIT-REG-AP](#)

[INIT-REG-IMALINK](#)

[REPT ALM IMALINK](#)

[REPT EVT IMA](#)

[REPT RMV AP](#)

[RMV-AP](#)

[RST-AP](#)

[RTRV-ALM-AP](#)

[RTRV-ALM-IMALINK](#)

[RTRV-COND-AP](#)

[RTRV-GOS-AP](#)

[RTRV-GOS-IMALINK](#)

[RTRV-PM-AP](#)

[RTRV-PM-IMALINK](#)

Output Format

```

SID DATE TIME
** ATAG REPT ALM AP

"<ApAid>:<NTFCNCDE>, <CONDTYPE>, <SRVEFF>, <OCRDAT>, <OCRTM>, [ <LOCN> ] : , ,
[ <OBSDBHVR> ] "
;
```

Output Parameters

ApAid *ApAid* is the AID [AtmRscPortAid](#).

NTFCNCDE *NTFCNCDE* is of type [NotificationAlm](#).

CONDTYPE *CONDTYPE* is of type [CondTypeAp](#).

SRVEFF *SRVEFF* is of type [ServiceEffect](#).

OCRDAT *OCRDAT* is a Date.

OCRTM *OCRTM* is a Time.

LOCN *LOCN* is of type [Location](#). *LOCN* is optional.

OBSDBHVR *OBSDBHVR* is a String. *OBSDBHVR* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
** 001 REPT ALM AP
"N3-4-4-AP12:MN,AUDITMM,NSA,3-4,15-15-15,NEND: , , \"ERROR
0X123456768\""
;
```

REPT ALM AVO

Name

REPT ALM AVO: Report Alarm Analog Video Overlay

Description

Category: Fault **Security:** Maintenance - read

Report Alarm AVO is generated by a C7 to report the occurrence of alarmed events against an Analog Video Overlay port.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or

performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM ONT
REPT ALM RFVID	REPT ALM VCG
REPT ALM VRP	REPT EVT ONT
REPT RMV AVO	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Output Format

```

    SID DATE TIME
** ATAG REPT ALM AVO
"<OntPortAid>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>,[<LOCN>]:,,,
[<OBSDBHV>]"
```

Output Parameters

- OntPortAid** The AID of the AVO Port. *OntPortAid* is the AID [OntPortAid](#).
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the alarm condition. Notification Code. This parameter is used to filter the response based on the notification code associated with the alarm conditions. *NTFCNCDE* is of type [NotificationAlm](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type of the alarm. Where a condition type is a trouble conditions, irregularity or error conditions respectively. *CONDTYPE* is of type [CondTypeAvo](#).
- SRVEFF** Service Effect. This parameter identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.
- LOCN** Location. This parameter identifies the location associated with a particular alarm. *LOCN* is of type [Location](#). *LOCN* is optional.
- OBSDBHVR** Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. *OBSDBHVR* is a String. *OBSDBHVR* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
** 001 REPT ALM AVO
  "N6-3-11-1-22-1:MN,LOS,SA,3-4,15-15-15,NEND:,,\"ERROR
0X123456768\""
;
```

REPT ALM BWCLINK

Name

REPT ALM BWCLINK: Report Alarm Link Bandwidth Constraint

Description

Category: Fault **Security:** Maintenance - read

Report Alarm Link Bandwidth Constraint is generated by a C7 to report the occurrence of alarmed events against the Link Bandwidth Constraint .

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Output Format

```

SID DATE TIME
** ATAG REPT ALM BWCLINK
"<LinkBwcAid>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>,[<LOCN>]:,,,
[<OBSDBHVR>]"
;
```

Output Parameters

LinkBwcAid Link Bandwidth Constraint Access Identifier. *LinkBwcAid* is the AID [LinkBwcAid](#).

NTFCNCDE Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. *NTFCNCDE* is of type [NotificationAlm](#).

CONDTYPE Condition Type. This parameter identifies the condition type for the alarm. *CONDTYPE* is of type [CondTypeBwcLink](#).

SRVEFF Service Effecting. This parameter identifies if the alarm condition has an effect on service. *SRVEFF* is of type [ServiceEffect](#).

OCRDAT Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.

OCRTM Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.

LOCN Location. This parameter identifies the location associated with a particular alarm. *LOCN* is of type [Location](#). *LOCN* is optional.

OBSDBHVR Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. *OBSDBHVR* is a String. *OBSDBHVR* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
** 001 REPT ALM BWCLINK
"N4-3-2-1-BWC1:MN,RXBWLMT,NSA,3-5,1-5-3,NEND:,,\"ERROR
0X123456768\""
;
```

REPT ALM CMS

Name

REPT ALM CMS: Report Alarm Calix Management System

Description

Category: Fault **Security:** Maintenance - read

Report Alarm CMS is only generated by the Calix Management System to report the occurrence of alarmed events against itself.

Trouble events occurring in the CMS are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Output Format

```

    SID DATE TIME
** ATAG REPT ALM CMS
  "CMS:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>"
;
```

Output Parameters

NTFCNCDE Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. *NTFCNCDE* is of type [NotificationAlm](#).

CONDTYPE Condition Type. This parameter identifies the condition type for the alarm. *CONDTYPE* is of type [CondTypeCms](#).

SRVEFF Service Effecting. This parameter identifies if the alarm condition has an effect on service. *SRVEFF* is of type [ServiceEffect](#).

OCRDAT Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.

OCRTM Location. This parameter identifies the location associated with a particular alarm. *OCRTM* is a Time.

Output Example

```

    TID-000 98-06-20 14-30-00
** 001 REPT ALM CMS
  "CMS:MJ,LOGDOWN,NSA,3-4,15-15-15"
;
```

REPT ALM EC1

Name

REPT ALM EC1: Report Alarm Electrical Carrier

Description

Category: Fault **Security:** Maintenance - read

Report Alarm EC1 is generated by a C7 to report the occurrence of alarmed events against an EC1 port.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Related Messages:

[DLT-EC1](#)
[ED-EC1](#)
[ENT-EC1](#)
[INIT-REG-EC1](#)
[REPT EVT EC1](#)
[REPT RST EC1](#)
[RMV-EC1](#)
[RTRV-ALM-EC1](#)
[RTRV-EC1](#)
[RTRV-PM-EC1](#)

[DLT-GOS-EC1](#)
[ED-GOS-EC1](#)
[ENT-GOS-EC1](#)
[OPR-LPBK-EC1](#)
[REPT RMV EC1](#)
[RLS-LPBK-EC1](#)
[RST-EC1](#)
[RTRV-COND-EC1](#)
[RTRV-GOS-EC1](#)

Output Format

```

SID DATE TIME
** ATAG REPT ALM EC1
"<Ec1Aid>:<NTFCNCDE>, <CONDTYPE>, <SRVEFF>, <OCRDAT>, <OCRTM>, [ <LOCN> ] : , ,
[ <OBSDBHVR> ]"
;
```

Output Parameters

Ec1Aid Access Identifier. The address of the EC1 port which the alarm is being raised against.
Ec1Aid is the AID [TwelvePortLuAid](#).

- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the alarm condition. Notification Code. This parameter is used to filter the response based on the notification code associated with the alarm conditions. *NTFCNCDE* is of type [NotificationAlm](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type of the alarm. Where a condition type is a trouble conditions, irregularity or error conditions respectively. *CONDTYPE* is of type [CondTypeOcN](#).
- SRVEFF** Service Effect. This parameter identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.
- LOCN** Location. This parameter identifies the location associated with a particular alarm. *LOCN* is of type [Location](#). *LOCN* is optional.
- OBSDBHVR** Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. *OBSDBHVR* is a String. *OBSDBHVR* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
** 001 REPT ALM EC1
"N4-4-4-4:MN,AIS,NSA,3-4,15-15-15,FEND:,,\"ERROR
0X123456768\""
;
```

REPT ALM ENV

Name

REPT ALM ENV: Report Alarm Environment

Description

Category: Fault **Security:** Maintenance - read

Report Alarm Environmental is generated by a C7 to report the occurrence of alarmed events against the environmental input contacts.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed

event.

Defined in GR-833.

Related Messages:

[OPR-EXT-CONT](#)
[RLS-EXT-CONT](#)
[RTRV-ATTR-CONT](#)
[RTRV-COND-ENV](#)
[SET-ATTR-CONT](#)

[REPT EVT CONT](#)
[RTRV-ALM-ENV](#)
[RTRV-ATTR-ENV](#)
[RTRV-EXT-CONT](#)
[SET-ATTR-ENV](#)

Output Format

```
    SID DATE TIME
** ATAG REPT ALM ENV
  "<EnvAid>:<NTFCNCDE>, <ALMTYPE>, [ <OCRDAT> ], [ <OCRTM> ], <ALMMSG> "
;
```

Output Parameters

EnvAid *EnvAid* is the AID [EnvAid](#).

NTFCNCDE Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. *NTFCNCDE* is of type [NotificationAlm](#).

ALMTYPE Condition Type. This parameter identifies the condition type for the alarm. *ALMTYPE* is of type [CondTypeEnvAlm](#).

OCRDAT Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.

OCRTM Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.

ALMMSG Alarm Message. This parameter is a textual description of the alarm type *ALMMSG* is a String.

Output Example

```
TID-000 98-06-20 14-30-00
** 001 REPT ALM ENV
  "N3-ENV5 :MJ ,BATTERY,04-1,12-00-00 ,\ "BATTERY FAILURE\ "
;
```

REPT ALM EQPT

Name

REPT ALM EQPT: Report Alarm Equipment

Description

Category: Fault **Security:** Maintenance - read

Report Alarm Equipment is generated by a C7 to report the occurrence of alarmed events against the equipment.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Related Messages:

[ALW-Swdx-EQPT](#)
[ALW-Swtowkg-EQPT](#)
[ED-EQPT](#)
[INH-Swdx-EQPT](#)
[INH-Swtowkg-EQPT](#)
[REPT RMV EQPT](#)
[RMV-EQPT](#)
[RTRV-ALM-EQPT](#)
[RTRV-EQPT](#)
[SW-TOPROTN-EQPT](#)

[ALW-Swtoprotn-EQPT](#)
[DLT-EQPT](#)
[ENT-EQPT](#)
[INH-Swtoprotn-EQPT](#)
[REPT EVT EQPT](#)
[REPT RST EQPT](#)
[RST-EQPT](#)
[RTRV-COND-EQPT](#)
[SW-DX-EQPT](#)
[SW-TOWKG-EQPT](#)

Output Format

```

    SID DATE TIME
** ATAG REPT ALM EQPT
"<EqptAid>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>: ,<OBSDBHVR>"
;
```

Output Parameters

EqptAid Equipment Access Identifier. The address of the equipment which the alarm is being raised against. *EqptAid* is the AID [EquipmentId](#).

NTFCNCDE Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. *NTFCNCDE* is of type [NotificationAlm](#).

CONDTYPE Condition Type. This parameter identifies the condition type for the alarm. *CONDTYPE* is of type [CondTypeEqpt](#).

SRVEFF Service Effecting. This parameter identifies if the alarm condition has an effect on

service. *SRVEFF* is of type [ServiceEffect](#).

- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.
- OBSDBHVR** Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. *OBSDBHVR* is a String.

Output Example

```
TID-000 98-06-20 14-30-00
** 001 REPT ALM EQPT
"N4-3-5:MN,PWR,NSA,3-5,1-5-3:,,\"ERROR 0X12345678\""
;
```

REPT ALM ETH

Name

REPT ALM ETH: Report Alarm Ethernet Port

Description

Category: Fault **Security:** Maintenance - read

Report Alarm Ethernet is generated by a C7 to report the occurrence of alarmed events against an Ethernet port.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Related Messages:

[DLT-AGG](#)
[DLT-AGG-PORT](#)
[DLT-ETH-ACL](#)
[DLT-LSWITCH](#)
[DLT-PROF-ETH](#)
[DLT-VLAN-PORT](#)

[DLT-AGG-ACL](#)
[DLT-ETH](#)
[DLT-GOS-ETH](#)
[DLT-LSWITCH-PORT](#)
[DLT-VLAN](#)
[DLT-VLAN-VBPORT](#)

ED-ETH	ED-GOS-ETH
ED-VLAN	ED-VLAN-PORT
ED-VLAN-VBPORT	ENT-AGG
ENT-AGG-ACL	ENT-AGG-PORT
ENT-ETH	ENT-ETH-ACL
ENT-GOS-ETH	ENT-LSWITCH
ENT-LSWITCH-PORT	ENT-PROF-ETH
ENT-VLAN	ENT-VLAN-PORT
ENT-VLAN-VBPORT	INIT-LSWITCH
INIT-STAT-ETH	REPT EVT ETH
REPT RMV ETH	REPT RST ETH
RMV-ETH	RST-ETH
RTRV-AGG	RTRV-AGG-ACL
RTRV-AGG-PORT	RTRV-ALM-ETH
RTRV-COND-ETH	RTRV-ETH
RTRV-ETH-ACL	RTRV-GOS-ETH
RTRV-LSWITCH	RTRV-LSWITCH-PORT
RTRV-PM-ETH	RTRV-PROF-ETH
RTRV-STAT-ETH	RTRV-VLAN
RTRV-VLAN-PORT	RTRV-VLAN-VBPORT

Output Format

```

SID DATE TIME
** ATAG REPT ALM ETH
"<EthAid>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>,[<LOCN>]:,,
[<OBSDBHVR>]"
;
```

Output Parameters

- EthAid** Ethernet Access Identifier. The address of the ethernet port which the alarm is being raised against. *EthAid* is the AID [TwelvePortLuAid](#).
- NTFCNCDE** Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. *NTFCNCDE* is of type [NotificationAlm](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type for the alarm. *CONDTYPE* is of type [CondTypeEth](#).
- SRVEFF** Service Effecting. This parameter identifies if the alarm condition has an effect on service. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.
- LOCN** Location. This parameter identifies the location associated with a particular alarm. *LOCN* is of type [Location](#). *LOCN* is optional.

OBSDBHVR Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. *OBSDBHVR* is a String. *OBSDBHVR* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
** 001 REPT ALM ETH
  "N3-4-4-4:MN,AIS,NSA,3-4,15-15-15,FEND: , , \"ERROR
0x123456768\""
;
```

REPT ALM GR303

Name

REPT ALM GR303: Report Alarm GR303

Description

Category: Fault **Security:** Maintenance - read

Report Alarm GR303 is generated by a C7 to report the occurrence of alarmed events against the EOC/TMC data links.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Related Messages:

[ALW-Swdx-GR303](#)
[DLT-CRS-T0](#)
[DLT-GR8](#)
[DLT-T1TG](#)
[ED-GR8](#)
[ENT-GR303](#)
[ENT-IG-DS1](#)
[INH-Swdx-GR303](#)
[REPT ALM T1TG](#)
[REPT EVT T1TG](#)

[ALW-Swdx-T1TG](#)
[DLT-GR303](#)
[DLT-IG-DS1](#)
[ED-GR303](#)
[ENT-CRS-T0](#)
[ENT-GR8](#)
[ENT-T1TG](#)
[INH-Swdx-T1TG](#)
[REPT EVT GR303](#)
[REPT SW GR303](#)

[REPT SW T1TG](#)[RTRV-ALM-T1TG](#)[RTRV-COND-T1TG](#)[RTRV-DLSTAT-GR303](#)[RTRV-GR303](#)[RTRV-IG-DS1](#)[SW-DX-GR303](#)[RTRV-ALM-GR303](#)[RTRV-COND-GR303](#)[RTRV-CRS-T0](#)[RTRV-DLSTAT-T1TG](#)[RTRV-GR8](#)[RTRV-T1TG](#)[SW-DX-T1TG](#)

Output Format

```

SID DATE TIME
** ATAG REPT ALM GR303

"<DataLinkSwAid>:<NTFCNCDE>, <CONDTYPE>, <SRVEFF>, <OCRDAT>, <OCRTM>: , ,
[<OBSDBHVR>] "
;
```

Output Parameters

DataLinkSwAid GR303 Data Link Access Identifier. The address of the EOC/TMC data link which the alarm is being raised against. *DataLinkSwAid* is the AID [IgLinkSwAid](#).

NTFCNCDE Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. *NTFCNCDE* is of type [NotificationAlm](#).

CONDTYPE Condition Type. This parameter identifies the condition type for the alarm. *CONDTYPE* is of type [CondTypeIg](#).

SRVEFF Service Effecting. This parameter identifies if the alarm condition has an effect on service. *SRVEFF* is of type [ServiceEffect](#).

OCRDAT Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.

OCRTM Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.

OBSDBHVR Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. *OBSDBHVR* is a String. *OBSDBHVR* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
** 001 REPT ALM GR303
"N7-3-IG5-EOC:CR,EOCDUPLEX,NSA,6-6,8-18-19:,,\"ERROR
0X123456768\""
;
```

Name

REPT ALM H248: Report Alarm H248

Description

Category: Fault **Security:** Maintenance - read

Report Alarm H248 is generated by a C7 to report the occurrence of alarmed events against an H248 Concentration Group.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Related Messages:

[DLT-H248](#)

[DLT-IG-VSP](#)

[DLT-VSP](#)

[ED-H248](#)

[ED-VSP](#)

[ENT-H248](#)

[ENT-IG-VSP](#)

[ENT-VSP](#)

[RTRV-ALM-H248](#)

[RTRV-COND-H248](#)

[RTRV-H248](#)

[RTRV-IG-VSP](#)

[RTRV-VSP](#)

Output Format

```
    SID DATE TIME
** ATAG REPT ALM H248
  "<IgAid>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>"
;
```

Output Parameters

IgAid The AID of the H248 Interface Group *IgAid* is the AID [IgAid](#).

NTFCNCDE Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. *NTFCNCDE* is of type [NotificationAlm](#).

CONDTYPE Condition Type. This parameter identifies the condition type for the alarm. *CONDTYPE* is of type [CondTypeH248](#).

SRVEFF Service Effecting. This parameter identifies if the alarm condition has an effect on service. *SRVEFF* is of type [ServiceEffect](#).

OCRDAT Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRDAT* is a Date.

OCRTM Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.

Output Example

```
TID-000 98-06-20 14-30-00
** 001 REPT ALM H248
"N3-1-IG2:MJ ,CALLPROCLU ,SA ,3-22 ,14-36-12"
;
```

REPT ALM HDSL

Name

REPT ALM HDSL: Report Alarm High bit rate Digital Subscriber Line

Description

Category: Fault **Security:** Maintenance - read

Report Alarm HDSL is generated by a C7 to report the occurrence of alarmed events against an HDSL port.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Related Messages:

DLT-GOS-HDSL	DLT-HDSL
ED-GOS-HDSL	ED-HDSL
ENT-GOS-HDSL	ENT-HDSL
INIT-HDSL	INIT-REG-HDSL
OPR-LPBK-HDSL	REPT EVT HDSL
REPT RMV HDSL	REPT RST HDSL
RLS-LPBK-HDSL	RMV-HDSL
RST-HDSL	RTRV-ALM-HDSL
RTRV-COND-HDSL	RTRV-CSTAT-HDSL
RTRV-GOS-HDSL	RTRV-HDSL
RTRV-HTU	RTRV-PM-HDSL

Output Format

```

SID DATE TIME
** ATAG REPT ALM HDSL
"<HdslAid>:<NTFCNCDE>, <CONDTYPE>, <SRVEFF>, <OCRDAT>, <OCRTM>, [ <LOCN> ] : , ,
[ <OBSDBHVR> ] "
;

```

Output Parameters

- HdslAid** HDSL Port Access Identifier. The address of the HDSL port which the alarm is being raised against. *HdslAid* is the AID [SixPortLuAid](#).
- NTFCNCDE** Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. *NTFCNCDE* is of type [NotificationAlm](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type for the alarm. *CONDTYPE* is of type [CondTypeHds](#)l.
- SRVEFF** Service Effecting. This parameter identifies if the alarm condition has an effect on service. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.
- LOCN** Location. This parameter identifies the location associated with a particular alarm. *LOCN* is of type [LocationAll](#). *LOCN* is optional.
- OBSDBHVR** Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. *OBSDBHVR* is a String. *OBSDBHVR* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
** 001 REPT ALM HDSL
"N4-4-4-4:MN,LOS,SA,3-4,15-15-15,FEND:,,\"ERROR
0x123456768\""
;

```

REPT ALM IMA

Name

REPT ALM IMA: Report Alarm IMA

Description

Category: Fault **Security:** Maintenance - read

Report Alarm IMA is generated by a C7 to report the occurrence of alarmed events against an IMA group.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Related Messages:

DLT-AP	DLT-AP-T1
DLT-GOS-AP	DLT-GOS-IMA
DLT-GOS-IMALINK	DLT-IMA
DLT-IMA-PORT	ED-AP
ED-GOS-AP	ED-GOS-IMA
ED-GOS-IMALINK	ED-IMA
ENT-AP	ENT-AP-T1
ENT-GOS-AP	ENT-GOS-IMA
ENT-GOS-IMALINK	ENT-IMA
ENT-IMA-PORT	INIT-REG-AP
INIT-REG-IMA	INIT-REG-IMALINK
REPT ALM AP	REPT ALM IMALINK
REPT EVT AP	REPT EVT IMA
REPT EVT IMALINK	REPT RMV AP
REPT RST AP	RMV-AP
RMV-IMA	RST-AP
RST-IMA	RTRV-ALM-AP
RTRV-ALM-IMA	RTRV-ALM-IMALINK
RTRV-AP	RTRV-COND-AP
RTRV-COND-IMA	RTRV-GOS-AP
RTRV-GOS-IMA	RTRV-GOS-IMALINK
RTRV-IMA	RTRV-PM-AP
RTRV-PM-IMA	RTRV-PM-IMALINK

Output Format

```

SID DATE TIME
** ATAG REPT ALM IMA

"<ImaAid>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>,[<LOCN>]:,,,
[<OBSDBHVR>]"
;
```

Output Parameters

ImaAid	IMA Group Access Identifier. The address of the IMA group which caused the event to be generated. <i>ImaAid</i> is the AID ImaGrpAid .
NTFCNCDE	Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. <i>NTFCNCDE</i> is of type NotificationAlm .
CONDTYPE	Condition Type. This parameter identifies the condition type for the alarm. <i>CONDTYPE</i> is of type CondTypeIma .
SRVEFF	Service Effecting. This parameter identifies if the alarm condition has an effect on service. <i>SRVEFF</i> is of type ServiceEffect .
OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. <i>OCRDAT</i> is a Date.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time.
LOCN	Location. This parameter identifies the location associated with a particular alarm. <i>LOCN</i> is of type Location . <i>LOCN</i> is optional.
OBSDBHVR	Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. <i>OBSDBHVR</i> is a String. <i>OBSDBHVR</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
** 001 REPT ALM IMA
  "N1-2-3-IMA4:MN,TIMMIS,NSA,3-4,15-15-15,FEND:,,\"ERROR
0X123456768\""
;
```

REPT ALM IMALINK

Name

REPT ALM IMALINK: Report Alarm IMALINK

Description

Category: Fault **Security:** Maintenance - read

Report Alarm IMA Link is generated by a C7 to report the occurrence of alarmed events against an IMA link.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or

performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Related Messages:

DLT-AP	DLT-AP-T1
DLT-GOS-AP	DLT-GOS-IMA
DLT-GOS-IMALINK	DLT-IMA
DLT-IMA-PORT	ED-AP
ED-GOS-AP	ED-GOS-IMA
ED-GOS-IMALINK	ED-IMA
ENT-AP	ENT-AP-T1
ENT-GOS-AP	ENT-GOS-IMA
ENT-GOS-IMALINK	ENT-IMA
ENT-IMA-PORT	INIT-REG-AP
INIT-REG-IMA	INIT-REG-IMALINK
REPT ALM AP	REPT ALM IMA
REPT EVT AP	REPT EVT IMA
REPT EVT IMALINK	REPT RMV AP
REPT RST AP	RMV-AP
RMV-IMA	RST-AP
RST-IMA	RTRV-ALM-AP
RTRV-ALM-IMA	RTRV-ALM-IMALINK
RTRV-AP	RTRV-COND-AP
RTRV-COND-IMA	RTRV-GOS-AP
RTRV-GOS-IMA	RTRV-GOS-IMALINK
RTRV-IMA	RTRV-PM-AP
RTRV-PM-IMA	RTRV-PM-IMALINK

Output Format

```

SID DATE TIME
** ATAG REPT ALM IMALINK
"<ImaLinkAid>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>,[<LOCN>]:,,,
[<OBSDBHVR>]"
;

```

Output Parameters

ImaLinkAid IMA Link Access Identifier. The address of the IMA link which caused the event to be generated. *ImaLinkAid* is the AID [SixPortLuAid](#).

NTFCNCDE Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. *NTFCNCDE* is of type [NotificationAlm](#).

CONDTYPE	Condition Type. This parameter identifies the condition type for the alarm. <i>CONDTYPE</i> is of type CondTypeImaLink .
SRVEFF	Service Effecting. This parameter identifies if the alarm condition has an effect on service. <i>SRVEFF</i> is of type ServiceEffect .
OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. <i>OCRDAT</i> is a Date.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time.
LOCN	Location. This parameter identifies the location associated with a particular alarm. <i>LOCN</i> is of type Location . <i>LOCN</i> is optional.
OBSDBHVR	Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. <i>OBSDBHVR</i> is a String. <i>OBSDBHVR</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
** 001 REPT ALM IMALINK
  "N4-4-4-4:MN,LIF,SA,3-4,15-15-15,NEND:,,\"ERROR
0X123456768\""
;
```

REPT ALM LSWPORT

Name

REPT ALM LSWPORT: Report Alarm Logical Switch Port

Description

Category: Fault **Security:** Maintenance - read

Report Alarm LSwitch is generated by a C7 to report the occurrence of alarmed events against an LSwitch.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Output Format

```

SID DATE TIME
** ATAG REPT ALM LSWPORT
"<LSwitchPortAid>:<NTFCNCDE>, <CONDTYPE>, <SRVEFF>, <OCRDAT>, <OCRTM>, [ <LOCN> ]:
, , [<OBSDBHVR>]"
;
```

Output Parameters

LSwitchPortAid	Logical Switch Port Access Identifier. <i>LSwitchPortAid</i> is the AID LSwitchPortAid .
NTFCNCDE	Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. <i>NTFCNCDE</i> is of type NotificationAlm .
CONDTYPE	Condition Type. This parameter identifies the condition type for the alarm. <i>CONDTYPE</i> is of type CondTypeLswitch .
SRVEFF	Service Effecting. This parameter identifies if the alarm condition has an effect on service. <i>SRVEFF</i> is of type ServiceEffect .
OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. <i>OCRDAT</i> is a Date.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time.
LOCN	Location. This parameter identifies the location associated with a particular alarm. <i>LOCN</i> is the AID UserAid . <i>LOCN</i> is optional.
OBSDBHVR	Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. <i>OBSDBHVR</i> is a String. <i>OBSDBHVR</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
** 001 REPT ALM LSWPORT
  "N4-3-XLAN5-NTWK1:MJ,XLANOPEN,SA,3-5,1-5-3,NEND:,,\"ERROR
0X123456768\""
;
```

REPT ALM NTWK

Name

REPT ALM NTWK: Report Alarm Network

Description

Category: Fault **Security:** Maintenance - read

Report Alarm Network is only generated by the Calix Management System to report the occurrence of alarmed events against a network it is managing.

Trouble events occurring in the CMS are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Output Format

```

SID DATE TIME
** ATAG REPT ALM NTWK
  "<NtwkAid>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>"
;

```

Output Parameters

- NtwkAid** Network Access Identifier. The name of the network which caused the event to be generated. *NtwkAid* is a String.
- NTFCNCDE** Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. *NTFCNCDE* is of type [NotificationAlm](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type for the alarm. *CONDTYPE* is of type [CondTypeNtwk](#).
- SRVEFF** Service Effecting. This parameter identifies if the alarm condition has an effect on service. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.

Output Example

```

TID-000 98-06-20 14-30-00
** 001 REPT ALM NTWK
  "PETALUMA:CR,NTWKLOSTCOMM,NSA,3-4,15-15-15"
;

```

REPT ALM ONT

Name

REPT ALM ONT: Report Alarm Optical Network Termination

Description

Category: Fault **Security:** Maintenance - read

Report Alarm ONT is generated by a C7 to report the occurrence of alarmed events against an ONT.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Related Messages:

[DLT-AVO](#)

[DLT-IG-VDS1](#)

[DLT-PROF-ONT](#)

[DLT-VCG](#)

[ED-AVO](#)

[ED-ONT](#)

[ED-RFVID](#)

[ED-VRP](#)

[ENT-GOS-ONT](#)

[ENT-ONT](#)

[ENT-RFVID](#)

[ENT-VRP](#)

[INIT-REG-ONT](#)

[REPT ALM RFVID](#)

[REPT ALM VRP](#)

[REPT RMV AVO](#)

[REPT RMV RFVID](#)

[REPT RST ONT](#)

[RMV-AVO](#)

[RMV-RFVID](#)

[RST-ONT](#)

[RTRV-ALM-AVO](#)

[RTRV-ALM-RFVID](#)

[RTRV-ALM-VRP](#)

[RTRV-COND-ONT](#)

[RTRV-COND-VRP](#)

[RTRV-IG-VDS1](#)

[RTRV-ONT-UA](#)

[RTRV-PROF-ONT](#)

[RTRV-STAT-HPNA](#)

[DLT-GOS-ONT](#)

[DLT-ONT](#)

[DLT-RFVID](#)

[DLT-VRP](#)

[ED-GOS-ONT](#)

[ED-PROF-ONT](#)

[ED-VCG](#)

[ENT-AVO](#)

[ENT-IG-VDS1](#)

[ENT-PROF-ONT](#)

[ENT-VCG](#)

[INIT-ONT-UA](#)

[REPT ALM AVO](#)

[REPT ALM VCG](#)

[REPT EVT ONT](#)

[REPT RMV ONT](#)

[REPT RST AVO](#)

[REPT RST RFVID](#)

[RMV-ONT](#)

[RST-AVO](#)

[RST-RFVID](#)

[RTRV-ALM-ONT](#)

[RTRV-ALM-VCG](#)

[RTRV-AVO](#)

[RTRV-COND-VCG](#)

[RTRV-GOS-ONT](#)

[RTRV-ONT](#)

[RTRV-PM-ONT](#)

[RTRV-RFVID](#)

[RTRV-STAT-RFR](#)

[RTRV-VCG](#)
[RTRV-VRP](#)

[RTRV-VDS1](#)
[TST-ONT-MET](#)

Output Format

```

SID DATE TIME
** ATAG REPT ALM ONT
"<OntAid>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>,[<LOCN>]:,,,
[<OBSDBHVR>]"
;
```

Output Parameters

- OntAid** The AID of the ONT. *OntAid* is the AID [OntAid](#).
- NTFCNCDE** Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. *NTFCNCDE* is of type [NotificationAlm](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type for the alarm. *CONDTYPE* is of type [CondTypeOnt](#).
- SRVEFF** Service Effecting. This parameter identifies if the alarm condition has an effect on service. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.
- LOCN** Location. This parameter identifies the location associated with a particular alarm. *LOCN* is of type [Location](#). *LOCN* is optional.
- OBSDBHVR** Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. *OBSDBHVR* is a String. *OBSDBHVR* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
** 001 REPT ALM ONT
"N6-3-11-1-22:MN, MEM, NSA, 3-4,15-15-15,FEND:,, \"ERROR
0X123456768\""
;
```

REPT ALM PON

Name

REPT ALM PON: Report Alarm Passive Optical Network

Description

Category: Fault **Security:** Maintenance - read

Report Alarm PON is generated by a C7 to report the occurrence of alarmed events against a PON port.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Output Format

```

SID DATE TIME
** ATAG REPT ALM PON

"<PonAid>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>,[<LOCN>]:,,,
[<OBSDBHVR>]"
;
```

Output Parameters

- PonAid** The AID of the PON Port. *PonAid* is the AID [FourPortLuAid](#).
- NTFCNCDE** Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. *NTFCNCDE* is of type [NotificationAlm](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type for the alarm. *CONDTYPE* is of type [CondTypePon](#).
- SRVEFF** Service Effecting. This parameter identifies if the alarm condition has an effect on service. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.
- LOCN** Location. This parameter identifies the location associated with a particular alarm. *LOCN* is of type [Location](#). *LOCN* is optional.
- OBSDBHVR** Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. *OBSDBHVR* is a String. *OBSDBHVR* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
** 001 REPT ALM PON
"N6-3-11-1:MN,LOS,SA,3-4,15-15-15,NEND:,,\"ERROR
0X123456768\""
;
```

REPT ALM PP

Name

REPT ALM PP: Report Alarm Pseudo-Port

Description

Category: Fault **Security:** Maintenance - read

Report Alarm PP is generated by a C7 to report the occurrence of alarmed events against a pseudo-port.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Related Messages:

[ACT-PROTN-VC](#)

[DLT-CRS-VC](#)

[DLT-PP](#)

[ED-CRS-VC](#)

[ED-PROF-TRF](#)

[ENT-CRS-VP](#)

[ENT-PROF-TRF](#)

[INIT-CSTAT-VP](#)

[INJ-LPBK-VP](#)

[MV-CRS-VP](#)

[OPR-CC-VP](#)

[REPT EVT VC](#)

[REPT RMV PP](#)

[RLS-CC-VC](#)

[RMV-PP](#)

[RTRV-ALM-PP](#)

[RTRV-CRS-VC](#)

[RTRV-CSTAT-VC](#)

[RTRV-PP](#)

[RTRV-VTI](#)

[ACT-PROTN-VP](#)

[DLT-CRS-VP](#)

[DLT-PROF-TRF](#)

[ED-CRS-VP](#)

[ENT-CRS-VC](#)

[ENT-PP](#)

[INIT-CSTAT-VC](#)

[INJ-LPBK-VC](#)

[MV-CRS-VC](#)

[OPR-CC-VC](#)

[REPT EVT PP](#)

[REPT EVT VP](#)

[REPT RST PP](#)

[RLS-CC-VP](#)

[RST-PP](#)

[RTRV-COND-PP](#)

[RTRV-CRS-VP](#)

[RTRV-CSTAT-VP](#)

[RTRV-PROF-TRF](#)

Output Format

```

SID DATE TIME
** ATAG REPT ALM PP

"<PpAid>:<NTFCNCDE>, <CONDTYPE>, <SRVEFF>, <OCRDAT>, <OCRTM>, [ <LOCN> ] : , ,
[ <OBSDBHVR> ] "
;
```

Output Parameters

- PpAid** Pseudo-Port Access Identifier. The address of the pseudo-port which the alarm is being raised against. *PpAid* is the AID [PpAid](#).
- NTFCNCDE** Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. *NTFCNCDE* is of type [NotificationAlm](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type for the alarm. *CONDTYPE* is of type [CondTypePp](#).
- SRVEFF** Service Effecting. This parameter identifies if the alarm condition has an effect on service. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.
- LOCN** Location. This parameter identifies the location associated with a particular alarm. *LOCN* is of type [Location](#). *LOCN* is optional.
- OBSDBHVR** Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. *OBSDBHVR* is a String. *OBSDBHVR* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
** 001 REPT ALM PP
"N3-4-4-PP1:MN,AUDITMM,NSA,3-4,15-15-15,NEND: , , \"ERROR
0X123456768\""
;
```

REPT ALM PPL

Name

REPT ALM PPL: Report Alarm Path Protection Label

Description

Category: Fault **Security:** Maintenance - read

Report Alarm PPL is generated by a C7 to report the occurrence of alarmed events against the PPL.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Related Messages:

[ENT-PPL](#)
[REPT EVT PPL](#)
[RTRV-ALM-PPL](#)
[RTRV-PPL](#)

[OPR-PROTNSTW-PPL](#)
[RLS-PROTNSTW-PPL](#)
[RTRV-COND-PPL](#)

Output Format

```
    SID DATE TIME
** ATAG REPT ALM PPL
"<PplAid>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>:,,[<OBSDBHVR>]"
;
```

Output Parameters

PplAid Address of the PPL *PplAid* is the AID [PplId1](#).

NTFCNCDE Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. *NTFCNCDE* is of type [NotificationAlm](#).

CONDTYPE Condition Type. This parameter identifies the condition type for the reported event. *CONDTYPE* is of type [CondTypePpl](#).

SRVEFF Service Effecting. This parameter identifies if the alarm condition has an effect on service. *SRVEFF* is of type [ServiceEffect](#).

OCRDAT Service Effecting. This parameter identifies if the alarm condition has an effect on service. *OCRDAT* is a Date.

OCRTM Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.

OBSDBHVR Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. *OBSDBHVR* is a String. *OBSDBHVR* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
** 001 REPT ALM PPL
```

```
"N6-3-11-1-55:MJ,LOSPPL,SA,12-28,12-00-00:,,\"ERROR
0X123456768\""
;
```

REPT ALM RFVID

Name

REPT ALM RFVID: Report Alarm Rf-Video

Description

Category: Fault **Security:** Maintenance - read

Report Alarm RFVID is generated by a C7 to report the occurrence of alarmed events against an RfVideo port.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Related Messages:

[DLT-AVO](#)
[DLT-IG-VDS1](#)
[DLT-PROF-ONT](#)
[DLT-VCG](#)
[ED-AVO](#)
[ED-ONT](#)
[ED-RFVID](#)
[ED-VRP](#)
[ENT-GOS-ONT](#)
[ENT-ONT](#)
[ENT-RFVID](#)
[ENT-VRP](#)
[INIT-REG-ONT](#)
[REPT ALM ONT](#)
[REPT ALM VRP](#)
[REPT RMV AVO](#)

[DLT-GOS-ONT](#)
[DLT-ONT](#)
[DLT-RFVID](#)
[DLT-VRP](#)
[ED-GOS-ONT](#)
[ED-PROF-ONT](#)
[ED-VCG](#)
[ENT-AVO](#)
[ENT-IG-VDS1](#)
[ENT-PROF-ONT](#)
[ENT-VCG](#)
[INIT-ONT-UA](#)
[REPT ALM AVO](#)
[REPT ALM VCG](#)
[REPT EVT ONT](#)
[REPT RMV ONT](#)

REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Output Format

```

SID DATE TIME
** ATAG REPT ALM RFVID
"<OntPortAid>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>,[<LOCN>]:,,,
[<OBSDBHVR>]"
;

```

Output Parameters

- OntPortAid** The AID of the RFVID port. *OntPortAid* is the AID [OntPortAid](#).
- NTFCNCDE** Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. *NTFCNCDE* is of type [NotificationAlm](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type for the alarm. *CONDTYPE* is of type [CondTypeRfVid](#).
- SRVEFF** Service Effecting. This parameter identifies if the alarm condition has an effect on service. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.
- LOCN** Location. This parameter identifies the location associated with a particular alarm. *LOCN* is of type [Location](#). *LOCN* is optional.
- OBSDBHVR** Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. *OBSDBHVR* is a String. *OBSDBHVR* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
** 001 REPT ALM RFVID
  "N6-3-11-1-22-1:MN,LOS,SA,3-4,15-15-15,NEND:,,\"ERROR
0X123456768\""
;
```

REPT ALM SECU

Name

REPT ALM SECU: Report Alarm Security

Description

Category: Fault **Security:** Security Administrator

Report Alarm SECU is generated by a C7 to report the occurrence of alarmed Security events.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Related Messages:

ALW-MSG-SECU	ALW-USER-SECU
CANC-CID-SECU	CANC-SES-SECU
DLT-TMPLT-SECU	DLT-USER-SECU
ED-RADIUS	ED-SYS-SECU
ED-TMPLT-SECU	ED-USER-SECU
ENT-TMPLT-SECU	ENT-USER-SECU
INH-MSG-SECU	INH-USER-SECU
REPT EVT SECU	RTRV-ALM-SECU
RTRV-COND-SECU	RTRV-RADIUS
RTRV-STATUS	RTRV-SYS-SECU
RTRV-TMPLT-SECU	RTRV-USER-SECU

Output Format

```
SID DATE TIME
** ATAG REPT ALM SECU
  "<SecuAid>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>"
;
```

Output Parameters

- SecuAid** If the target of the alarm is an AMP, the management slot AID will be included in the alarm report. If a system-level alarm, "SYS" is displayed. *SecuAid* is the AID [SecurityId](#).
- NTFCNCDE** Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. *NTFCNCDE* is of type [NotificationAlm](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type for the alarm. *CONDTYPE* is of type [CondTypeSecu](#).
- SRVEFF** Service Effecting. This parameter identifies if the alarm condition has an effect on service. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.

Output Example

```
TID-000 98-06-20 14-30-00
** 001 REPT ALM SECU
  "N3-1-MS:MN,SSHFAIL,NSA,3-4,12-20-05"
;
```

REPT ALM SHELF

Name

REPT ALM SHELF: Report Alarm Shelf

Description

Category: Fault **Security:** System Administration

Report Alarm Shelf is generated by a C7 to report the occurrence of alarmed events against the Shelf.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Related Messages:

ALW-STBY-UPGRD	DLT-ALM-SHELF
DLT-NODE	ED-DAT
ED-NODE	ED-SHELF
ED-SYS	ED-SYS-SECU
ENT-NODE	ENT-SHELF
INH-STBY-UPGRD	INIT-SYS
OPR-BAR	REPT EVT MEM
REPT EVT SHELF	RTRV-ALM-SHELF
RTRV-BAR	RTRV-COND-SHELF
RTRV-HDR	RTRV-NETYPE
RTRV-NODE	RTRV-SHELF
RTRV-SYS	RTRV-SYS-SECU

Output Format

```

SID DATE TIME
** ATAG REPT ALM SHELF
" <ShelfAid> : <NTFCNCDE> , <CONDTYPE> , <SRVEFF> , <OCRDAT> , <OCRTM> : , ,
    [ <OBSDBHVR> ] "
;

```

Output Parameters

- ShelfAid** Shelf Access Identifier. The address of the shelf which caused the event is being generated. *ShelfAid* is the AID [ShelfAid](#).
- NTFCNCDE** Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. *NTFCNCDE* is of type [NotificationAlm](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type for the reported event. *CONDTYPE* is of type [CondTypeShelf](#).
- SRVEFF** Service Effecting. This parameter identifies if the alarm condition has an effect on service. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.
- OBSDBHVR** Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. *OBSDBHVR* is a String. *OBSDBHVR* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
** 001 REPT ALM SHELF
" N1-2:MN,LOF,NSA,3-4,15-15-15: , , \ "ERROR 0X123456768\ "
;

```

REPT ALM SIP

Name

REPT ALM SIP: Report Alarm Session Initiation Protocol

Description

Category: Fault **Security:** Maintenance - full

Report Alarm SIP is generated by a C7 to report the occurrence of alarmed events against a SIP Group.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Output Format

```

SID DATE TIME
** ATAG REPT ALM SIP
"<IgAid>:<NTFCNCDE>, <CONDTYPE>, <SRVEFF>, <OCRDAT>, <OCRTM>: , , <OBSDBHVR> "
;
```

Output Parameters

IgAid *IgAid* is the AID [IgAid](#).

NTFCNCDE *NTFCNCDE* is of type [NotificationAlm](#).

CONDTYPE *CONDTYPE* is of type [CondTypeSipIg](#).

SRVEFF *SRVEFF* is of type [ServiceEffect](#).

OCRDAT *OCRDAT* is a Date.

OCRTM *OCRTM* is a Time.

OBSDBHVR *OBSDBHVR* is a String.

Output Example

```

TID-000 98-06-20 14-30-00
** 001 REPT ALM SIP
"N1-1-IG5:MJ,SIPINVCFG,SA,3-22,14-36-12: , , \"PRICFGURL\" "
;
```

REPT ALM SIPVCG

Name

REPT ALM SIPVCG: Report Alarm SIPVCG

Description

Category: Fault **Security:** Maintenance - read

Report Alarm SIPVCG is generated by a C7 to report the occurrence of alarmed events against a SIPVCG Group.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Output Format

```

SID DATE TIME
** ATAG REPT ALM SIPVCG
  "<IgAid>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>"
;
```

Output Parameters

IgAid *IgAid* is the AID [IgAid](#).

NTFCNCDE *NTFCNCDE* is of type [NotificationAlm](#).

CONDTYPE *CONDTYPE* is of type [CondTypeSipVcg](#).

SRVEFF *SRVEFF* is of type [ServiceEffect](#).

OCRDAT *OCRDAT* is a Date.

OCRTM *OCRTM* is a Time.

Output Example

```

TID-000 98-06-20 14-30-00
** 001 REPT ALM SIPVCG
  "N1-2-IG3:MJ,CALLPROCLU,SA,3-22,14-36-12"
;
```

REPT ALM T0

Name

REPT ALM T0: Report Alarm DS0 Facility

Description

Category: Fault **Security:** Maintenance - read

Report Alarm T0 is generated by a C7 to report the occurrence of alarmed events against the T0.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Related Messages:

[DLT-CRS-T0](#)
[ED-T0](#)
[ENT-T0](#)
[REPT RMV T0](#)
[RMV-T0](#)
[RTRV-ALM-T0](#)
[RTRV-CRS-T0](#)
[RTRV-T0](#)

[DLT-T0](#)
[ENT-CRS-T0](#)
[REPT EVT T0](#)
[REPT RST T0](#)
[RST-T0](#)
[RTRV-COND-T0](#)
[RTRV-CSTAT-T0](#)

Output Format

```

SID DATE TIME
** ATAG REPT ALM T0
"<Ds0Aid>:<NTFCNCDE>, <CONDTYPE>, <SRVEFF>, <OCRDAT>, <OCRTM>, [ <LOCN> ] : , ,
[ <OBSDBHVR> ] "
;
```

Output Parameters

Ds0Aid T0 Port Access Identifier. The address of the T0 port which the alarm is being raised against. *Ds0Aid* is the AID [TwentyFourPortLuAid](#).

NTFCNCDE Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. *NTFCNCDE* is of type [NotificationAlm](#).

CONDTYPE	Condition Type. This parameter identifies the condition type for the alarm. <i>CONDTYPE</i> is of type CondTypeT0Alm .
SRVEFF	Service Effecting. This parameter identifies if the alarm condition has an effect on service. <i>SRVEFF</i> is of type ServiceEffect .
OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. <i>OCRDAT</i> is a Date.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time.
LOCN	Location. This parameter identifies the location associated with a particular alarm. <i>LOCN</i> is of type Location . <i>LOCN</i> is optional.
OBSDBHVR	Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. <i>OBSDBHVR</i> is a String. <i>OBSDBHVR</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
** 001 REPT ALM T0
"N4-4-4-4:MN,LOS,SA,3-4,15-15-15,FEND:,,\"ERROR
0X123456768\""
;
```

REPT ALM T1

Name

REPT ALM T1: Report Alarm Digital Signal 1

Description

Category: Fault **Security:** Maintenance - read

Report Alarm T1 is generated by a C7 to report the occurrence of alarmed events against a T1 port.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Related Messages:

[DLT-AP-T1](#)

[DLT-CRS-T1](#)

DLT-GOS-T1	DLT-T1
ED-GOS-T1	ED-T1
ENT-AP-T1	ENT-CRS-T1
ENT-GOS-T1	ENT-T1
INIT-REG-T1	OPR-LPBK-T1
REPT EVT T1	REPT RMV T1
REPT RST T1	RLS-LPBK-T1
RMV-T1	RST-T1
RTRV-ALM-T1	RTRV-COND-T1
RTRV-CRS-T1	RTRV-GOS-T1
RTRV-PM-T1	RTRV-T1

Output Format

```

SID DATE TIME
** ATAG REPT ALM T1

"<Ds1Aid>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>,[<LOCN>]:,,,
[<OBSDBHVR>]"
;

```

Output Parameters

Ds1Aid	T1 Port Access Identifier. The address of the T1 port which the alarm is being raised against. <i>Ds1Aid</i> is the AID TwelvePortLuAid .
NTFCNCDE	Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. <i>NTFCNCDE</i> is of type NotificationAlm .
CONDTYPE	Condition Type. This parameter identifies the condition type for the alarm. <i>CONDTYPE</i> is of type CondTypeT1 .
SRVEFF	Service Effecting. This parameter identifies if the alarm condition has an effect on service. <i>SRVEFF</i> is of type ServiceEffect .
OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. <i>OCRDAT</i> is a Date.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time.
LOCN	Location. This parameter identifies the location associated with a particular alarm. <i>LOCN</i> is of type Location . <i>LOCN</i> is optional.
OBSDBHVR	Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. <i>OBSDBHVR</i> is a String. <i>OBSDBHVR</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
** 001 REPT ALM T1
"N4-4-4-4:MN,LOS,SA,3-4,15-15-15,FEND:,,\"ERROR
0X123456768\""
;

```

REPT ALM T1TG

Name

REPT ALM T1TG: Report Alarm T1 Transport Group

Description

Category: Fault **Security:** Maintenance - read

Report Alarm T1TG is generated by a C7 to report the occurrence of alarmed events against the EOC/TMC data links.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Related Messages:

ALW-Swdx-GR303	ALW-Swdx-T1TG
DLT-CRS-T0	DLT-GR303
DLT-GR8	DLT-IG-DS1
DLT-T1TG	ED-GR303
ED-GR8	ENT-CRS-T0
ENT-GR303	ENT-GR8
ENT-IG-DS1	ENT-T1TG
INH-Swdx-GR303	INH-Swdx-T1TG
REPT ALM GR303	REPT EVT GR303
REPT EVT T1TG	REPT SW GR303
REPT SW T1TG	RTRV-ALM-GR303
RTRV-ALM-T1TG	RTRV-COND-GR303
RTRV-COND-T1TG	RTRV-CRS-T0
RTRV-DLSTAT-GR303	RTRV-DLSTAT-T1TG
RTRV-GR303	RTRV-GR8
RTRV-IG-DS1	RTRV-T1TG
SW-DX-GR303	SW-DX-T1TG

Output Format

```

    SID DATE TIME
** ATAG REPT ALM T1TG
"<DataLinkSwAid>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>:,,,
    [<OBSDBHVR>]"
;

```

Output Parameters

DataLinkSwAid	T1TG Data Link Access Identifier. The address of the EOC/TMC data link which the alarm is being raised against. <i>DataLinkSwAid</i> is the AID IgLinkSwAid .
NTFCNCDE	Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. <i>NTFCNCDE</i> is of type NotificationAlm .
CONDTYPE	Condition Type. This parameter identifies the condition type for the alarm. <i>CONDTYPE</i> is of type CondTypeIg .
SRVEFF	Service Effecting. This parameter identifies if the alarm condition has an effect on service. <i>SRVEFF</i> is of type ServiceEffect .
OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. <i>OCRDAT</i> is a Date.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time.
OBSDBHVR	Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. <i>OBSDBHVR</i> is a String. <i>OBSDBHVR</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
** 001 REPT ALM T1TG
"N7-3-IG5-EOC:CR,EOCDUPLEX,NSA,6-6,8-18-19:,,\"ERROR
0X123456768\""
;

```

REPT ALM T3

Name

REPT ALM T3: Report Alarm Digital Signal 3

Description

Category: Fault **Security:** Maintenance - read

Report Alarm T3 is generated by a C7 to report the occurrence of alarmed events against a T3 port.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Related Messages:

DLT-GOS-T3	DLT-T3
ED-GOS-T3	ED-T3
ENT-GOS-T3	ENT-T3
INIT-REG-T3	OPR-LPBK-T3
REPT EVT T3	REPT RMV T3
REPT RST T3	RLS-LPBK-T3
RMV-T3	RST-T3
RTRV-ALM-T3	RTRV-COND-T3
RTRV-GOS-T3	RTRV-PM-T3
RTRV-T3	

Output Format

```

SID DATE TIME
** ATAG REPT ALM T3
"<Ds3Aid>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>,[<LOCN>]:,,,
[<OBSDBHVR>]"
;
```

Output Parameters

Ds3Aid	T3 Port Access Identifier. The address of the T3 port which the alarm is being raised against. <i>Ds3Aid</i> is the AID T3Aid .
NTFCNCDE	Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. <i>NTFCNCDE</i> is of type NotificationAlm .
CONDTYPE	Condition Type. This parameter identifies the condition type for the alarm. <i>CONDTYPE</i> is of type CondTypeT3 .
SRVEFF	Service Effecting. This parameter identifies if the alarm condition has an effect on service. <i>SRVEFF</i> is of type ServiceEffect .
OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. <i>OCRDAT</i> is a Date.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time.
LOCN	Location. This parameter identifies the location associated with a particular alarm. <i>LOCN</i> is of type Location . <i>LOCN</i> is optional.
OBSDBHVR	Observed Behavior. This parameter indicates the observed behavior which caused a

trouble condition to be reported. *OBSDBHVR* is a String. *OBSDBHVR* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
** 001 REPT ALM T3
  "N4-4-4-4:MN,LOF,NSA,3-4,15-15-15,FEND: , , \"ERROR
0x123456768\""
;
```

REPT ALM TMG

Name

REPT ALM TMG: Report Alarm Timing

Description

Category: Fault **Security:** Maintenance - read

Report Alarm Timing is generated by a C7 to report the occurrence of alarmed events against the timing.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Related Messages:

[ED-TMG](#)
[REPT EVT TMG](#)
[RTRV-ALM-TMG](#)
[RTRV-TMG](#)

[OPR-SYNCNSW](#)
[RLS-SYNCNSW](#)
[RTRV-COND-TMG](#)

Output Format

```
SID DATE TIME
** ATAG REPT ALM TMG
  "<ShelfAid>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>: ,
  [<OBSDBHVR>] "
;
```

Output Parameters

ShelfAid	Shelf Access Identifier. The address of the shelf which the alarm is being raised against. <i>ShelfAid</i> is the AID ShelfAid .
NTFCNCDE	Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. <i>NTFCNCDE</i> is of type NotificationAlm .
CONDTYPE	Condition Type. This parameter identifies the condition type for the alarm. <i>CONDTYPE</i> is of type CondTypeTmg .
SRVEFF	Service Effecting. This parameter identifies if the alarm condition has an effect on service. <i>SRVEFF</i> is of type ServiceEffect .
OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. <i>OCRDAT</i> is a Date.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time.
OBSDBHVR	Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. <i>OBSDBHVR</i> is a String. <i>OBSDBHVR</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
** 001 REPT ALM TMG
"N2-2:MN,CCBPV,NSA,3-4,15-15-15:,,\ "ERROR 0X123456768\ "
;
```

REPT ALM VB

Name

REPT ALM VB: Report Alarm Virtual Bridge

Description

Category: Fault **Security:** Maintenance - read

Report Alarm Virtual Bridge is generated by a C7 to report the occurrence of alarmed events against a Virtual Bridge.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Related Messages:

DLT-CVIDREG	DLT-IGMP-JOIN
DLT-MACHOST	DLT-VB
DLT-VBPORT	DLT-VLAN-VBPORT
DLT-VR	DLT-VRPORT
ED-CVIDREG	ED-IGMP
ED-MACHOST	ED-VB
ED-VBPORT	ED-VLAN-VBPORT
ED-VR	ENT-CVIDREG
ENT-IGMP-JOIN	ENT-MACHOST
ENT-VB	ENT-VBPORT
ENT-VLAN-VBPORT	ENT-VR
ENT-VRPORT	REPT ALM VR
REPT EVT VB	REPT EVT VR
RTRV-ALM-VB	RTRV-ALM-VR
RTRV-CVIDREG	RTRV-IGMP
RTRV-IGMP-JOIN	RTRV-MACHOST
RTRV-VB	RTRV-VBPORT
RTRV-VLAN-VBPORT	RTRV-VR
RTRV-VRPORT	

Output Format

```

SID DATE TIME
** ATAG REPT ALM VB
"<VbAid>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>,[<LOCN>]:,,,
[<OBSDBHVR>]"
;
```

Output Parameters

VbAid *VbAid* is the AID [VbAid](#).

NTFCNCDE Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. *NTFCNCDE* is of type [NotificationAlm](#).

CONDTYPE Condition Type. This parameter identifies the condition type for the alarm. *CONDTYPE* is of type [CondTypeVb](#).

SRVEFF Service Effecting. This parameter identifies if the alarm condition has an effect on service. *SRVEFF* is of type [ServiceEffect](#).

OCRDAT Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.

OCRTM Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.

LOCN Location. This parameter identifies the location associated with a particular alarm. *LOCN*

is of type [Location](#). *LOCN* is optional.

OBSDBHVR Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. *OBSDBHVR* is a String. *OBSDBHVR* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
** 001 REPT ALM VB
"N1-2-VB1:MN,LOS,SA,3-4,15-15-15,NEND:,,\"ERROR
0X123456768\""
;
```

REPT ALM VCG

Name

REPT ALM VCG: Report Alarm Voice Concentration Group

Description

Category: Fault **Security:** Maintenance - read

Report Alarm VCG is generated by a C7 to report the occurrence of alarmed events against a Voice Concentration Group.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Related Messages:

[DLT-AVO](#)
[DLT-IG-VDS1](#)
[DLT-PROF-ONT](#)
[DLT-VCG](#)
[ED-AVQ](#)
[ED-ONT](#)
[ED-RFVID](#)
[ED-VRP](#)
[ENT-GOS-ONT](#)

[DLT-GOS-ONT](#)
[DLT-ONT](#)
[DLT-RFVID](#)
[DLT-VRP](#)
[ED-GOS-ONT](#)
[ED-PROF-ONT](#)
[ED-VCG](#)
[ENT-AVO](#)
[ENT-IG-VDS1](#)

ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VRP	REPT EVT ONT
REPT RMV AVO	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Output Format

```

SID DATE TIME
** ATAG REPT ALM VCG
"<IgAid>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>"
;
```

Output Parameters

- IgAid** The Interface Group AID. *IgAid* is the AID [IgAid](#).
- NTFCNCDE** Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. *NTFCNCDE* is of type [NotificationAlm](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type for the alarm. *CONDTYPE* is of type [CondTypeVcg](#).
- SRVEFF** Service Effecting. This parameter identifies if the alarm condition has an effect on service. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.

Output Example

```
TID-000 98-06-20 14-30-00
** 001 REPT ALM VCG
  "N6-3-IG3:MN, TRAFTHR, SA, 3-4, 15-15-15"
;
```

REPT ALM VR

Name

REPT ALM VR: Report Alarm Virtual Router

Description

Category: Fault **Security:** Maintenance - read

Report Alarm Virtual Router is generated by a C7 to report the occurrence of alarmed events against a Virtual Router.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Related Messages:

DLT-CVIDREG	DLT-IGMP-JOIN
DLT-MACHOST	DLT-VB
DLT-VBPORT	DLT-VLAN-VBPORT
DLT-VR	DLT-VRPORT
ED-CVIDREG	ED-IGMP
ED-MACHOST	ED-VB
ED-VBPORT	ED-VLAN-VBPORT
ED-VR	ENT-CVIDREG
ENT-IGMP-JOIN	ENT-MACHOST
ENT-VB	ENT-VBPORT
ENT-VLAN-VBPORT	ENT-VR
ENT-VRPORT	REPT ALM VB
REPT EVT VB	REPT EVT VR
RTRV-ALM-VB	RTRV-ALM-VR

[RTRV-CVIDREG](#)
[RTRV-IGMP-JOIN](#)
[RTRV-VB](#)
[RTRV-VLAN-VBPORT](#)
[RTRV-VRPORT](#)

[RTRV-IGMP](#)
[RTRV-MACHOST](#)
[RTRV-VBPORT](#)
[RTRV-VR](#)

Output Format

```
SID DATE TIME
** ATAG REPT ALM VR
"<VrAid>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>,[<LOCN>]:,,,
[<OBSDBHVR>]"
;
```

Output Parameters

- VrAid** *VrAid* is the AID [VrAid](#).
- NTFCNCDE** Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. *NTFCNCDE* is of type [NotificationAlm](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type for the alarm. *CONDTYPE* is of type [CondTypeVr](#).
- SRVEFF** Service Effecting. This parameter identifies if the alarm condition has an effect on service. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.
- LOCN** Location. This parameter identifies the location associated with a particular alarm. *LOCN* is of type [Location](#). *LOCN* is optional.
- OBSDBHVR** Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. *OBSDBHVR* is a String. *OBSDBHVR* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
** 001 REPT ALM VR
"N1-2-VR1:MN,LOS,SA,3-4,15-15-15,NEND:,,\"ERROR 0X12345678\""
;
```

REPT ALM VRP

Name

REPT ALM VRP: Report Alarm Video Return Path

Description

Category: Fault **Security:** Maintenance - read

Report Alarm Video Return Path is generated by a C7 to report the occurrence of alarmed events against the Video Return Path.

Trouble events occurring in the NE are classified as alarmed or non-alarmed events. In general, an alarmed event causes a standing condition and has immediate or potential impact on the operation or performance of the entity. Some form of maintenance effort is required to restore normal operation or performance of the entity after the event has occurred. A non-alarmed event is not classified as an alarmed event.

Defined in GR-833.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT EVT ONT
REPT RMV AVO	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT

[RTRV-IG-VDS1](#)
[RTRV-ONT-UA](#)
[RTRV-PROF-ONT](#)
[RTRV-STAT-HPNA](#)
[RTRV-VCG](#)
[RTRV-VRP](#)

[RTRV-ONT](#)
[RTRV-PM-ONT](#)
[RTRV-RFVID](#)
[RTRV-STAT-RFR](#)
[RTRV-VDS1](#)
[TST-ONT-MET](#)

Output Format

```
SID DATE TIME
** ATAG REPT ALM VRP
"<VrpAid>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>:,,[<OBSDBHVR>] "
;"
```

Output Parameters

- VrpAid** Video Return Path Access Identifier *VrpAid* is the AID [VrpAid](#).
- NTFCNCDE** Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. *NTFCNCDE* is of type [NotificationAlm](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type for the alarm. *CONDTYPE* is of type [CondTypeVrp](#).
- SRVEFF** Service Effecting. This parameter identifies if the alarm condition has an effect on service. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.
- OCRTM** *OCRTM* is a Time.
- OBSDBHVR** Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. *OBSDBHVR* is a String. *OBSDBHVR* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
** 001 REPT ALM VRP
"N6-3-11-1-1-VRP:MN,FREQMISMATCH,SA,3-4,15-15-15:,,\"ERROR
0X123456768\""
;"
```

REPT EVT <OCN>

Name

REPT EVT <[OCN](#)>: Report Event (OC12, OC3, OC48)

Description

Category: Fault **Security:** Maintenance - read

Report Event OC12 is generated by a C7 to report the occurrence of non-alarm events against OC12 ports. Trouble events occurring in the C7 are classified as alarm or non-alarm events. Designation of specific trouble events as alarm or non-alarm events is explained in GR-474 and FR-475.

The event being reported may be the change of the status or the occurrence of an irregularity, which by itself is not severe enough to warrant an alarm notification. One example of this is a performance threshold crossing. This message may also be used to report the recovery from off-normal or trouble conditions that were reported initially via REPT EVT OC12. This is done by using the CONDTYPE sent by the original event report and using the value CL for CONDEFF.

Defined in GR-833.

Related Messages:

DLT-<OCN>	DLT-FFP-<OCN>
DLT-GOS-<OCN>	ED-<OCN>
ED-FFP-<OCN>	ED-GOS-<OCN>
ENT-<OCN>	ENT-FFP-<OCN>
ENT-GOS-<OCN>	INIT-REG-<OCN>
OPR-LPBK-<OCN>	OPR-PROTNSW-<OCN>
REPT ALM <OCN>	REPT RMV <OCN>
REPT RST <OCN>	RLS-LPBK-<OCN>
RLS-PROTNSW-<OCN>	RMV-<OCN>
RST-<OCN>	RTRV-<OCN>
RTRV-ALM-<OCN>	RTRV-COND-<OCN>
RTRV-FFP-<OCN>	RTRV-GOS-<OCN>
RTRV-PM-<OCN>	

Output Format

```

SID DATE TIME
A ATAG REPT EVT <OCN>
"<OcNAid>:<CONDTYPE>,<CONDEFF>,<OCRDAT>,<OCRTM>,[<LOCN>],,[<MONVAL>],
[<THLEV>],[<TMPER>]"
;
```

Output Parameters

OcNAid OC12 Port Access Identifier. The address of the OC12 port which caused the event is being generated. *OcNAid* is the AID [FourPortLuAndRapAid](#).

CONDTYPE Condition Type. This parameter identifies the condition type for the reported event. *CONDTYPE* is of type [CondTypeOcN](#).

CONDEFF	Condition Effect. This parameter indicates the effect of the event on the C7. <i>CONDEFF</i> is of type ConditionEffect .
OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. <i>OCRDAT</i> is a Date.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time.
LOCN	Location. This parameter identifies the location associated with a particular alarm. <i>LOCN</i> is of type Location . <i>LOCN</i> is optional.
MONVAL	Monitored Value. This parameter is the measured value of a monitored parameter, which resulted in the threshold for a monitored parameter exceeding the defined or specified threshold level. <i>MONVAL</i> is a Integer. <i>MONVAL</i> is optional.
THLEV	Threshold Level. This parameter is the threshold level for the monitored parameter. <i>THLEV</i> is a Integer. <i>THLEV</i> is optional.
TMPER	Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. <i>TMPER</i> is of type PMPPeriod . <i>TMPER</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT EVT OC12
"N5-3-5-2:T-LBCN,TC,12-28,12-00-00,FEND,,35033,35000,15-MIN:"
;
```

REPT EVT <STS>

Name

REPT EVT <[STS](#)>: Report Event (STS1, STS12C, STS3C, STS48C)

Description

Category: Fault **Security:** Maintenance - read

Report Event STS is generated by a C7 to report the occurrence of non-alarmed events against STS facilities. Trouble events occurring in the C7 are classified as alarmed or non-alarmed events. Designation of specific trouble events as alarmed or non-alarmed events is explained in GR-474 and FR-475.

The event being reported may be the change of the status or the occurrence of an irregularity, which by itself is not severe enough to warrant an alarm notification. One example of this is a performance threshold crossing.

This message may also be used to report the recovery from off-normal or trouble conditions that were

reported initially via REPT EVT STS. This is done by using the CONDTYPE sent by the original event report and using the value CL for CONDEFF.

This message may also be used to report the first occurrence of a loopback condition on a STS. The way this would be accomplished is by using STS1 as the second modifier in the command (e.g., REPT EVT STS) with the CONDTYPE parameter indicating the presence of a loopback.

Defined in GR-833.

Related Messages:

[DLT-<STSN>](#)

[DLT-GOS-<STSN>](#)

[ED-CRS-<STSN>](#)

[ENT-<STSN>](#)

[ENT-GOS-<STSN>](#)

[OPR-PROTNSW-<STSN>](#)

[REPT RMV <STSN>](#)

[RLS-PROTNSW-<STSN>](#)

[RST-<STSN>](#)

[RTRV-ALM-<STSN>](#)

[RTRV-CRS-<STSN>](#)

[RTRV-PM-<STSN>](#)

[DLT-CRS-<STSN>](#)

[ED-<STSN>](#)

[ED-GOS-<STSN>](#)

[ENT-CRS-<STSN>](#)

[INIT-REG-<STSN>](#)

[REPT ALM <STSN>](#)

[REPT RST <STSN>](#)

[RMV-<STSN>](#)

[RTRV-<STSN>](#)

[RTRV-COND-<STSN>](#)

[RTRV-GOS-<STSN>](#)

Output Format

```

SID DATE TIME
A ATAG REPT EVT <STSN>
"<StsAid>:<CONDTYPE>,<CONDEFF>,<OCRDAT>,<OCRTM>,[<LOCN>],,[<MONVAL>],
[<THLEV>],[<TMPER>]"
;
```

Output Parameters

StsAid STS Path Access Identifier. The address of the STS path which the alarm is being raised against. *StsAid* is the AID [StsAid](#).

CONDTYPE Condition Type. This parameter identifies the condition type for the alarm. *CONDTYPE* is of type [CondTypeStsEvt](#).

CONDEFF Condition Effect. This parameter indicates the effect of the event on the C7. *CONDEFF* is of type [ConditionEffect](#).

OCRDAT Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.

OCRTM Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.

LOCN Location. This parameter identifies the location associated with a particular alarm. *LOCN* is of type [Location](#). *LOCN* is optional.

MONVAL Monitored Value. This parameter is the measured value of a monitored parameter, which

resulted in the threshold for a monitored parameter exceeding the defined or specified threshold level. *MONVAL* is a Integer. *MONVAL* is optional.

THLEV Threshold Level. This parameter is the threshold level for the monitored parameter. *THLEV* is a Integer. *THLEV* is optional.

TMPER Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. *TMPER* is of type [PMPeriod](#). *TMPER* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
A 001 REPT EVT STS1
  "N6-3-4-1-1-1:T-CVP,TC,12-28,12-00-00,FEND,,356,350,15-MIN:"
;
```

REPT EVT ADSL

Name

REPT EVT ADSL: Report Event Asymmetric Digital Subscriber Line

Description

Category: Fault **Security:** Maintenance - read

Report Event ADSL is generated by a C7 to report the occurrence of non-alarmed events against the ADSL port. Trouble events occurring in the C7 are classified as alarmed or non-alarmed events. Designation of specific trouble events as alarmed or non-alarmed events is explained in GR-474 and FR-475.

The event being reported may be the change of the status or the occurrence of an irregularity, which by itself is not severe enough to warrant an alarm notification. One example of this is a performance threshold crossing.

This message may also be used to report the recovery from off-normal or trouble conditions that were reported initially via REPT EVT ADSL. This is done by using the CONDTYPE sent by the original event report and using the value CL for CONDEFF.

Defined in GR-833.

Related Messages:

[DLT-ADSL](#)

[DLT-TMPLT-ADSL](#)

[ED-GOS-ADSL](#)

[DLT-GOS-ADSL](#)

[ED-ADSL](#)

[ENT-ADSL](#)

[ENT-GOS-ADSL](#)
[INIT-ADSL](#)
[INIT-REG-ADSL](#)
[REPT RMV ADSL](#)
[RMV-ADSL](#)
[RTRV-ADSL](#)
[RTRV-COND-ADSL](#)
[RTRV-GOS-ADSL](#)
[RTRV-TMPLT-ADSL](#)

[ENT-TMPLT-ADSL](#)
[INIT-PWR-ADSL](#)
[REPT ALM ADSL](#)
[REPT RST ADSL](#)
[RST-ADSL](#)
[RTRV-ALM-ADSL](#)
[RTRV-CSTAT-ADSL](#)
[RTRV-PM-ADSL](#)

Output Format

```

SID DATE TIME
A ATAG REPT EVT ADSL

"<AdslAid>:<CONDTYPE>, <CONDEFF>, <OCRDAT>, <OCRTM>, [ <LOCN> ] , , [ <MONVAL> ] ,
[ <THLEV> ], [ <TMPER> ] : , , [ <OBSDBHVR> ] "
;
```

Output Parameters

AdslAid	ADSL Access Identifier. The address of the ADSL port which caused the event to be generated. <i>AdslAid</i> is the AID TwentyFourPortLuAid .
CONDTYPE	Condition Type. This parameter identifies the condition type for the reported event. <i>CONDTYPE</i> is of type CondTypeDslEvt .
CONDEFF	Condition Effect. This parameter indicates the effect of the event on the C7. <i>CONDEFF</i> is of type ConditionEffect .
OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. <i>OCRDAT</i> is a Date.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time.
LOCN	Location. This parameter identifies the location associated with a particular alarm. <i>LOCN</i> is of type Location . <i>LOCN</i> is optional.
MONVAL	Monitored Value. This parameter is the measured value of a monitored parameter, which resulted in the threshold for a monitored parameter exceeding the defined or specified threshold level. <i>MONVAL</i> is a Integer. <i>MONVAL</i> is optional.
THLEV	Threshold Level. This parameter is the threshold level for the monitored parameter. <i>THLEV</i> is a Integer. <i>THLEV</i> is optional.
TMPER	Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. <i>TMPER</i> is of type PMPPeriod . <i>TMPER</i> is optional.
OBSDBHVR	Observed Behavior. The observed behavior or other information relevant to the event reported. <i>OBSDBHVR</i> is a String. <i>OBSDBHVR</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT EVT ADSL
"N5-3-2-1:T-CVF-L,TC,12-28,12-00-00,FEND,,85,96,15-MIN:,,,
  \"ERROR 0X123456768\""
;

```

REPT EVT AP

Name

REPT EVT AP: Report Event ATM Resource Port

Description

Category: Fault **Security:** Maintenance - read

Report Event AP is generated by a C7 to report the occurrence of non-alarmed events against the ATM Resource port. Trouble events occurring in the C7 are classified as alarmed or non-alarmed events. Designation of specific trouble events as alarmed or non-alarmed events is explained in GR-474 and FR-475.

The event being reported may be the change of the status or the occurrence of an irregularity, which by itself is not severe enough to warrant an alarm notification. One example of this is a performance threshold crossing.

This message may also be used to report the recovery from off-normal or trouble conditions that were reported initially via REPT EVT ADSL. This is done by using the CONDTYPE sent by the original event report and using the value CL for CONDEFF.

Defined in GR-833.

Related Messages:

[DLT-AP](#)

[DLT-AP-T1](#)

[DLT-GOS-AP](#)

[DLT-GOS-IMA](#)

[DLT-GOS-IMALINK](#)

[DLT-IMA](#)

[DLT-IMA-PORT](#)

[ED-AP](#)

[ED-GOS-AP](#)

[ED-GOS-IMA](#)

[ED-GOS-IMALINK](#)

[ED-IMA](#)

[ENT-AP](#)

[ENT-AP-T1](#)

[ENT-GOS-AP](#)

[ENT-GOS-IMA](#)

[ENT-GOS-IMALINK](#)

[ENT-IMA](#)

[ENT-IMA-PORT](#)

[INIT-REG-AP](#)

[INIT-REG-IMA](#)

[INIT-REG-IMALINK](#)

[REPT ALM AP](#)

[REPT ALM IMA](#)

[REPT ALM IMALINK](#)
[REPT EVT IMALINK](#)
[REPT RST AP](#)
[RMV-IMA](#)
[RST-IMA](#)
[RTRV-ALM-IMA](#)
[RTRV-AP](#)
[RTRV-COND-IMA](#)
[RTRV-GOS-IMA](#)
[RTRV-IMA](#)
[RTRV-PM-IMA](#)

[REPT EVT IMA](#)
[REPT RMV AP](#)
[RMV-AP](#)
[RST-AP](#)
[RTRV-ALM-AP](#)
[RTRV-ALM-IMALINK](#)
[RTRV-COND-AP](#)
[RTRV-GOS-AP](#)
[RTRV-GOS-IMALINK](#)
[RTRV-PM-AP](#)
[RTRV-PM-IMALINK](#)

Output Format

```

SID DATE TIME
A ATAG REPT EVT AP

"<ApAid>:<CONDTYPE>,<CONDEFF>,<OCRDAT>,<OCRTM>,[<LOCN>],,[<MONVAL>],
[<THLEV>],[<TMPER>]"
;
```

Output Parameters

ApAid *ApAid* is the AID [AtmRscPortAid](#).

CONDTYPE Condition Type. This parameter identifies the condition type for the reported event. *CONDTYPE* is of type [CondTypeAp](#).

CONDEFF Condition Effect. This parameter indicates the effect of the event on the C7. *CONDEFF* is of type [ConditionEffect](#).

OCRDAT Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.

OCRTM Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.

LOCN Location. This parameter identifies the location associated with a particular alarm. *LOCN* is of type [Location](#). *LOCN* is optional.

MONVAL Monitored Value. This parameter is the measured value of a monitored parameter, which resulted in the threshold for a monitored parameter exceeding the defined or specified threshold level. *MONVAL* is a Integer. *MONVAL* is optional.

THLEV Threshold Level. This parameter is the threshold level for the monitored parameter. *THLEV* is a Integer. *THLEV* is optional.

TMPER Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. *TMPER* is of type [PMPeriod](#). *TMPER* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT EVT AP
;
```

"N3-1-3-1:T-UAS-IMA,TC,12-28,12-00-00,FEND,,332,330,1-DAY:"
;

REPT EVT BWCLINK

Name

REPT EVT BWCLINK: Report Event Link Bandwidth Constraint

Description

Category: Fault **Security:** Maintenance - read

Report Event BWCLINK is generated by a C7 to report the occurrence of non-alarmed events against a Link Bandwidth Constraint. Trouble events occurring in the C7 are classified as alarmed or non-alarmed events. Designation of specific trouble events as alarmed or non-alarmed events is explained in GR-474 and FR-475.

The event being reported may be the change of the status or the occurrence of an irregularity, which by itself is not severe enough to warrant an alarm notification. One example of this is a performance threshold crossing.

This message may also be used to report the recovery from off-normal or trouble conditions that were reported initially via REPT EVT BWCLINK. This is done by using the CONDTYPE sent by the original event report and using the value CL for CONDEFF.

Defined in GR-833.

Output Format

```
    SID DATE TIME
A  ATAG REPT EVT BWCLINK
    "<LinkBwcAid>:<CONDTYPE>, <CONDEFF>, <OCRDAT>, <OCRTM>, <LOCN> "
;
```

Output Parameters

LinkBwcAid Link Bandwidth Constraint Access Identifier. *LinkBwcAid* is the AID [LinkBwcAid](#).

CONDTYPE Condition Type. This parameter identifies the condition type for the reported event. *CONDTYPE* is of type [CondTypeBwcLink](#).

CONDEFF Condition Effect. This parameter indicates the effect of the event on the C7. *CONDEFF* is of type [ConditionEffect](#).

OCRDAT Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.

OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time.
LOCN	Location. This parameter identifies the location associated with a particular event. <i>LOCN</i> is of type Location .

Output Example

```
TID-000 98-06-20 14-30-00
A 001 REPT EVT BWLINK
"N2-4-18-1-BWC1:RXBWCTHR,SC,12-28,12-00-00,NEND: "
;
```

REPT EVT CONT

Name

REPT EVT CONT: Report Event Control

Description

Category: Fault **Security:** Maintenance - read

Report Event External Control is generated by a C7 to report the occurrence of non-alarmed events against external controls. Trouble events occurring in the C7 are classified as alarmed or non-alarmed events. Designation of specific trouble events as alarmed or non-alarmed events is explained in GR-474 and FR-475.

The event being reported may be the change of the status or the occurrence of an irregularity, which by itself is not severe enough to warrant an alarm notification. One example of this is a performance threshold crossing.

This message may also be used to report the recovery from off-normal or trouble conditions that were reported initially via REPT EVT CONT. This is done by using the CONDTYPE sent by the original event report and using the value CL for CONDEFF.

Defined in GR-833.

Related Messages:

[OPR-EXT-CONT](#)
[RLS-EXT-CONT](#)
[RTRV-ATTR-CONT](#)
[RTRV-COND-ENV](#)
[SET-ATTR-CONT](#)

[REPT ALM ENV](#)
[RTRV-ALM-ENV](#)
[RTRV-ATTR-ENV](#)
[RTRV-EXT-CONT](#)
[SET-ATTR-ENV](#)

Output Format

```

SID DATE TIME
A ATAG REPT EVT CONT
  "<ExtContAid>:<CONDTYPE>, <CONDEFF>, <OCRDAT>, <OCRTM>"
;

```

Output Parameters

- ExtContAid** External Control Access Identifier. The address of the external control which caused the event to be generated. *ExtContAid* is the AID [ExtControlAid](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type for the reported event. *CONDTYPE* is of type [CondTypeContEvt](#).
- CONDEFF** Condition Effect. This parameter indicates the effect of the event on the C7. *CONDEFF* is of type [ConditionEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT EVT CONT
  "N5-1:HEAT,SC,12-28,12-00-00:"
;

```

REPT EVT EC1

Name

REPT EVT EC1: Report Event Electrical Carrier Level 1

Description

Category: Fault **Security:** Maintenance - read

Report Event EC1 is generated by a C7 to report the occurrence of non-alarmed events against an EC1 port. Trouble events occurring in the C7 are classified as alarmed or non-alarmed events. Designation of specific trouble events as alarmed or non-alarmed events is explained in GR-474 and FR-475.

The event being reported may be the change of the status or the occurrence of an irregularity, which by itself is not severe enough to warrant an alarm notification. One example of this is a performance

threshold crossing.

This message may also be used to report the recovery from off-normal or trouble conditions that were reported initially via REPT EVT EC1. This is done by using the CONDTYPE sent by the original event report and using the value CL for CONDEFF.

Defined in GR-833.

Related Messages:

[DLT-EC1](#)
[ED-EC1](#)
[ENT-EC1](#)
[INIT-REG-EC1](#)
[REPT ALM EC1](#)
[REPT RST EC1](#)
[RMV-EC1](#)
[RTRV-ALM-EC1](#)
[RTRV-EC1](#)
[RTRV-PM-EC1](#)

[DLT-GOS-EC1](#)
[ED-GOS-EC1](#)
[ENT-GOS-EC1](#)
[OPR-LPBK-EC1](#)
[REPT RMV EC1](#)
[RLS-LPBK-EC1](#)
[RST-EC1](#)
[RTRV-COND-EC1](#)
[RTRV-GOS-EC1](#)

Output Format

```

SID DATE TIME
A ATAG REPT EVT EC1

"<Ec1Aid>:<CONDTYPE>,<CONDEFF>,<OCRDAT>,<OCRTM>,[<LOCN>],,[<MONVAL>],
[<THLEV>],[<TMPER>]"
;
```

Output Parameters

- Ec1Aid** EC1 Access Identifier. The address of the EC1 port which caused the event to be generated. *Ec1Aid* is the AID [TwelvePortLuAid](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type for the reported event. *CONDTYPE* is of type [CondTypeOcN](#).
- CONDEFF** Condition Effect. This parameter indicates the effect of the event on the C7. *CONDEFF* is of type [ConditionEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.
- LOCN** Location. This parameter identifies the location associated with a particular alarm. *LOCN* is of type [Location](#). *LOCN* is optional.
- MONVAL** Monitored Value. This parameter is the measured value of a monitored parameter, which resulted in the threshold for a monitored parameter exceeding the defined or specified threshold level. *MONVAL* is a Integer. *MONVAL* is optional.
- THLEV** Threshold Level. This parameter is the threshold level for the monitored parameter.

THLEV is a Integer. *THLEV* is optional.

TMPER Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. *TMPER* is of type [PMPeriod](#). *TMPER* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
A 001 REPT EVT EC1
"N5-3-5-2:T-CVL,TC,12-28,12-00-00,FEND,,35033,35000,15-MIN:"
;
```

REPT EVT EQPT

Name

REPT EVT EQPT: Report Event Equipment

Description

Category: Fault **Security:** Maintenance - read

Report Event Equipment is generated by a C7 to report the occurrence of non-alarmed events against an equipment entity. Trouble events occurring in the C7 are classified as alarmed or non-alarmed events. Designation of specific trouble events as alarmed or non-alarmed events is explained in GR-474 and FR-475.

The event being reported may be the change of the status or the occurrence of an irregularity, which by itself is not severe enough to warrant an alarm notification. One example of this is a performance threshold crossing.

This message may also be used to report the recovery from off-normal or trouble conditions that were reported initially via REPT EVT EQPT. This is done by using the CONDTYPE sent by the original event report and using the value CL for CONDEFF.

Defined in GR-833.

Related Messages:

[ALW-SWDX-EQPT](#)
[ALW-SWTOWKG-EQPT](#)
[ED-EQPT](#)
[INH-SWDX-EQPT](#)
[INH-SWTOWKG-EQPT](#)
[REPT RMV EQPT](#)

[ALW-SWTOPROTN-EQPT](#)
[DLT-EQPT](#)
[ENT-EQPT](#)
[INH-SWTOPROTN-EQPT](#)
[REPT ALM EQPT](#)
[REPT RST EQPT](#)

[RMV-EQPT](#)
[RTRV-ALM-EQPT](#)
[RTRV-EQPT](#)
[SW-TOPROTN-EQPT](#)

[RST-EQPT](#)
[RTRV-COND-EQPT](#)
[SW-DX-EQPT](#)
[SW-TOWKG-EQPT](#)

Output Format

```
SID DATE TIME
A ATAG REPT EVT EQPT
"<EqptAid>:<CONDTYPE>, <CONDEFF>, <OCRDAT>, <OCRTM>"
;
```

Output Parameters

- EqptAid** Equipment Access Identifier. The address of the equipment entity which caused the event is being generated. *EqptAid* is the AID [EquipmentId](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type for the reported event. *CONDTYPE* is of type [CondTypeEqpt](#).
- CONDEFF** Condition Effect. This parameter indicates the effect of the event on the C7. *CONDEFF* is of type [ConditionEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.

Output Example

```
TID-000 98-06-20 14-30-00
A 001 REPT EVT EQPT
"N8-3-4:FAILTORLS,SC,12-28,12-00-00:"
;
```

REPT EVT ETH

Name

REPT EVT ETH: Report Event Ethernet Port

Description

Category: Fault **Security:** Maintenance - read

Report Event Ethernet is generated by a C7 to report the occurrence of non-alarmed events against Ethernet ports. Trouble events occurring in the C7 are classified as alarmed or non-alarmed events. Designation of specific trouble events as alarmed or non-alarmed events is explained in GR-474 and FR-475.

The event being reported may be the change of the status or the occurrence of an irregularity, which by itself is not severe enough to warrant an alarm notification. One example of this is a performance threshold crossing. This message may also be used to report the recovery from off-normal or trouble conditions that were reported initially via REPT EVT ETH. This is done by using the CONDTYPE sent by the original event report and using the value CL for CONDEFF.

Related Messages:

[DLT-AGG](#)

[DLT-AGG-PORT](#)

[DLT-ETH-ACL](#)

[DLT-LSWITCH](#)

[DLT-PROF-ETH](#)

[DLT-VLAN-PORT](#)

[ED-ETH](#)

[ED-VLAN](#)

[ED-VLAN-VBPORT](#)

[ENT-AGG-ACL](#)

[ENT-ETH](#)

[ENT-GOS-ETH](#)

[ENT-LSWITCH-PORT](#)

[ENT-VLAN](#)

[ENT-VLAN-VBPORT](#)

[INIT-STAT-ETH](#)

[REPT RMV ETH](#)

[RMV-ETH](#)

[RTRV-AGG](#)

[RTRV-AGG-PORT](#)

[RTRV-COND-ETH](#)

[RTRV-ETH-ACL](#)

[RTRV-LSWITCH](#)

[RTRV-PM-ETH](#)

[RTRV-STAT-ETH](#)

[RTRV-VLAN-PORT](#)

[DLT-AGG-ACL](#)

[DLT-ETH](#)

[DLT-GOS-ETH](#)

[DLT-LSWITCH-PORT](#)

[DLT-VLAN](#)

[DLT-VLAN-VBPORT](#)

[ED-GOS-ETH](#)

[ED-VLAN-PORT](#)

[ENT-AGG](#)

[ENT-AGG-PORT](#)

[ENT-ETH-ACL](#)

[ENT-LSWITCH](#)

[ENT-PROF-ETH](#)

[ENT-VLAN-PORT](#)

[INIT-LSWITCH](#)

[REPT ALM ETH](#)

[REPT RST ETH](#)

[RST-ETH](#)

[RTRV-AGG-ACL](#)

[RTRV-ALM-ETH](#)

[RTRV-ETH](#)

[RTRV-GOS-ETH](#)

[RTRV-LSWITCH-PORT](#)

[RTRV-PROF-ETH](#)

[RTRV-VLAN](#)

[RTRV-VLAN-VBPORT](#)

Output Format

A	ATAG	REPT	EVT	ETH	"<EthAid>:<CONDTYPE>, <CONDEFF>, <OCRDAT>, <OCRTM>, <LOCN>"
;					

Output Parameters

EthAid	Ethernet Access Identifier. <i>EthAid</i> is the AID TwelvePortLuAid .
CONDTYPE	Condition Type. This parameter identifies the condition type for the reported event. <i>CONDTYPE</i> is of type CondTypeEth .
CONDEFF	Condition Effect. This parameter indicates the effect of the event on the C7. <i>CONDEFF</i> is of type ConditionEffect .
OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. <i>OCRDAT</i> is a Date.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time.
LOCN	Location. This parameter identifies the location associated with a particular event. <i>LOCN</i> is of type Location .

Output Example

```
TID-000 98-06-20 14-30-00
A 001 REPT EVT ETH
"N8-3-4-4:LSWITCH,SC,12-28,12-00-00,NEND: "
;
```

REPT EVT GR303

Name

REPT EVT GR303: Report Event GR303

Description

Category: Fault **Security:** Maintenance - read

Report Event GR303 is generated by a C7 to report the occurrence of non-alarmed events against a GR303 interface group. Trouble events occurring in the C7 are classified as alarmed or non-alarmed events. Designation of specific trouble events as alarmed or non-alarmed events is explained in GR-474 and FR-475.

The event being reported may be the change of the status or the occurrence of an irregularity, which by itself is not severe enough to warrant an alarm notification. One example of this is a performance threshold crossing. This message may also be used to report the recovery from off-normal or trouble conditions that were reported initially via REPT EVT GR303. This is done by using the CONDTYPE sent by the original event report and using the value CL for CONDEFF.

Defined in GR-833.

Related Messages:

ALW-Swdx-GR303	ALW-Swdx-T1TG
DLT-CRS-T0	DLT-GR303
DLT-GR8	DLT-IG-DS1
DLT-T1TG	ED-GR303
ED-GR8	ENT-CRS-T0
ENT-GR303	ENT-GR8
ENT-IG-DS1	ENT-T1TG
INH-Swdx-GR303	INH-Swdx-T1TG
REPT ALM GR303	REPT ALM T1TG
REPT EVT T1TG	REPT SW GR303
REPT SW T1TG	RTRV-ALM-GR303
RTRV-ALM-T1TG	RTRV-COND-GR303
RTRV-COND-T1TG	RTRV-CRS-T0
RTRV-DLSTAT-GR303	RTRV-DLSTAT-T1TG
RTRV-GR303	RTRV-GR8
RTRV-IG-DS1	RTRV-T1TG
SW-DX-GR303	SW-DX-T1TG

Output Format

```

SID DATE TIME
A ATAG REPT EVT GR303
"<IgLinkSwAid>:<CONDTYPE>, <CONDEFF>, <OCRDAT>, <OCRTM>"
;
```

Output Parameters

IgLinkSwAid GR303 Data Link Access Identifier. The address of the EOC/TMC data link for a GR303 interface group entity which caused the event is being generated. *IgLinkSwAid* is the AID [IgLinkSwAid](#).

CONDTYPE Condition Type. This parameter identifies the condition type for the reported event. *CONDTYPE* is of type [CondTypeIg](#).

CONDEFF Condition Effect. This parameter indicates the effect of the event on the C7. *CONDEFF* is of type [ConditionEffect](#).

OCRDAT Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.

OCRTM Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT EVT GR303
"N5-3-IG6-TMC:TMCSIMPLEX,SC,12-28,12-00-00:"
;
```

REPT EVT HDSL

Name

REPT EVT HDSL: Report Event High bit rate Digital Subscriber Line

Description

Category: Fault **Security:** Maintenance - read

Report Event HDSL is generated by a C7 to report the occurrence of non-alarmed events against HDSL ports. Trouble events occurring in the C7 are classified as alarmed or non-alarmed events. Designation of specific trouble events as alarmed or non-alarmed events is explained in GR-474 and FR-475.

The event being reported may be the change of the status or the occurrence of an irregularity, which by itself is not severe enough to warrant an alarm notification. One example of this is a performance threshold crossing.

This message may also be used to report the recovery from off-normal or trouble conditions that were reported initially via REPT EVT HDSL. This is done by using the CONDTYPE sent by the original event report and using the value CL for CONDEFF.

This message may also be used to report the first occurrence of a loopback condition on a port. The way this would be accomplished is by using REPT EVT HDSL with the CONDTYPE parameter indicating the presence of a loopback.

Defined in GR-833.

Related Messages:

[DLT-GOS-HDSL](#)

[ED-GOS-HDSL](#)

[ENT-GOS-HDSL](#)

[INIT-HDSL](#)

[OPR-LPBK-HDSL](#)

[REPT RMV HDSL](#)

[RLS-LPBK-HDSL](#)

[RST-HDSL](#)

[RTRV-COND-HDSL](#)

[RTRV-GOS-HDSL](#)

[RTRV-HTU](#)

[DLT-HDSL](#)

[ED-HDSL](#)

[ENT-HDSL](#)

[INIT-REG-HDSL](#)

[REPT ALM HDSL](#)

[REPT RST HDSL](#)

[RMV-HDSL](#)

[RTRV-ALM-HDSL](#)

[RTRV-CSTAT-HDSL](#)

[RTRV-HDSL](#)

[RTRV-PM-HDSL](#)

Output Format

```

SID DATE TIME
A ATAG REPT EVT HDSL
"<HdslAid>:<CONDTYPE>, <CONDEFF>, <OCRDAT>, <OCRTM>, [ <LOCN> ] , , [ <MONVAL> ] ,
[ <THLEV> ], [ <TMPER> ] "
;
```

Output Parameters

- HdslAid** HDSL Port Access Identifier. The address of the HDSL port which caused the event is being generated. *HdslAid* is the AID [SixPortLuAid](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type for the reported event. *CONDTYPE* is of type [CondTypeHds](#).
- CONDEFF** Condition Effect. This parameter indicates the effect of the event on the C7. *CONDEFF* is of type [ConditionEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.
- LOCN** Location. This parameter identifies the location associated with a particular event. *LOCN* is of type [LocationAll](#). *LOCN* is optional.
- MONVAL** Monitored Value. This parameter is the measured value of a monitored parameter, which resulted in the threshold for a monitored parameter exceeding the defined or specified threshold level. *MONVAL* is a Integer. *MONVAL* is optional.
- THLEV** Threshold Level. This parameter is the threshold level for the monitored parameter. *THLEV* is a Integer. *THLEV* is optional.
- TMPER** Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. *TMPER* is of type [PMPPeriod](#). *TMPER* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT EVT HDSL
"N4-3-1-5:T-UASP,TC,12-28,12-00-00,FEND,,332,330,1-DAY:"
;
```

REPT EVT IMA

Name

REPT EVT IMA: Report Event IMA

Description

Category: Fault **Security:** Maintenance - read

Report Event IMA is generated by a C7 to report the occurrence of non-alarmed events against an IMA group. Trouble events occurring in the C7 are classified as alarmed or non-alarmed events. Designation of specific trouble events as alarmed or non-alarmed events is explained in GR-474 and FR-475.

The event being reported may be the change of the status or the occurrence of an irregularity, which by itself is not severe enough to warrant an alarm notification. One example of this is a performance threshold crossing.

This message may also be used to report the recovery from off-normal or trouble conditions that were reported initially via REPT EVT IMA. This is done by using the CONDTYPE sent by the original event report and using the value CL for CONDEFF.

Related Messages:

DLT-AP	DLT-AP-T1
DLT-GOS-AP	DLT-GOS-IMA
DLT-GOS-IMALINK	DLT-IMA
DLT-IMA-PORT	ED-AP
ED-GOS-AP	ED-GOS-IMA
ED-GOS-IMALINK	ED-IMA
ENT-AP	ENT-AP-T1
ENT-GOS-AP	ENT-GOS-IMA
ENT-GOS-IMALINK	ENT-IMA
ENT-IMA-PORT	INIT-REG-AP
INIT-REG-IMA	INIT-REG-IMALINK
REPT ALM AP	REPT ALM IMA
REPT ALM IMALINK	REPT EVT AP
REPT EVT IMALINK	REPT RMV AP
REPT RST AP	RMV-AP
RMV-IMA	RST-AP
RST-IMA	RTRV-ALM-AP
RTRV-ALM-IMA	RTRV-ALM-IMALINK
RTRV-AP	RTRV-COND-AP
RTRV-COND-IMA	RTRV-GOS-AP
RTRV-GOS-IMA	RTRV-GOS-IMALINK
RTRV-IMA	RTRV-PM-AP
RTRV-PM-IMA	RTRV-PM-IMALINK

Output Format

SID DATE TIME
A ATAG REPT EVT IMA
"<ImaAid>:<CONDTYPE>,<CONDEFF>,<OCRDAT>,<OCRTM>,[<LOCN>],,[<MONVAL>],,[<THLEV>],[<TMPER>]"

Output Parameters

ImaAid	IMA Group Access Identifier. The address of the IMA group which caused the event to be generated. <i>ImaAid</i> is the AID ImaGrpAid .
CONDTYPE	Condition Type. This parameter identifies the condition type for the reported event. <i>CONDTYPE</i> is of type CondTypeIma .
CONDEFF	Condition Effect. This parameter indicates the effect of the event on the C7. <i>CONDEFF</i> is of type ConditionEffect .
OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. <i>OCRDAT</i> is a Date.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. <i>OCRTM</i> is a Time.
LOCN	Location. This parameter identifies the location associated with a particular alarm. <i>LOCN</i> is of type Location . <i>LOCN</i> is optional.
MONVAL	Monitored Value. This parameter is the measured value of a monitored parameter, which resulted in the threshold for a monitored parameter exceeding the defined or specified threshold level. <i>MONVAL</i> is a Integer. <i>MONVAL</i> is optional.
THLEV	Threshold Level. This parameter is the threshold level for the monitored parameter. <i>THLEV</i> is a Integer. <i>THLEV</i> is optional.
TMPER	Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. <i>TMPER</i> is of type PMPeriod . <i>TMPER</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT EVT IMA
"N3-1-3-IMA1:T-GR-FC,TC,12-28,12-00-00,NEND,,332,330,1-DAY:"
;
```

REPT EVT IMALINK

Name

REPT EVT IMALINK: Report Event IMALINK

Description

Category: Fault **Security:** Maintenance - read

Report Event IMA Link is generated by a C7 to report the occurrence of non-alarmed events against an IMA link. Trouble events occurring in the C7 are classified as alarmed or non-alarmed events. Designation of specific trouble events as alarmed or non-alarmed events is explained in GR-474 and FR-475.

The event being reported may be the change of the status or the occurrence of an irregularity, which by itself is not severe enough to warrant an alarm notification. One example of this is a performance threshold crossing.

This message may also be used to report the recovery from off-normal or trouble conditions that were reported initially via REPT EVT IMALINK. This is done by using the CONDTYPE sent by the original event report and using the value CL for CONDEFF.

Defined in GR-833.

Related Messages:

DLT-AP	DLT-AP-T1
DLT-GOS-AP	DLT-GOS-IMA
DLT-GOS-IMALINK	DLT-JMA
DLT-IMA-PORT	ED-AP
ED-GOS-AP	ED-GOS-IMA
ED-GOS-IMALINK	ED-IMA
ENT-AP	ENT-AP-T1
ENT-GOS-AP	ENT-GOS-IMA
ENT-GOS-IMALINK	ENT-IMA
ENT-IMA-PORT	INIT-REG-AP
INIT-REG-IMA	INIT-REG-IMALINK
REPT ALM AP	REPT ALM IMA
REPT ALM IMALINK	REPT EVT AP
REPT EVT IMA	REPT RMV AP
REPT RST AP	RMV-AP
RMV-IMA	RST-AP
RST-IMA	RTRV-ALM-AP
RTRV-ALM-IMA	RTRV-ALM-IMALINK
RTRV-AP	RTRV-COND-AP
RTRV-COND-IMA	RTRV-GOS-AP
RTRV-GOS-IMA	RTRV-GOS-IMALINK
RTRV-IMA	RTRV-PM-AP
RTRV-PM-IMA	RTRV-PM-IMALINK

Output Format

```

SID DATE TIME
A ATAG REPT EVT IMALINK
"<ImalinkAid>:<CONDTYPE>,<CONDEFF>,<OCRDAT>,<OCRTM>,[<LOCN>],,[<MONVAL>],
[<THLEV>],[<TMPER>]"
;
```

Output Parameters

- ImaLinkAid** IMA Link Access Identifier. The address of the IMA group which caused the event to be generated. *ImaLinkAid* is the AID [SixPortLuAid](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type for the reported event. *CONDTYPE* is of type [CondTypeImaLink](#).
- CONDEFF** Condition Effect. This parameter indicates the effect of the event on the C7. *CONDEFF* is of type [ConditionEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.
- LOCN** Location. This parameter identifies the location associated with a particular alarm. *LOCN* is of type [Location](#). *LOCN* is optional.
- MONVAL** Monitored Value. This parameter is the measured value of a monitored parameter, which resulted in the threshold for a monitored parameter exceeding the defined or specified threshold level. *MONVAL* is a Integer. *MONVAL* is optional.
- THLEV** Threshold Level. This parameter is the threshold level for the monitored parameter. *THLEV* is a Integer. *THLEV* is optional.
- TMPER** Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. *TMPER* is of type [PMPPeriod](#). *TMPER* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT EVT IMALINK
"N3-1-3-1:T-UAS-IMA,TC,12-28,12-00-00,FEND,,332,330,1-DAY:"
;
```

REPT EVT LOG

Name

REPT EVT LOG: Report Event Log

Description

Category: Fault **Security:** Maintenance - read

Report Event Log is generated by a C7 to report the occurrence of non-alarmed events against the logs.

Trouble events occurring in the C7 are classified as alarmed or non-alarmed events. Designation of specific trouble events as alarmed or non-alarmed events is explained in GR-474 and FR-475.

The event being reported may be the change of the status or the occurrence of an irregularity, which by itself is not severe enough to warrant an alarm notification. One example of this is a performance threshold crossing. This message may also be used to report the recovery from off-normal or trouble conditions that were reported initially via REPT EVT LOG. This is done by using the CONDTYPE sent by the original event report and using the value CL for CONDEFF.

Defined in GR-833.

Related Messages:

[INIT-LOG](#)
[RTRV-COND-LOG](#)
[RTRV-LOG](#)

Output Format

```
SID DATE TIME
A ATAG REPT EVT LOG
  "<ShelfAid>:<CONDTYPE>, <CONDEFF>, <OCRDAT>, <OCRTM> "
;
```

Output Parameters

ShelfAid Shelf Access Identifier. The address of the shelf where the generated event occurred.
ShelfAid is the AID [ShelfAid](#).

CONDTYPE Condition Type. This parameter identifies the condition type for the reported event.
CONDTYPE is of type [CondTypeLog](#).

CONDEFF Condition Effect. This parameter indicates the effect of the event on the C7. *CONDEFF* is of type [ConditionEffect](#).

OCRDAT Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.

OCRTM Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.

Output Example

```
TID-000 98-06-20 14-30-00
A 001 REPT EVT LOG
  "ALM:LOGBUFR90-ALM,SC,12-28,12-00-00:"
;
```

REPT EVT LSWPORT

Name

REPT EVT LSWPORT: Report Event Logical Switch Port

Description

Category: Fault **Security:** Maintenance - read

Report Event LSwitch is generated by a C7 to report the occurrence of non-alarmed events against an LSwitch. Trouble events occurring in the C7 are classified as alarmed or non-alarmed events. Designation of specific trouble events as alarmed or non-alarmed events is explained in GR-474 and FR-475.

The event being reported may be the change of the status or the occurrence of an irregularity, which by itself is not severe enough to warrant an alarm notification. One example of this is a performance threshold crossing.

This message may also be used to report the recovery from off-normal or trouble conditions that were reported initially via REPT EVT LSWITCH. This is done by using the CONDTYPE sent by the original event report and using the value CL for CONDEFF.

Defined in GR-833.

Output Format

```

SID DATE TIME
A ATAG REPT EVT LSWPORT
  "<LSwitchPortAid>:<CONDTYPE>, <CONDEFF>, <OCRDAT>, <OCRTM>"
;

```

Output Parameters

LSwitchPortAid Logical Switch Port Access Identifier. *LSwitchPortAid* is the AID [LSwitchPortAid](#).

CONDTYPE Condition Type. This parameter identifies the condition type for the reported event. *CONDTYPE* is of type [CondTypeLSwitch](#).

CONDEFF Condition Effect. This parameter indicates the effect of the event on the C7. *CONDEFF* is of type [ConditionEffect](#).

OCRDAT Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.

OCRTM Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT EVT LSWPORT
  "N3-1-XLAN1-NTWK1:XLANOPEN,TC,12-28,12-00-00"
;

```

REPT EVT MEM

Name

REPT EVT MEM: Report Event Memory

Description

Category: Fault **Security:** Maintenance - read

Report Event Memory is generated by an NE to report the occurrence of non-alarmed events against the memory. Trouble events occurring in the NE are classified as alarmed or non-alarmed events. Designation of specific trouble events as alarmed or non-alarmed events is explained in GR-474 and FR-475.

The event being reported may be the change of the status or the occurrence of an irregularity, which by itself is not severe enough to warrant an alarm notification. One example of this is a performance threshold crossing.

This message may also be used to report the recovery from off-normal or trouble conditions that were reported initially via REPT-EVT. This is done by using the CONDTYPE sent by the original event report and using the value CL for CONDEFF.

Defined in GR-833.

Related Messages:

[ALW-STBY-UPGRD](#)
[DLT-NODE](#)
[ED-NODE](#)
[ED-SYS](#)
[ENT-NODE](#)
[INH-STBY-UPGRD](#)
[OPR-BAR](#)
[REPT EVT SHELF](#)
[RTRV-BAR](#)
[RTRV-HDR](#)
[RTRV-NODE](#)
[RTRV-SYS](#)

[DLT-ALM-SHELF](#)
[ED-DAT](#)
[ED-SHELF](#)
[ED-SYS-SECU](#)
[ENT-SHELF](#)
[INIT-SYS](#)
[REPT ALM SHELF](#)
[RTRV-ALM-SHELF](#)
[RTRV-COND-SHELF](#)
[RTRV-NETYPE](#)
[RTRV-SHELF](#)
[RTRV-SYS-SECU](#)

Output Format

```

SID DATE TIME
A ATAG REPT EVT MEM
" <ShelfAid> : <CONDTYPE> , <CONDEFF> , <OCRDAT> , <OCRTM>
;

```

Output Parameters

ShelfAid	Shelf Access Identifier. The address of the shelf where the memory located which caused the event is being generated. <i>ShelfAid</i> is the AID ShelfAid .
CONDTYPE	Condition Type. This parameter identifies the condition type for the reported event. <i>CONDTYPE</i> is of type CondTypeMemEvt .
CONDEFF	Condition Effect. This parameter indicates the effect of the event on the C7. <i>CONDEFF</i> is of type ConditionEffect .
OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. <i>OCRDAT</i> is a Date.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time.

Output Example

```
TID-000 98-06-20 14-30-00
A 001 REPT EVT MEM
"N4-5:DBMEMTRF,SC,12-28,12-00-00:"
;
```

REPT EVT ONT

Name

REPT EVT ONT: Report Event Optical Network Termination

Description

Category: Fault **Security:** Maintenance - read

Report Event ONT is generated by a C7 to report the occurrence of non-alarmed events against an ONT. Trouble events occurring in the C7 are classified as alarmed or non-alarmed events. Designation of specific trouble events as alarmed or non-alarmed events is explained in GR-474 and FR-475.

The event being reported may be the change of the status or the occurrence of an irregularity, which by itself is not severe enough to warrant an alarm notification. This message may also be used to report the recovery from off-normal or trouble conditions that were reported initially via REPT EVT ONT. This is done by using the CONDTYPE sent by the original event report and using the value CL for CONDEFF.

Defined in GR-833.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT RMV AVO	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Output Format

```

SID DATE TIME
A ATAG REPT EVT ONT
  "<OntAid>:<CONDTYPE>, <CONDEFF>, <OCRDAT>, <OCRTM>"
;

```

Output Parameters

OntAid ONT Access Identifier. The address of the ONT which caused the event is being generated. *OntAid* is the AID [OntAid](#).

CONDTYPE Condition Type. This parameter identifies the condition type for the reported event.

CONDTYPE is of type [CondTypeOnt](#).

- CONDEFF** Condition Effect. This parameter indicates the effect of the event on the C7. *CONDEFF* is of type [ConditionEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.

Output Example

```
TID-000 98-06-20 14-30-00
A 001 REPT EVT ONT
  "N6-3-11-1-22:SUF,SC,3-4,15-15-15"
;
```

REPT EVT PP

Name

REPT EVT PP: Report Event Pseudo-Port

Description

Category: Fault **Security:** Maintenance - read

Report Event PP is generated by a C7 to report the occurrence of non-alarmed events against pseudo-ports. Trouble events occurring in the C7 are classified as alarmed or non-alarmed events. Designation of specific trouble events as alarmed or non-alarmed events is explained in GR-474 and FR-475.

The event being reported may be the change of the status or the occurrence of an irregularity, which by itself is not severe enough to warrant an alarm notification. One example of this is a performance threshold crossing.

This message may also be used to report the recovery from off-normal or trouble conditions that were reported initially via REPT EVT PP. This is done by using the CONDTYPE sent by the original event report and using the value CL for CONDEFF.

Defined in GR-833.

Related Messages:

[ACT-PROTN-VC](#)
[DLT-CRS-VC](#)
[DLT-PP](#)

[ACT-PROTN-VP](#)
[DLT-CRS-VP](#)
[DLT-PROF-TRF](#)

ED-CRS-VC	ED-CRS-VP
ED-PROF-TRF	ENT-CRS-VC
ENT-CRS-VP	ENT-PP
ENT-PROF-TRF	INIT-CSTAT-VC
INIT-CSTAT-VP	INJ-LPBK-VC
INJ-LPBK-VP	MV-CRS-VC
MV-CRS-VP	OPR-CC-VC
OPR-CC-VP	REPT ALM PP
REPT EVT VC	REPT EVT VP
REPT RMV PP	REPT RST PP
RLS-CC-VC	RLS-CC-VP
RMV-PP	RST-PP
RTRV-ALM-PP	RTRV-COND-PP
RTRV-CRS-VC	RTRV-CRS-VP
RTRV-CSTAT-VC	RTRV-CSTAT-VP
RTRV-PP	RTRV-PROF-TRF
RTRV-VTI	

Output Format

```

SID DATE TIME
A ATAG REPT EVT PP
  "<PpAid>:<CONDTYPE>,<CONDEFF>,<OCRDAT>,<OCRTM>,[<LOCN>]"
;

```

Output Parameters

- PpAid** Pseudo-Port Access Identifier. The address of the pseudo-port which caused the event is being generated. *PpAid* is the AID [PpAid](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type for the reported event. *CONDTYPE* is of type [CondTypePp](#).
- CONDEFF** Condition Effect. This parameter indicates the effect of the event on the C7. *CONDEFF* is of type [ConditionEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.
- LOCN** Location. This parameter identifies the location associated with a particular alarm. *LOCN* is of type [Location](#). *LOCN* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT EVT PP
  "N8-3-4-PP1:SCMMA,SC,12-28,12-00-00,NEND:"
;
```

REPT EVT PPL

Name

REPT EVT PPL: Report Event Path Protection Label

Description

Category: Fault **Security:** Maintenance - read

Report Event Path Protection Label is used to report path protection events

Related Messages:

[ENT-PPL](#)

[OPR-PROTNSW-PPL](#)

[REPT ALM PPL](#)

[RLS-PROTNSW-PPL](#)

[RTRV-ALM-PPL](#)

[RTRV-COND-PPL](#)

[RTRV-PPL](#)

Output Format

```

SID DATE TIME
A ATAG REPT EVT PPL
"<PplAid>:<CONDTYPE>,<CONDEFF>,<OCRDAT>,<OCRTM>"
;
```

Output Parameters

PplAid Path Protection Label Access Identifier *PplAid* is the AID [PplId1](#).

CONDTYPE Condition Type. This parameter identifies the condition type for the reported event. *CONDTYPE* is of type [CondTypePpl](#).

CONDEFF Condition Effect. This parameter indicates the effect of the event on the C7. *CONDEFF* is of type [ConditionEffect](#).

OCRDAT Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.

OCRTM Occurrence Time. This parameter identifies the time when the specific event occurred. *OCRTM* is a Time.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT EVT PPL
```

```
; "N6-3-11-1-55:WKSWPR,TC,12-28,12-00-00:"
```

REPT EVT SECU

Name

REPT EVT SECU: Report Event Security

Description

Category: Fault **Security:** Security Administrator

This is an automatic message transmitted by the C7 to a security administrator, indicating the occurrence of a non-alarmed event related to security.

Related Messages:

[ALW-MSG-SECU](#)
[CANC-CID-SECU](#)
[DLT-TMPLT-SECU](#)
[ED-RADIUS](#)
[ED-TMPLT-SECU](#)
[ENT-TMPLT-SECU](#)
[INH-MSG-SECU](#)
[REPT ALM SECU](#)
[RTRV-COND-SECU](#)
[RTRV-STATUS](#)
[RTRV-TMPLT-SECU](#)

[ALW-USER-SECU](#)
[CANC-SES-SECU](#)
[DLT-USER-SECU](#)
[ED-SYS-SECU](#)
[ED-USER-SECU](#)
[ENT-USER-SECU](#)
[INH-USER-SECU](#)
[RTRV-ALM-SECU](#)
[RTRV-RADIUS](#)
[RTRV-SYS-SECU](#)
[RTRV-USER-SECU](#)

Output Format

```
SID DATE TIME
A ATAG REPT EVT SECU
"<SecuAid>:<CONDTYPE>,<CONDEFF>,<OCRDAT>,<OCRTM>:[<MORAID>],[<DESC>]"
;"
```

Output Parameters

SecuAid The object that entered the command triggering this event. This could be a user, a management slot, or the system ("SYS"). *SecuAid* is the AID [SecurityId1](#).

CONDTYPE Condition Type. This parameter identifies the condition type for the reported event.

CONDTYPE is of type [CondTypeSecu](#).

CONDEFF	Condition Effect. This parameter indicates the effect of the event on the C7. <i>CONDEFF</i> is of type ConditionEffect .
OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. <i>OCRDAT</i> is a Date.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time.
MORAID	Affected or related AID. <i>MORAID</i> is a String. <i>MORAID</i> is optional.
DESC	A text string further describing this event, up to 11 characters in length. <i>DESC</i> is a String. <i>DESC</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
A 001 REPT EVT SECU
"USER22:LOGIN,SC,12-28,12-00-00:N1-1-MS-E2,SECURITY"
;
```

REPT EVT SHELF

Name

REPT EVT SHELF: Report Event Shelf

Description

Category: Fault **Security:** System Administration

Report Event Shelf is generated by a C7 to report the occurrence of non-alarmed events against a shelf. Trouble events occurring in the C7 are classified as alarmed or non-alarmed events. Designation of specific trouble events as alarmed or non-alarmed events is explained in GR-474 and FR-475.

The event being reported may be the change of the status or the occurrence of an irregularity, which by itself is not severe enough to warrant an alarm notification. One example of this is a performance threshold crossing.

This message may also be used to report the recovery from off-normal or trouble conditions that were reported initially via REPT EVT SHELF. This is done by using the CONDTYPE sent by the original event report and using the value CL for CONDEFF.

Related Messages:

[ALW-STBY-UPGRD](#)

[DLT-ALM-SHELF](#)

DLT-NODE	ED-DAT
ED-NODE	ED-SHELF
ED-SYS	ED-SYS-SECU
ENT-NODE	ENT-SHELF
INH-STBY-UPGRD	INIT-SYS
OPR-BAR	REPT ALM SHELF
REPT EVT MEM	RTRV-ALM-SHELF
RTRV-BAR	RTRV-COND-SHELF
RTRV-HDR	RTRV-NETYPE
RTRV-NODE	RTRV-SHELF
RTRV-SYS	RTRV-SYS-SECU

Output Format

```

SID DATE TIME
A ATAG REPT EVT SHELF
"<ShelfAid>:<CONDTYPE>,<CONDEFF>,<OCRDAT>,<OCRTM>"
;

```

Output Parameters

- ShelfAid** Shelf Access Identifier. The address of the shelf which caused the event is being generated. *ShelfAid* is the AID [ShelfAid](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type for the reported event. *CONDTYPE* is of type [CondTypeShelf](#).
- CONDEFF** Condition Effect. This parameter indicates the effect of the event on the C7. *CONDEFF* is of type [ConditionEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT EVT SHELF
"N5-3:SWFTDWN,SC,12-28,12-00-00:"
;

```

REPT EVT T0

Name

REPT EVT T0: Report Event DS0 Facility

Description

Category: Fault **Security:** Maintenance - read

Report Event T0 is generated by a C7 to report the occurrence of non-alarmed events against T1 ports. Trouble events occurring in the C7 are classified as alarmed or non-alarmed events. Designation of specific trouble events as alarmed or non-alarmed events is explained in GR-474 and FR-475.

The event being reported may be the change of the status or the occurrence of an irregularity, which by itself is not severe enough to warrant an alarm notification. One example of this is a performance threshold crossing.

This message may also be used to report the recovery from off-normal or trouble conditions that were reported initially via REPT EVT T0. This is done by using the CONDTYPE sent by the original event report and using the value CL for CONDEFF.

This message may also be used to report the first occurrence of a loopback condition on a DS0. The way this would be accomplished is by using REPT EVT T0 with the CONDTYPE parameter indicating the presence of a loopback.

Defined in GR-833.

Related Messages:

[DLT-CRS-T0](#)

[ED-T0](#)

[ENT-T0](#)

[REPT RMV T0](#)

[RMV-T0](#)

[RTRV-ALM-T0](#)

[RTRV-CRS-T0](#)

[RTRV-T0](#)

[DLT-T0](#)

[ENT-CRS-T0](#)

[REPT ALM T0](#)

[REPT RST T0](#)

[RST-T0](#)

[RTRV-COND-T0](#)

[RTRV-CSTAT-T0](#)

Output Format

SID DATE TIME
A ATAG REPT EVT T0
"<Ds0Aid>:<CONDTYPE>,<CONDEFF>,<OCRDAT>,<OCRTM>,[<LOCN>],,[<MONVAL>],
[<THLEV>],[<TMPER>]"
;

Output Parameters

Ds0Aid T0 Port Access Identifier. The address of the T0 port which caused the event is being generated. *Ds0Aid* is the AID [TwentyFourPortLuAid](#).

CONDTYPE Condition Type. This parameter identifies the condition type for the reported event.

CONDTYPE is of type [CondTypeT0Evt](#).

CONDEFF	Condition Effect. This parameter indicates the effect of the event on the C7. <i>CONDEFF</i> is of type ConditionEffect .
OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. <i>OCRDAT</i> is a Date.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time.
LOCN	Location. This parameter identifies the location associated with a particular alarm. <i>LOCN</i> is of type Location . <i>LOCN</i> is optional.
MONVAL	Monitored Value. This parameter is the measured value of a monitored parameter, which resulted in the threshold for a monitored parameter exceeding the defined or specified threshold level. <i>MONVAL</i> is a Integer. <i>MONVAL</i> is optional.
THLEV	Threshold Level. This parameter is the threshold level for the monitored parameter. <i>THLEV</i> is a Integer. <i>THLEV</i> is optional.
TMPER	Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. <i>TMPER</i> is of type PMPeriod . <i>TMPER</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT EVT T0
"N4-3-1-5:T-UASP,TC,12-28,12-00-00,FEND,,332,330,1-DAY:"
;
```

REPT EVT T1

Name

REPT EVT T1: Report Event Digital Signal 1

Description

Category: Fault **Security:** Maintenance - read

Report Event T1 is generated by a C7 to report the occurrence of non-alarmed events against T1 ports. Trouble events occurring in the C7 are classified as alarmed or non-alarmed events. Designation of specific trouble events as alarmed or non-alarmed events is explained in GR-474 and FR-475.

The event being reported may be the change of the status or the occurrence of an irregularity, which by itself is not severe enough to warrant an alarm notification. One example of this is a performance threshold crossing.

This message may also be used to report the recovery from off-normal or trouble conditions that were reported initially via REPT EVT T1. This is done by using the CONDTYPE sent by the original event report and using the value CL for CONDEFF.

This message may also be used to report the first occurrence of a loopback condition on a DS1. The way this would be accomplished is by using T1 REPT EVT T1 with the CONDTYPE parameter indicating the presence of a loopback.

Defined in GR-833.

Related Messages:

[DLT-AP-T1](#)
[DLT-GOS-T1](#)
[ED-GOS-T1](#)
[ENT-AP-T1](#)
[ENT-GOS-T1](#)
[INIT-REG-T1](#)
[REPT ALM T1](#)
[REPT RST T1](#)
[RMV-T1](#)
[RTRV-ALM-T1](#)
[RTRV-CRS-T1](#)
[RTRV-PM-T1](#)

[DLT-CRS-T1](#)
[DLT-T1](#)
[ED-T1](#)
[ENT-CRS-T1](#)
[ENT-T1](#)
[OPR-LPBK-T1](#)
[REPT RMV T1](#)
[RLS-LPBK-T1](#)
[RST-T1](#)
[RTRV-COND-T1](#)
[RTRV-GOS-T1](#)
[RTRV-T1](#)

Output Format

```

SID DATE TIME
A ATAG REPT EVT T1

"<Ds1Aid>:<CONDTYPE>,<CONDEFF>,<OCRDAT>,<OCRTM>,[<LOCN>],,[<MONVAL>],
[<THLEV>],[<TMPER>]"
;
```

Output Parameters

Ds1Aid	T1 Port Access Identifier. The address of the T1 port which caused the event is being generated. <i>Ds1Aid</i> is the AID TwelvePortLuAid .
CONDTYPE	Condition Type. This parameter identifies the condition type for the reported event. <i>CONDTYPE</i> is of type CondTypeT1 .
CONDEFF	Condition Effect. This parameter indicates the effect of the event on the C7. <i>CONDEFF</i> is of type ConditionEffect .
OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. <i>OCRDAT</i> is a Date.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time.
LOCN	Location. This parameter identifies the location associated with a particular alarm. <i>LOCN</i> is optional.

MONVAL	Monitored Value. This parameter is the measured value of a monitored parameter, which resulted in the threshold for a monitored parameter exceeding the defined or specified threshold level. <i>MONVAL</i> is a Integer. <i>MONVAL</i> is optional.
THLEV	Threshold Level. This parameter is the threshold level for the monitored parameter. <i>THLEV</i> is a Integer. <i>THLEV</i> is optional.
TMPER	Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. <i>TMPER</i> is of type PMPPeriod . <i>TMPER</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT EVT T1
"N4-3-1-5:T-UASP,TC,12-28,12-00-00,FEND,,332,330,1-DAY:"
;
```

REPT EVT T1TG

Name

REPT EVT T1TG: Report Event T1 Transport Group

Description

Category: Fault **Security:** Maintenance - read

Report Event T1TG is generated by a C7 to report the occurrence of non-alarmed events against a T1 transport interface group. Trouble events occurring in the C7 are classified as alarmed or non-alarmed events. Designation of specific trouble events as alarmed or non-alarmed events is explained in GR-474 and FR-475.

The event being reported may be the change of the status or the occurrence of an irregularity, which by itself is not severe enough to warrant an alarm notification. One example of this is a performance threshold crossing. This message may also be used to report the recovery from off-normal or trouble conditions that were reported initially via REPT EVT T1TG. This is done by using the CONDTYPE sent by the original event report and using the value CL for CONDEFF.

Defined in GR-833.

Related Messages:

[ALW-Swdx-GR303](#)
[DLT-CRS-T0](#)
[DLT-GR8](#)
[DLT-T1TG](#)

[ALW-Swdx-T1TG](#)
[DLT-GR303](#)
[DLT-IG-DS1](#)
[ED-GR303](#)

ED-GR8	ENT-CRS-T0
ENT-GR303	ENT-GR8
ENT-IG-DS1	ENT-T1TG
INH-Swdx-GR303	INH-Swdx-T1TG
REPT ALM GR303	REPT ALM T1TG
REPT EVT GR303	REPT SW GR303
REPT SW T1TG	RTRV-ALM-GR303
RTRV-ALM-T1TG	RTRV-COND-GR303
RTRV-COND-T1TG	RTRV-CRS-T0
RTRV-DLSTAT-GR303	RTRV-DLSTAT-T1TG
RTRV-GR303	RTRV-GR8
RTRV-IG-DS1	RTRV-T1TG
SW-DX-GR303	SW-DX-T1TG

Output Format

```

A SID DATE TIME
A ATAG REPT EVT T1TG
  "<IgLinkSwAid>:<CONDTYPE>, <CONDEFF>, <OCRDAT>, <OCRTM>"
;

```

Output Parameters

IgLinkSwAid T1TG Data Link Access Identifier. The address of the EOC/TMC data link for a T1 transport interface group entity which caused the event is being generated. *IgLinkSwAid* is the AID [IgLinkSwAid](#).

CONDTYPE Condition Type. This parameter identifies the condition type for the reported event. *CONDTYPE* is of type [CondTypeIg](#).

CONDEFF Condition Effect. This parameter indicates the effect of the event on the C7. *CONDEFF* is of type [ConditionEffect](#).

OCRDAT Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.

OCRTM Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT EVT T1TG
  "N5-3-IG6-TMC:TMCSIMPLEX,SC,12-28,12-00-00:"
;

```

REPT EVT T3

Name

REPT EVT T3: Report Event Digital Signal 3

Description

Category: Fault **Security:** Maintenance - read

Report Event T3 is generated by a C7 to report the occurrence of non-alarmed events against T3 ports. Trouble events occurring in the C7 are classified as alarmed or non-alarmed events. Designation of specific trouble events as alarmed or non-alarmed events is explained in GR-474 and FR-475.

The event being reported may be the change of the status or the occurrence of an irregularity, which by itself is not severe enough to warrant an alarm notification. One example of this is a performance threshold crossing.

This message may also be used to report the recovery from off-normal or trouble conditions that were reported initially via REPT EVT T3. This is done by using the CONDTYPE sent by the original event report and using the value CL for CONDEFF.

This message may also be used to report the first occurrence of a loopback condition on a DS3. The way this would be accomplished is by using REPT EVT T3 with the CONDTYPE parameter indicating the presence of a loopback.

Defined in GR-833.

Related Messages:

DLT-GOS-T3	DLT-T3
ED-GOS-T3	ED-T3
ENT-GOS-T3	ENT-T3
INIT-REG-T3	OPR-LPBK-T3
REPT ALM T3	REPT RMV T3
REPT RST T3	RLS-LPBK-T3
RMV-T3	RST-T3
RTRV-ALM-T3	RTRV-COND-T3
RTRV-GOS-T3	RTRV-PM-T3
RTRV-T3	

Output Format

<pre> SID DATE TIME A ATAG REPT EVT T3 "<Ds3Aid>:<CONDTYPE>,<CONDEFF>,<OCRDAT>,<OCRTM>,[<LOCN>],,[<MONVAL>], [<THLEV>],[<TMPER>]" ;</pre>

Output Parameters

Ds3Aid	T3 Port Access Identifier. The address of the T3 port which caused the event is being generated. <i>Ds3Aid</i> is the AID T3Aid .
CONDTYPE	Condition Type. This parameter identifies the condition type for the reported event. <i>CONDTYPE</i> is of type CondTypeT3 .
CONDEFF	Condition Effect. This parameter indicates the effect of the event on the C7. <i>CONDEFF</i> is of type ConditionEffect .
OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. <i>OCRDAT</i> is a Date.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time.
LOCN	Location. This parameter identifies the location associated with a particular alarm. <i>LOCN</i> is of type Location . <i>LOCN</i> is optional.
MONVAL	Monitored Value. This parameter is the measured value of a monitored parameter, which resulted in the threshold for a monitored parameter exceeding the defined or specified threshold level. <i>MONVAL</i> is a Integer. <i>MONVAL</i> is optional.
THLEV	Threshold Level. This parameter is the threshold level for the monitored parameter. <i>THLEV</i> is a Integer. <i>THLEV</i> is optional.
TMPER	Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. <i>TMPER</i> is of type PMPeriod . <i>TMPER</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT EVT T3
  "N3-1-3-1:T-UASCP-P,TC,12-28,12-00-00,FEND,,332,330,1-DAY:"
;

```

REPT EVT TMG

Name

REPT EVT TMG: Report Event Timing

Description

Category: Fault **Security:** Maintenance - read

Report Event Timing is generated by a C7 to report the occurrence of non-alarmed events against timing.

Trouble events occurring in the C7 are classified as alarmed or non-alarmed events. Designation of specific trouble events as alarmed or non-alarmed events is explained in GR-474 and FR-475.

The event being reported may be the change of the status or the occurrence of an irregularity, which by itself is not severe enough to warrant an alarm notification. One example of this is a performance threshold crossing.

This message may also be used to report the recovery from off-normal or trouble conditions that were reported initially via REPT EVT TMG. This is done by using the CONDTYPE sent by the original event report and using the value CL for CONDEFF.

Defined in GR-833

Related Messages:

[ED-TMG](#)

[REPT ALM TMG](#)

[RTRV-ALM-TMG](#)

[RTRV-TMG](#)

[OPR-SYNCNSW](#)

[RLS-SYNCNSW](#)

[RTRV-COND-TMG](#)

Output Format

```
SID DATE TIME
A ATAG REPT EVT TMG
  "<ShelfAid>:<CONDTYPE>, <CONDEFF>, <OCRDAT>, <OCRTM> "
;
```

Output Parameters

ShelfAid Shelf Access Identifier. The address of the shelf where the timing exists which caused the event is being generated. *ShelfAid* is the AID [ShelfAid](#).

CONDTYPE Condition Type. This parameter identifies the condition type for the reported event. *CONDTYPE* is of type [CondTypeTmg](#).

CONDEFF Condition Effect. This parameter indicates the effect of the event on the C7. *CONDEFF* is of type [ConditionEffect](#).

OCRDAT Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.

OCRTM Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.

Output Example

```
TID-000 98-06-20 14-30-00
A 001 REPT EVT TMG
  "N99-3:SYNCOOS,SC,12-28,12-00-00:"
;
```

REPT EVT TOPO

Name

REPT EVT TOPO: Report Event Topology

Description

Category: Fault **Security:** Maintenance - read

Report Event Topo is generated by a C7 to report the occurrence of non-alarmed events against topology. Trouble events occurring in the C7 are classified as alarmed or non-alarmed events.

Output Format

```

SID DATE TIME
A ATAG REPT EVT TOPO
  "<ShelfAid>:<CONDTYPE>, <CONDEFF>, <OCRDAT>, <OCRTM>"
;

```

Output Parameters

ShelfAid Shelf Access Identifier. *ShelfAid* is the AID [ShelfAid](#).

CONDTYPE Condition Type. This parameter identifies the condition type for the reported event. *CONDTYPE* is of type [CondTypeAll](#).

CONDEFF Condition Effect. This parameter indicates the effect of the event on the C7. *CONDEFF* is of type [ConditionEffect](#).

OCRDAT Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.

OCRTM Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT EVT TOPO
  "N1-1:NORMAL,TC,12-28,12-00-00:"
;

```

REPT EVT VB

Name

REPT EVT VB: Report Event Virtual Bridge

Description

Category: Fault **Security:** Maintenance - read

Report Event Virtual Bridge is used to report virtual bridge events.

Related Messages:

DLT-CVIDREG	DLT-IGMP-JOIN
DLT-MACHOST	DLT-VB
DLT-VBPORT	DLT-VLAN-VBPORT
DLT-VR	DLT-VRPORT
ED-CVIDREG	ED-IGMP
ED-MACHOST	ED-VB
ED-VBPORT	ED-VLAN-VBPORT
ED-VR	ENT-CVIDREG
ENT-IGMP-JOIN	ENT-MACHOST
ENT-VB	ENT-VBPORT
ENT-VLAN-VBPORT	ENT-VR
ENT-VRPORT	REPT ALM VB
REPT ALM VR	REPT EVT VR
RTRV-ALM-VB	RTRV-ALM-VR
RTRV-CVIDREG	RTRV-IGMP
RTRV-IGMP-JOIN	RTRV-MACHOST
RTRV-VB	RTRV-VBPORT
RTRV-VLAN-VBPORT	RTRV-VR
RTRV-VRPORT	

Output Format

```

SID DATE TIME
A ATAG REPT EVT VB
"<VbAid>:<CONDTYPE>, <CONDEFF>, <OCRDAT>, <OCRTM>: , , [ <OBSDBHVR> ] "
;

```

Output Parameters

VbAid Virtual Bridge Access Identifier *VbAid* is the AID [VbAid](#).

CONDTYPE Condition Type *CONDTYPE* is of type [CondTypeVb](#).

CONDEFF Condition Effect. *CONDEFF* is of type [ConditionEffect](#).

OCRDAT Occurrence Date. *OCRDAT* is a Date.

OCRTM Occurrence Time. *OCRTM* is a Time.

OBSDBHVR Observed Behavior. *OBSDBHVR* is a String. *OBSDBHVR* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
A 001 REPT EVT VB
  "N5-3-VB1:RSTPRECVDSTPFRAME,TC,12-28,12-05-18:,,\"MESSAGE\""
;
```

REPT EVT VC

Name

REPT EVT VC: Report Event VC

Description

Category: Fault **Security:** Maintenance - read

Report Event VC is generated by a C7 to report the occurrence of non-alarmed events against VC ports. Trouble events occurring in the C7 are classified as alarmed or non-alarmed events. Designation of specific trouble events as alarmed or non-alarmed events is explained in GR-474 and FR-475.

The event being reported may be the change of the status or the occurrence of an irregularity, which by itself is not severe enough to warrant an alarm notification. One example of this is a performance threshold crossing.

This message may also be used to report the recovery from off-normal or trouble conditions that were reported initially via REPT EVT VC. This is done by using the CONDTYPE sent by the original event report and using the value CL for CONDEFF.

Defined in GR-833.

Related Messages:

[ACT-PROTN-VC](#)
[DLT-CRS-VC](#)
[DLT-PP](#)
[ED-CRS-VC](#)
[ED-PROF-TRF](#)
[ENT-CRS-VP](#)
[ENT-PROF-TRF](#)
[INIT-CSTAT-VC](#)
[INIT-CSTAT-VP](#)

[ACT-PROTN-VP](#)
[DLT-CRS-VP](#)
[DLT-PROF-TRF](#)
[ED-CRS-VP](#)
[ENT-CRS-VC](#)
[ENT-PP](#)
[INIT-CSTAT-VC](#)
[INJ-LPBK-VC](#)

INJ-LPBK-VP	MV-CRS-VC
MV-CRS-VP	OPR-CC-VC
OPR-CC-VP	REPT ALM PP
REPT EVT PP	REPT EVT VP
REPT RMV PP	REPT RST PP
RLS-CC-VC	RLS-CC-VP
RMV-PP	RST-PP
RTRV-ALM-PP	RTRV-COND-PP
RTRV-CRS-VC	RTRV-CRS-VP
RTRV-CSTAT-VC	RTRV-CSTAT-VP
RTRV-PP	RTRV-PROF-TRF
RTRV-VTI	

Output Format

```

SID DATE TIME
A ATAG REPT EVT VC
"<VcAid>:<CONDTYPE>, <CONDEFF>, <OCRDAT>, <OCRTM>, [ <LOCN> ], [ <MONVAL> ] "
;
```

Output Parameters

- VcAid** VC Port Access Identifier. The address of the VC port which caused the event is being generated. *VcAid* is the AID [VcId](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type for the reported event. *CONDTYPE* is of type [CondTypeVcVpEvt](#).
- CONDEFF** Condition Effect. This parameter indicates the effect of the event on the C7. *CONDEFF* is of type [ConditionEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.
- LOCN** Location. This parameter identifies the location associated with a particular alarm. *LOCN* is of type [Location](#). *LOCN* is optional.
- MONVAL** Monitored Value. This parameter is the measured value of a monitored parameter, which resulted in the threshold for a monitored parameter exceeding the defined or specified threshold level. *MONVAL* is a Integer. *MONVAL* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT EVT VC
"N4-3-1-5-VP100-VC100:T-UASP,TC,12-28,12-00-00,FEND,332:"
;
```

REPT EVT VIDSUB

Name

REPT EVT VIDSUB: Report Event VIDSUB

Description

Category: Fault **Security:** Maintenance - read

Report Events related to Video Subscriber

Output Format

```

SID DATE TIME
A ATAG REPT EVT VIDSUB
"<VidSubAid>:<CONDTYPE>, <CONDEFF>, <OCRDAT>, <OCRTM>: , , [ <OBSDBHVR> ] "
;
```

Output Parameters

- VidSubAid** Video Subscriber Access Identifier - The port or channel to which subscribers are connected. Usually an ADSL Channel or ONT (or vdsl in the future) port. *VidSubAid* is the AID [VidSubAid](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type for the reported event. *CONDTYPE* is of type [CondTypeVidSub](#).
- CONDEFF** condition Effect. This parameter indicates the effect of the event on the C7. *CONDEFF* is of type [ConditionEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.
- OBSDBHVR** Observed Behavior. The observed behavior or other information relevant to the event reported. *OBSDBHVR* is a String. *OBSDBHVR* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT EVT VIDSUB
"N6-3-11-1-CH0:VIDSUBNOBW,TC,3-4,15-15-
15:,,\SUBADDR=11.1.1.182\""
;
```

REPT EVT VODFLOW

Name

REPT EVT VODFLOW: Report Event VOD Flow

Description

Category: Fault **Security:** Maintenance - read

Report Event VOD Flow is generated by a C7 to report the occurrence of non-alarmed events against VOD Flows. Trouble events occurring in the C7 are classified as alarmed or non-alarmed events. Designation of specific trouble events as alarmed or non-alarmed events is explained in GR-474 and FR-475.

The event being reported may be the change of the status or the occurrence of an irregularity, which by itself is not severe enough to warrant an alarm notification. One example of this is a performance threshold crossing.

This message may also be used to report the recovery from off-normal or trouble conditions that were reported initially via REPT EVT VODFLOW. This is done by using the CONDTYPE sent by the original event report and using the value CL for CONDEFF.

Defined in GR-833.

Related Messages:

DLT-DHCP-OUI	DLT-IP-IF
DLT-IP-ROUTE	DLT-IPIF-PORT
DLT-SUBIF-BINDING	DLT-VID-CHAN
DLT-VID-IRCLOC	DLT-VID-SUB
DLT-VID-SVC	DLT-VODCLNT
DLT-VODDSTLU	DLT-VODFLOW
DLT-VODSRCLU	DLT-VODSVR
ED-ARP	ED-IPIF-PORT
ED-VID-CHAN	ED-VID-SUB
ED-VID-SVC	ED-VODDSTLU
ENT-DHCP-OUI	ENT-IP-IF
ENT-IP-ROUTE	ENT-IPIF-PORT
ENT-SUBIF-BINDING	ENT-VID-CHAN
ENT-VID-IRCLOC	ENT-VID-SUB
ENT-VID-SVC	ENT-VODDSTLU
RTRV-ARP	RTRV-DHCP-LEASE

[RTRV-DHCP-OUI](#)
[RTRV-IP-ROUTE](#)
[RTRV-SUBIF-BINDING](#)
[RTRV-VID-IRCLOC](#)
[RTRV-VID-SVC](#)
[RTRV-VODDSTLU](#)
[RTRV-VODSRCLU](#)

[RTRV-IP-IF](#)
[RTRV-IPIF-PORT](#)
[RTRV-VID-CHAN](#)
[RTRV-VID-SUB](#)
[RTRV-VODCLNT](#)
[RTRV-VODFLOW](#)
[RTRV-VODSVR](#)

Output Format

```

SID DATE TIME
A ATAG REPT EVT VODFLOW
" <VodFlowId>:<CONDTYPE>,<CONDEFF>,<OCRDAT>,<OCRTM>,[<LOCN>]:,,
[<OBSDBHVR>]""
;
```

Output Parameters

- VodFlowId** Id of the VOD Subscriber *VodFlowId* is the AID [VodFlowAid](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type for the reported event. *CONDTYPE* is of type [CondTypeVodFlow](#).
- CONDEFF** Condition Effect. This parameter indicates the effect of the event on the C7. *CONDEFF* is of type [ConditionEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time.
- LOCN** Location. This parameter identifies the location associated with a particular alarm. *LOCN* is of type [Location](#). *LOCN* is optional.
- OBSDBHVR** Observed Behavior. The observed behavior or other information relevant to the event reported. *OBSDBHVR* is a String. *OBSDBHVR* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT EVT VODFLOW
"1:VODFLOWFAIL,TC,12-28,12-00-00,NEND:,,"ERROR
0X123456768\"
;
```

REPT EVT VP

Name

REPT EVT VP: Report Event VP

Description

Category: Fault **Security:** Maintenance - read

Report Event VP is generated by a C7 to report the occurrence of non-alarmed events against VP ports. Trouble events occurring in the C7 are classified as alarmed or non-alarmed events. Designation of specific trouble events as alarmed or non-alarmed events is explained in GR-474 and FR-475.

The event being reported may be the change of the status or the occurrence of an irregularity, which by itself is not severe enough to warrant an alarm notification. One example of this is a performance threshold crossing.

This message may also be used to report the recovery from off-normal or trouble conditions that were reported initially via REPT EVT VP. This is done by using the CONDTYPE sent by the original event report and using the value CL for CONDEFF.

Related Messages:

[ACT-PROTN-VC](#)

[DLT-CRS-VC](#)

[DLT-PP](#)

[ED-CRS-VC](#)

[ED-PROF-TRF](#)

[ENT-CRS-VP](#)

[ENT-PROF-TRF](#)

[INIT-CSTAT-VP](#)

[INJ-LPBK-VP](#)

[MV-CRS-VP](#)

[OPR-CC-VP](#)

[REPT EVT PP](#)

[REPT RMV PP](#)

[RLS-CC-VC](#)

[RMV-PP](#)

[RTRV-ALM-PP](#)

[RTRV-CRS-VC](#)

[RTRV-CSTAT-VC](#)

[RTRV-PP](#)

[RTRV-VTI](#)

[ACT-PROTN-VP](#)

[DLT-CRS-VP](#)

[DLT-PROF-TRF](#)

[ED-CRS-VP](#)

[ENT-CRS-VC](#)

[ENT-PP](#)

[INIT-CSTAT-VC](#)

[INJ-LPBK-VC](#)

[MV-CRS-VC](#)

[OPR-CC-VC](#)

[REPT ALM PP](#)

[REPT EVT VC](#)

[REPT RST PP](#)

[RLS-CC-VP](#)

[RST-PP](#)

[RTRV-COND-PP](#)

[RTRV-CRS-VP](#)

[RTRV-CSTAT-VP](#)

[RTRV-PROF-TRF](#)

Output Format

<pre> SID DATE TIME A ATAG REPT EVT VP "<VpAid>:<CONDTYPE>, <CONDEFF>, <OCRDAT>, <OCRTM>, [<LOCN>], [<MONVAL>] " ;</pre>
--

Output Parameters

VpAid	VP Port Access Identifier. The address of the VP port which caused the event is being generated. <i>VpAid</i> is the AID VpAid .
CONDTYPE	Condition Type. This parameter identifies the condition type for the reported event. <i>CONDTYPE</i> is of type CondTypeVcVpEvt .
CONDEFF	Condition Effect. This parameter indicates the effect of the event on the C7. <i>CONDEFF</i> is of type ConditionEffect .
OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. <i>OCRDAT</i> is a Date.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time.
LOCN	Location. This parameter identifies the location associated with a particular alarm. <i>LOCN</i> is of type Location . <i>LOCN</i> is optional.
MONVAL	Monitored Value. This parameter is the measured value of a monitored parameter, which resulted in the threshold for a monitored parameter exceeding the defined or specified threshold level. <i>MONVAL</i> is a Integer. <i>MONVAL</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
A 001 REPT EVT VP
"N4-3-1-5-VP100:T-UASP,TC,12-28,12-00-00,FEND,332:"
;
```

REPT EVT VR

Name

REPT EVT VR: Report Event Virtual Router

Description

Category: Fault **Security:** Maintenance - read

Report Event Virual Router is used to report virtual router events.

Related Messages:

[DLT-CVIDREG](#)

[DLT-IGMP-JOIN](#)

DLT-MACHOST	DLT-VB
DLT-VBPORT	DLT-VLAN-VBPORT
DLT-VR	DLT-VRPORT
ED-CVIDREG	ED-IGMP
ED-MACHOST	ED-VB
ED-VBPORT	ED-VLAN-VBPORT
ED-VR	ENT-CVIDREG
ENT-IGMP-JOIN	ENT-MACHOST
ENT-VB	ENT-VBPORT
ENT-VLAN-VBPORT	ENT-VR
ENT-VRPORT	REPT ALM VB
REPT ALM VR	REPT EVT VB
RTRV-ALM-VB	RTRV-ALM-VR
RTRV-CVIDREG	RTRV-IGMP
RTRV-IGMP-JOIN	RTRV-MACHOST
RTRV-VB	RTRV-VBPORT
RTRV-VLAN-VBPORT	RTRV-VR
RTRV-VRPORT	

Output Format

```
A SID DATE TIME
A ATAG REPT EVT VR
"<VrAid>:<CONDTYPE>,<CONDEFF>,<OCRDAT>,<OCRTM>:,,[<OBSDBHVR>]"
;
```

Output Parameters

VrAid Virtual Router Access Identifier. *VrAid* is the AID [VrAid](#).

CONDTYPE Condition Type. *CONDTYPE* is of type [CondTypeVr](#).

CONDEFF Condition Effect. *CONDEFF* is of type [ConditionEffect](#).

OCRDAT Occurrence Date. *OCRDAT* is a Date.

OCRTM Occurrence Time. *OCRTM* is a Time.

OBSDBHVR Observed Behavior. *OBSDBHVR* is a String. *OBSDBHVR* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
A 001 REPT EVT VR
"N5-3-VR7:DHCPIINTFADDR,TC,12-28,12-05-18:,,\"MESSAGE\""
;
```

REPT RMV <OCN>

Name

REPT RMV <[OCN](#)>: Report Remove (OC12, OC3, OC48)

Description

Category: OCn Facility **Security:** Maintenance - read

The event is generated by a C7 after it has autonomously removed from service the OCn port.

Defined in GR-833.

Related Messages:

DLT-<OCN>	DLT-FFP-<OCN>
DLT-GOS-<OCN>	ED-<OCN>
ED-FFP-<OCN>	ED-GOS-<OCN>
ENT-<OCN>	ENT-FFP-<OCN>
ENT-GOS-<OCN>	INIT-REG-<OCN>
OPR-LPBK-<OCN>	OPR-PROTNSW-<OCN>
REPT ALM <OCN>	REPT EVT <OCN>
REPT RST <OCN>	RLS-LPBK-<OCN>
RLS-PROTNSW-<OCN>	RMV-<OCN>
RST-<OCN>	RTRV-<OCN>
RTRV-ALM-<OCN>	RTRV-COND-<OCN>
RTRV-FFP-<OCN>	RTRV-GOS-<OCN>
RTRV-PM-<OCN>	

Output Format

```

A   SID DATE TIME
A   ATAG REPT RMV <OCN>
    "<OcNAid>:<PST>, [<SST>] "
;
```

Output Parameters

OcNAid OCn Access Identifier. The address of the OCn port which was autonomously removed from service. *OcNAid* is the AID [FourPortLuAndRapAid](#).

PST Primary Service State. This parameter is the primary service state into which the entity was placed. *PST* is of type [PrimaryState](#).

SST Secondary Service State. This parameter is the secondary service state into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
A 001 REPT RMV OC12
  "N3-1-4-10:OOS-AU,FAF"
;
```

REPT RMV <STSN>

Name

REPT RMV <[STSN](#)>: Report Remove (STS1, STS12C, STS3C, STS48C)

Description

Category: STSn Path **Security:** Maintenance - read

The event is generated by a C7 after it has autonomously removed from service the STS path.

Defined in GR-833.

Related Messages:

[DLT-<STSN>](#)

[DLT-GOS-<STSN>](#)

[ED-CRS-<STSN>](#)

[ENT-<STSN>](#)

[ENT-GOS-<STSN>](#)

[OPR-PROTNSW-<STSN>](#)

[REPT EVT <STSN>](#)

[RLS-PROTNSW-<STSN>](#)

[RST-<STSN>](#)

[RTRV-ALM-<STSN>](#)

[RTRV-CRS-<STSN>](#)

[RTRV-PM-<STSN>](#)

[DLT-CRS-<STSN>](#)

[ED-<STSN>](#)

[ED-GOS-<STSN>](#)

[ENT-CRS-<STSN>](#)

[INIT-REG-<STSN>](#)

[REPT ALM <STSN>](#)

[REPT RST <STSN>](#)

[RMV-<STSN>](#)

[RTRV-<STSN>](#)

[RTRV-COND-<STSN>](#)

[RTRV-GOS-<STSN>](#)

Output Format

```
SID DATE TIME
A ATAG REPT RMV <STSN>
  "<StsAid>:<PST>, [<SST>] "
;
```

Output Parameters

- StsAid** STS Path Access Identifier. The address of the STS path which was autonomously removed from service. *StsAid* is the AID [StsAid](#).
- PST** Primary Service State. This parameter is the primary service state into which the entity was placed. *PST* is of type [PrimaryState](#).
- SST** Secondary Service State. This parameter is the secondary service state into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
A 001 REPT RMV STS1
  "N3-1-4-1-1-1:OOS-AU,FAF"
;
```

REPT RMV ADSL

Name

REPT RMV ADSL: Report Remove Asymmetric Digital Subscriber Line

Description

Category: ADSL Facility **Security:** Maintenance - read

The event is generated by a C7 after it has autonomously removed from service the ADSL port.

Defined in GR-833.

Related Messages:

[DLT-ADSL](#)

[DLT-TMPLT-ADSL](#)

[ED-GOS-ADSL](#)

[ENT-GOS-ADSL](#)

[INIT-ADSL](#)

[INIT-REG-ADSL](#)

[REPT EVT ADSL](#)

[RMV-ADSL](#)

[RTRV-ADSL](#)

[RTRV-COND-ADSL](#)

[RTRV-GOS-ADSL](#)

[DLT-GOS-ADSL](#)

[ED-ADSL](#)

[ENT-ADSL](#)

[ENT-TMPLT-ADSL](#)

[INIT-PWR-ADSL](#)

[REPT ALM ADSL](#)

[REPT RST ADSL](#)

[RST-ADSL](#)

[RTRV-ALM-ADSL](#)

[RTRV-CSTAT-ADSL](#)

[RTRV-PM-ADSL](#)

RTRV-TMPLT-ADSL

Output Format

```

SID DATE TIME
A ATAG REPT RMV ADSL
  "<AdslAid>:<PST>, [<SST>]"
;
```

Output Parameters

AdslAid ADSL Port Access Identifier. The address of the ADSL port which was autonomously removed from service. *AdslAid* is the AID [TwentyFourPortLuAid](#).

PST Primary Service State. This parameter is the primary service state into which the entity was placed. *PST* is of type [PrimaryState](#).

SST Secondary Service State. This parameter is the secondary service state into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT RMV ADSL
  "N3-1-4-1:OOS-AU,FAF"
;
```

REPT RMV AP

Name

REPT RMV AP: Report Remove ATM Resource Port

Description

Category: IMA Group

Security: Maintenance - read

The event is generated by a C7 after it has autonomously removed from service the ATM Resource port.

Defined in GR-833.

Related Messages:

[DLT-AP](#)

[DLT-GOS-AP](#)

[DLT-GOS-IMALINK](#)

[DLT-AP-T1](#)

[DLT-GOS-IMA](#)

[DLT-IMA](#)

DLT-IMA-PORT	ED-AP
ED-GOS-AP	ED-GOS-IMA
ED-GOS-IMALINK	ED-IMA
ENT-AP	ENT-AP-T1
ENT-GOS-AP	ENT-GOS-IMA
ENT-GOS-IMALINK	ENT-IMA
ENT-IMA-PORT	INIT-REG-AP
INIT-REG-IMA	INIT-REG-IMALINK
REPT ALM AP	REPT ALM IMA
REPT ALM IMALINK	REPT EVT AP
REPT EVT IMA	REPT EVT IMALINK
REPT RST AP	RMV-AP
RMV-IMA	RST-AP
RST-IMA	RTRV-ALM-AP
RTRV-ALM-IMA	RTRV-ALM-IMALINK
RTRV-AP	RTRV-COND-AP
RTRV-COND-IMA	RTRV-GOS-AP
RTRV-GOS-IMA	RTRV-GOS-IMALINK
RTRV-IMA	RTRV-PM-AP
RTRV-PM-IMA	RTRV-PM-IMALINK

Output Format

```

    SID DATE TIME
A  ATAG REPT RMV AP
  "<ApAid>:<PST>, [<SST> ]"
;

```

Output Parameters

ApAid *ApAid* is the AID [AtmRscPortAid](#).

PST Primary Service State. This parameter is the primary service state of the ADSL port into which the entity was placed. *PST* is of type [PrimaryState](#).

SST Secondary Service State. This parameter is the secondary service state of the ADSL port into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT RMV AP
  "N3-1-4-AP10:OOS-AU,FAF"
;

```

REPT RMV AVO

Name

REPT RMV AVO: Report Remove Analog Video Receiver Port

Description

Category: PON **Security:** Maintenance - read

The event is generated by a C7 after it has autonomously removed from service the Analog Video Overlay port.

Defined in GR-833.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT

[RTRV-PROF-ONT](#)
[RTRV-STAT-HPNA](#)
[RTRV-VCG](#)
[RTRV-VRP](#)

[RTRV-RFVID](#)
[RTRV-STAT-RFR](#)
[RTRV-VDS1](#)
[TST-ONT-MET](#)

Output Format

```
    SID DATE TIME
A  ATAG REPT RMV AVO
  "<OntPortAid>:<PST>, [<SST> ]"
;
```

Output Parameters

- OntPortAid** Analog Video Overlay Port Access Identifier. The address of the AVO port. *OntPortAid* is the AID [OntPortAid](#).
- PST** Primary Service State. This parameter is the primary service state into which the entity was placed. *PST* is of type [PrimaryState](#).
- SST** Secondary Service State. This parameter is the secondary service state into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```
    TID-000 98-06-20 14-30-00
A  001 REPT RMV AVO
  "N2-4-6-1-18-1:OOS-AU,FAF"
;
```

REPT RMV EC1

Name

REPT RMV EC1: Report Remove Electrical Carrier Level 1

Description

Category: EC1 Facility **Security:** Maintenance - read

The event is generated by a C7 after it has autonomously removed from service the EC1 port.

Defined in GR-833.

Related Messages:

DLT-EC1	DLT-GOS-EC1
ED-EC1	ED-GOS-EC1
ENT-EC1	ENT-GOS-EC1
INIT-REG-EC1	OPR-LPBK-EC1
REPT ALM EC1	REPT EVT EC1
REPT RST EC1	RLS-LPBK-EC1
RMV-EC1	RST-EC1
RTRV-ALM-EC1	RTRV-COND-EC1
RTRV-EC1	RTRV-GOS-EC1
RTRV-PM-EC1	

Output Format

```

SID DATE TIME
A ATAG REPT RMV EC1
  "<Ec1Aid>:<PST>, [<SST> ] "
;

```

Output Parameters

Ec1Aid EC1 Port Access Identifier. The address of the EC1 port which was autonomously removed from service. *Ec1Aid* is the AID [TwelvePortLuAid](#).

PST Primary Service State. This parameter is the primary service state into which the entity was placed. *PST* is of type [PrimaryState](#).

SST Secondary Service State. This parameter is the secondary service state into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT RMV EC1
  "N3-1-3-2:OOS-AU,SGEO"
;

```

REPT RMV EQPT

Name

REPT RMV EQPT: Report Remove Equipment

Description

Category: Equipment**Security:** Maintenance - full

The event is generated by a C7 after it has autonomously removed from service the equipment.

Defined in GR-833.

Related Messages:

[ALW-SWDX-EQPT](#)
[ALW-SWTOWKG-EQPT](#)
[ED-EQPT](#)
[INH-SWDX-EQPT](#)
[INH-SWTOWKG-EQPT](#)
[REPT EVT EQPT](#)
[RMV-EQPT](#)
[RTRV-ALM-EQPT](#)
[RTRV-EQPT](#)
[SW-TOPROTN-EQPT](#)

[ALW-SWTOPROTN-EQPT](#)
[DLT-EQPT](#)
[ENT-EQPT](#)
[INH-SWTOPROTN-EQPT](#)
[REPT ALM EQPT](#)
[REPT RST EQPT](#)
[RST-EQPT](#)
[RTRV-COND-EQPT](#)
[SW-DX-EQPT](#)
[SW-TOWKG-EQPT](#)

Output Format

```
SID DATE TIME
A ATAG REPT RMV EQPT
"<EqptAid>:<PST>, [<SST> ]"
;
```

Output Parameters

EqptAid Equipment Access Identifier. The address of the equipment which was autonomously removed from service. *EqptAid* is the AID [EquipmentId](#).

PST Primary Service State. This parameter is the primary service state into which the entity was placed. *PST* is of type [PrimaryState](#).

SST Secondary Service State. This parameter is the secondary service state into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
A 001 REPT RMV EQPT
"N3-1-4:OOS-AU,UEQ"
;
```

REPT RMV ETH

Name

REPT RMV ETH: Report Remove Ethernet Port

Description

Category: Ethernet **Security:** Maintenance - read

The event is generated by a C7 after it has autonomously removed from service the Ethernet port.

Related Messages:

[DLT-AGG](#)
[DLT-AGG-PORT](#)
[DLT-ETH-ACL](#)
[DLT-LSWITCH](#)
[DLT-PROF-ETH](#)
[DLT-VLAN-PORT](#)
[ED-ETH](#)
[ED-VLAN](#)
[ED-VLAN-VBPORT](#)
[ENT-AGG-ACL](#)
[ENT-ETH](#)
[ENT-GOS-ETH](#)
[ENT-LSWITCH-PORT](#)
[ENT-VLAN](#)
[ENT-VLAN-VBPORT](#)
[INIT-STAT-ETH](#)
[REPT EVT ETH](#)
[RMV-ETH](#)
[RTRV-AGG](#)
[RTRV-AGG-PORT](#)
[RTRV-COND-ETH](#)
[RTRV-ETH-ACL](#)
[RTRV-LSWITCH](#)
[RTRV-PM-ETH](#)
[RTRV-STAT-ETH](#)
[RTRV-VLAN-PORT](#)

[DLT-AGG-ACL](#)
[DLT-ETH](#)
[DLT-GOS-ETH](#)
[DLT-LSWITCH-PORT](#)
[DLT-VLAN](#)
[DLT-VLAN-VBPORT](#)
[ED-GOS-ETH](#)
[ED-VLAN-PORT](#)
[ENT-AGG](#)
[ENT-AGG-PORT](#)
[ENT-ETH-ACL](#)
[ENT-LSWITCH](#)
[ENT-PROF-ETH](#)
[ENT-VLAN-PORT](#)
[INIT-LSWITCH](#)
[REPT ALM ETH](#)
[REPT RST ETH](#)
[RST-ETH](#)
[RTRV-AGG-ACL](#)
[RTRV-ALM-ETH](#)
[RTRV-ETH](#)
[RTRV-GOS-ETH](#)
[RTRV-LSWITCH-PORT](#)
[RTRV-PROF-ETH](#)
[RTRV-VLAN](#)
[RTRV-VLAN-VBPORT](#)

Output Format

A	SID DATE TIME
	ATAG REPT RMV ETH
	"<EthAid>:<PST>, [<SST>] "
;	

Output Parameters

- EthAid** Ethernet Port Access Identifier. The address of the port which was autonomously removed from service. *EthAid* is the AID [TwelvePortLuAid](#).
- PST** Primary Service State. This parameter is the primary service state into which the entity was placed. *PST* is of type [PrimaryState](#).
- SST** Secondary Service State. This parameter is the secondary service state into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
A 001 REPT RMV ETH
"N3-1-4-2:OOS-AU,FAF"
;
```

REPT RMV HDSL

Name

REPT RMV HDSL: Report Remove High bit rate Digital Subscriber Line

Description

Category: HDSL Facility **Security:** Maintenance - read

The event is generated by a C7 after it has autonomously removed from service the HDSL port.

Defined in GR-833.

Related Messages:

[DLT-GOS-HDSL](#)
[ED-GOS-HDSL](#)
[ENT-GOS-HDSL](#)
[INIT-HDSL](#)
[OPR-LPBK-HDSL](#)
[REPT EVT HDSL](#)
[RLS-LPBK-HDSL](#)
[RST-HDSL](#)
[RTRV-COND-HDSL](#)
[RTRV-GOS-HDSL](#)

[DLT-HDSL](#)
[ED-HDSL](#)
[ENT-HDSL](#)
[INIT-REG-HDSL](#)
[REPT ALM HDSL](#)
[REPT RST HDSL](#)
[RMV-HDSL](#)
[RTRV-ALM-HDSL](#)
[RTRV-CSTAT-HDSL](#)
[RTRV-HDSL](#)

[RTRV-HTU](#)[RTRV-PM-HDSL](#)

Output Format

```

SID DATE TIME
A ATAG REPT RMV HDSL
  "<HdslAid>:<PST>, [ <SST> ]"
;

```

Output Parameters

HdslAid HDSL Port Access Identifier. The address of the HDSL port which was removed from service.
HdslAid is the AID [SixPortLuAid](#).

PST Primary Service State. This parameter is the primary service state into which the entity was placed. *PST* is of type [PrimaryState](#).

SST Secondary Service State. This parameter is the secondary service state into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT RMV HDSL
  "N3-1-4-3:OOS-AU,FAF"
;

```

REPT RMV ONT

Name

REPT RMV ONT: Report Remove Optical Network Termination

Description

Category: PON **Security:** Maintenance - read

The event is generated by a C7 after it has autonomously removed the ONT from service.

Defined in GR-833.

Related Messages:

[DLT-AVO](#)
[DLT-GOS-ONT](#)
[DLT-IG-VDS1](#)
[DLT-ONT](#)
[DLT-PROF-ONT](#)
[DLT-RFVID](#)

DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Output Format

```

SID DATE TIME
A ATAG REPT RMV ONT
" <OntAid> : <PST> , [ <SST> ] "
;

```

Output Parameters

- OntAid** Optical Network Termination Access Identifier. The address of the ONT which was removed from service. *OntAid* is the AID [OntAid](#).
- PST** Primary Service State. This parameter is the primary service state into which the entity was placed. *PST* is of type [PrimaryState](#).
- SST** Secondary Service State. This parameter is the secondary service state into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
A 001 REPT RMV PON
"N2-3-12-1-23:OOS-AU,FAF"
;
```

REPT RMV PON

Name

REPT RMV PON: Report Remove Passive Optical Network

Description

Category: PON **Security:** Maintenance - read

The event is generated by a C7 after it has autonomously removed the PON port from service.

Defined in GR-833.

Output Format

```
SID DATE TIME
A ATAG REPT RMV PON
"<PonAid>:<PST>, [<SST> ] "
;
```

Output Parameters

PonAid Passive Optical Network Access Identifier. The address of the PON port which was removed from service. *PonAid* is the AID [FourPortLuAid](#).

PST Primary Service State. This parameter is the primary service state into which the entity was placed. *PST* is of type [PrimaryState](#).

SST Secondary Service State. This parameter is the secondary service state into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
A 001 REPT RMV PON
"N2-3-12-1-23:OOS-AU,FAF"
;
```

REPT RMV PP

Name

REPT RMV PP: Report Remove PP

Description

Category: Virtual Facility **Security:** Maintenance - read

The event is generated by a C7 after it has autonomously removed from service the pseudo port.

Related Messages:

ACT-PROTN-VC	ACT-PROTN-VP
DLT-CRS-VC	DLT-CRS-VP
DLT-PP	DLT-PROF-TRF
ED-CRS-VC	ED-CRS-VP
ED-PROF-TRF	ENT-CRS-VC
ENT-CRS-VP	ENT-PP
ENT-PROF-TRF	INIT-CSTAT-VC
INIT-CSTAT-VP	INJ-LPBK-VC
INJ-LPBK-VP	MV-CRS-VC
MV-CRS-VP	OPR-CC-VC
OPR-CC-VP	REPT ALM PP
REPT EVT PP	REPT EVT VC
REPT EVT VP	REPT RST PP
RLS-CC-VC	RLS-CC-VP
RMV-PP	RST-PP
RTRV-ALM-PP	RTRV-COND-PP
RTRV-CRS-VC	RTRV-CRS-VP
RTRV-CSTAT-VC	RTRV-CSTAT-VP
RTRV-PP	RTRV-PROF-TRF
RTRV-VTI	

Output Format

```

SID DATE TIME
A ATAG REPT RMV PP
"<PPAid>:<PST>, [ <SST> ] "
;
```

Output Parameters

- PPAid** Pseudo Port Access Identifier. The address of the pseudo port which was autonomously removed from service. *PPAid* is the AID [PpAid](#).
- PST** Primary Service State. This parameter is the primary service state into which the entity was placed. *PST* is of type [PrimaryState](#).
- SST** Secondary Service State. This parameter is the secondary service state into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
A 001 REPT RMV PP
  "N3-1-4-PP1:OOS-AU,SGEO"
;
```

REPT RMV RFVID

Name

REPT RMV RFVID: Report Remove Rf-Video Port

Description

Category: PON **Security:** Maintenance - read

The event is generated by a C7 after it has autonomously removed from service the Rf-Video port.

Defined in GR-833.

Related Messages:

[DLT-AVO](#)
[DLT-IG-VDS1](#)
[DLT-PROF-ONT](#)
[DLT-VCG](#)
[ED-AVO](#)
[ED-ONT](#)
[ED-RFVID](#)
[ED-VRP](#)
[ENT-GOS-ONT](#)
[ENT-ONT](#)

[DLT-GOS-ONT](#)
[DLT-ONT](#)
[DLT-RFVID](#)
[DLT-VRP](#)
[ED-GOS-ONT](#)
[ED-PROF-ONT](#)
[ED-VCG](#)
[ENT-AVO](#)
[ENT-IG-VDS1](#)
[ENT-PROF-ONT](#)

ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV ONT	REPT RST AVO
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Output Format

```

A SID DATE TIME
A ATAG REPT RMV RFVID
  "<OntPortAid>:<PST>, [<SST>]"
;
```

Output Parameters

OntPortAid Rf-Video Port Access Identifier. The address of the RFVID port. *OntPortAid* is the AID [OntPortAid](#).

PST Primary Service State. This parameter is the primary service state into which the entity was placed. *PST* is of type [PrimaryState](#).

SST Secondary Service State. This parameter is the secondary service state into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```

A TID-000 98-06-20 14-30-00
A 001 REPT RMV RFVID
  "N2-4-6-1-18-1:OOS-AU,FAF"
;
```

REPT RMV T0

Name

REPT RMV T0: Report Remove Digital Signal Zero

Description

Category: DS0 Facility **Security:** Maintenance - read

The event is generated by a C7 after it has autonomously removed from service the T0 port.

Defined in GR-833.

Related Messages:

DLT-CRS-T0	DLT-T0
ED-T0	ENT-CRS-T0
ENT-T0	REPT ALM T0
REPT EVT T0	REPT RST T0
RMV-T0	RST-T0
RTRV-ALM-T0	RTRV-COND-T0
RTRV-CRS-T0	RTRV-CSTAT-T0
RTRV-T0	

Output Format

```

SID DATE TIME
A ATAG REPT RMV T0
"<T0Aid>:<PST>, [<SST>]"
;
```

Output Parameters

T0Aid T0 Port Access Identifier. The address of the T0 port which was autonomously removed from service. *T0Aid* is the AID [TwentyFourPortLuAid](#).

PST Primary Service State. This parameter is the primary service state into which the entity was placed. *PST* is of type [PrimaryState](#).

SST Secondary Service State. This parameter is the secondary service state into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

A	TID-000 98-06-20 14-30-00
	001 REPT RMV T0
	"N3-1-4-3-3:OOS-AU,FAF"
;	

REPT RMV T1

Name

REPT RMV T1: Report Remove Digital Signal 1

Description

Category: DS1 Facility **Security:** Maintenance - read

The event is generated by a C7 after it has autonomously removed from service the T1 port.

Defined in GR-833.

Related Messages:

DLT-AP-T1	DLT-CRS-T1
DLT-GOS-T1	DLT-T1
ED-GOS-T1	ED-T1
ENT-AP-T1	ENT-CRS-T1
ENT-GOS-T1	ENT-T1
INIT-REG-T1	OPR-LPBK-T1
REPT ALM T1	REPT EVT T1
REPT RST T1	RLS-LPBK-T1
RMV-T1	RST-T1
RTRV-ALM-T1	RTRV-COND-T1
RTRV-CRS-T1	RTRV-GOS-T1
RTRV-PM-T1	RTRV-T1

Output Format

A	SID DATE TIME
	ATAG REPT RMV T1
	"<Ds1Aid>:<PST>, [<SST>]"
;	

Output Parameters

Ds1Aid T1 Port Access Identifier. The address of the T1 port which was autonomously removed from

service. *DsIAid* is the AID [TwelvePortLuAid](#).

- PST** Primary Service State. This parameter is the primary service state into which the entity was placed. *PST* is of type [PrimaryState](#).
- SST** Secondary Service State. This parameter is the secondary service state into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
A 001 REPT RMV T1
"N3-1-4-3:OOS-AU,FAF"
;
```

REPT RMV T3

Name

REPT RMV T3: Report Remove Digital Signal 3

Description

Category: DS3 Facility **Security:** Maintenance - read

The event is generated by a C7 after it has autonomously removed from service the T3 port.

Defined in GR-833.

Related Messages:

DLT-GOS-T3	DLT-T3
ED-GOS-T3	ED-T3
ENT-GOS-T3	ENT-T3
INIT-REG-T3	OPR-LPBK-T3
REPT ALM T3	REPT EVT T3
REPT RST T3	RLS-LPBK-T3
RMV-T3	RST-T3
RTRV-ALM-T3	RTRV-COND-T3
RTRV-GOS-T3	RTRV-PM-T3
RTRV-T3	

Output Format

SID	DATE	TIME
-----	------	------

```
A ATAG REPT RMV T3
  "<Ds3Aid>:<PST>, [ <SST> ] "
;
```

Output Parameters

- Ds3Aid** T3 Port Access Identifier. The address of the T3 port which was autonomously removed from service. *Ds3Aid* is the AID [T3Aid](#).
- PST** Primary Service State. This parameter is the primary service state into which the entity was placed. *PST* is of type [PrimaryState](#).
- SST** Secondary Service State. This parameter is the secondary service state into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
A 001 REPT RMV T3
  "N3-1-4-3:OOS-AU,FAF"
;
```

REPT RST <OCN>

Name

REPT RST <[OCN](#)>: Report Restore (OC12, OC3, OC48)

Description

Category: OCn Facility **Security:** Maintenance - by rate

The event is generated by a C7 after it has autonomously restored to service the OC12 port.

Defined in GR-833.

Related Messages:

[DLT-<OCN>](#)
[DLT-GOS-<OCN>](#)
[ED-FFP-<OCN>](#)
[ENT-<OCN>](#)
[ENT-GOS-<OCN>](#)
[OPR-LPBK-<OCN>](#)
[REPT ALM <OCN>](#)

[DLT-FFP-<OCN>](#)
[ED-<OCN>](#)
[ED-GOS-<OCN>](#)
[ENT-FFP-<OCN>](#)
[INIT-REG-<OCN>](#)
[OPR-PROTNSTW-<OCN>](#)
[REPT EVT <OCN>](#)

[REPT RMV <OCN>](#)
[RLS-PROTNSW-<OCN>](#)
[RST-<OCN>](#)
[RTRV-ALM-<OCN>](#)
[RTRV-FFP-<OCN>](#)
[RTRV-PM-<OCN>](#)

[RLS-LPBK-<OCN>](#)
[RMV-<OCN>](#)
[RTRV-<OCN>](#)
[RTRV-COND-<OCN>](#)
[RTRV-GOS-<OCN>](#)

Output Format

```
SID DATE TIME
A ATAG REPT RST <OCN>
  "<OcNAid>:<PST>, [<SST> ] "
;
```

Output Parameters

OcNAid OCn Port Access Identifier. The address of the OCn port which was autonomously restored to service. *OcNAid* is the AID [FourPortLuAndRapAid](#).

PST Primary Service State. This parameter is the primary service state of the OC12 port into which the entity was placed. *PST* is of type [PrimaryState](#).

SST Secondary Service State. This parameter is the secondary service state of the OC12 port into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
A 001 REPT RST OC12
  "N3-1-3-3:IS-NR,ADA"
;
```

REPT RST <STSN>

Name

REPT RST <[STSN](#)>: Report Restore (STS1, STS12C, STS3C, STS48C)

Description

Category: STSn Path **Security:** Maintenance - by rate

The event is generated by a C7 after it has autonomously restored to service the STS path.

Defined in GR-833.

Related Messages:

[DLT-<STSN>](#)
[DLT-GOS-<STSN>](#)
[ED-CRS-<STSN>](#)
[ENT-<STSN>](#)
[ENT-GOS-<STSN>](#)
[OPR-PROTNSW-<STSN>](#)
[REPT EVT <STSN>](#)
[RLS-PROTNSW-<STSN>](#)
[RST-<STSN>](#)
[RTRV-ALM-<STSN>](#)
[RTRV-CRS-<STSN>](#)
[RTRV-PM-<STSN>](#)

[DLT-CRS-<STSN>](#)
[ED-<STSN>](#)
[ED-GOS-<STSN>](#)
[ENT-CRS-<STSN>](#)
[INIT-REG-<STSN>](#)
[REPT ALM <STSN>](#)
[REPT RMV <STSN>](#)
[RMV-<STSN>](#)
[RTRV-<STSN>](#)
[RTRV-COND-<STSN>](#)
[RTRV-GOS-<STSN>](#)

Output Format

```

SID DATE TIME
A ATAG REPT RST <STSN>
"<StsAid>:<PST>, [<SST>] "
;
```

Output Parameters

- StsAid** STS Path Access Identifier. The address of the STS path which was autonomously restored to service. *StsAid* is the AID [StsAid](#).
- PST** Primary Service State. This parameter is the primary service state of the STS1 facility into which the entity was placed. *PST* is of type [PrimaryState](#).
- SST** Secondary Service State. This parameter is the secondary service state of the STS1 facility into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT RST STS1
"N3-1-3-1-1-1:IS-NR,ADA"
;
```

REPT RST ADSL

Name

REPT RST ADSL: Report Restore Asymmetric Digital Subscriber Line

Description

Category: ADSL Facility **Security:** Maintenance - by rate

The event is generated by a C7 after it has autonomously restored to service the ADSL port.

Defined in GR-833.

Related Messages:

[DLT-ADSL](#)

[DLT-TMPLT-ADSL](#)

[ED-GOS-ADSL](#)

[ENT-GOS-ADSL](#)

[INIT-ADSL](#)

[INIT-REG-ADSL](#)

[REPT EVT ADSL](#)

[RMV-ADSL](#)

[RTRV-ADSL](#)

[RTRV-COND-ADSL](#)

[RTRV-GOS-ADSL](#)

[RTRV-TMPLT-ADSL](#)

[DLT-GOS-ADSL](#)

[ED-ADSL](#)

[ENT-ADSL](#)

[ENT-TMPLT-ADSL](#)

[INIT-PWR-ADSL](#)

[REPT ALM ADSL](#)

[REPT RMV ADSL](#)

[RST-ADSL](#)

[RTRV-ALM-ADSL](#)

[RTRV-CSTAT-ADSL](#)

[RTRV-PM-ADSL](#)

Output Format

```

SID DATE TIME
A ATAG REPT RST ADSL
  "<AdslAid>:<PST>, [<SST>]"
;
```

Output Parameters

AdslAid ADSL Port Access Identifier. The address of the port which was autonomously restored to service. *AdslAid* is the AID [TwentyFourPortLuAid](#).

PST Primary Service State. This parameter is the primary service state of the ADSL port into which the entity was placed. *PST* is of type [PrimaryState](#).

SST Secondary Service State. This parameter is the secondary service state of the ADSL port into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT RST ADSL
  "N3-1-3-3:IS-NR,ADA"
;
```

REPT RST AP

Name

REPT RST AP: Report Restore ATM Resource Port

Description

Category: IMA Group **Security:** Maintenance - by rate

The event is generated by a C7 after it has autonomously restored to service the ATM Resource port.

Defined in GR-833.

Related Messages:

[DLT-AP](#)

[DLT-GOS-AP](#)

[DLT-GOS-IMALINK](#)

[DLT-IMA-PORT](#)

[ED-GOS-AP](#)

[ED-GOS-IMALINK](#)

[ENT-AP](#)

[ENT-GOS-AP](#)

[ENT-GOS-IMALINK](#)

[ENT-IMA-PORT](#)

[INIT-REG-IMA](#)

[REPT ALM AP](#)

[REPT ALM IMALINK](#)

[REPT EVT IMA](#)

[REPT RMV AP](#)

[RMV-IMA](#)

[RST-IMA](#)

[RTRV-ALM-IMA](#)

[RTRV-AP](#)

[RTRV-COND-IMA](#)

[RTRV-GOS-IMA](#)

[RTRV-IMA](#)

[RTRV-PM-IMA](#)

[DLT-AP-T1](#)

[DLT-GOS-IMA](#)

[DLT-IMA](#)

[ED-AP](#)

[ED-GOS-IMA](#)

[ED-IMA](#)

[ENT-AP-T1](#)

[ENT-GOS-IMA](#)

[ENT-IMA](#)

[INIT-REG-AP](#)

[INIT-REG-IMALINK](#)

[REPT ALM IMA](#)

[REPT EVT AP](#)

[REPT EVT IMALINK](#)

[RMV-AP](#)

[RST-AP](#)

[RTRV-ALM-AP](#)

[RTRV-ALM-IMALINK](#)

[RTRV-COND-AP](#)

[RTRV-GOS-AP](#)

[RTRV-GOS-IMALINK](#)

[RTRV-PM-AP](#)

[RTRV-PM-IMALINK](#)

Output Format

A	ATAG	REPT	RST	AP " <ApAid>:[<PST>], [<SST>]" ;
---	------	------	-----	--

Output Parameters

ApAid *ApAid* is the AID [AtmRscPortAid](#).

PST Primary Service State. This parameter is the primary service state of the ADSL port into which the entity was placed. *PST* is of type [PrimaryState](#). *PST* is optional.

SST Secondary Service State. This parameter is the secondary service state of the ADSL port into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

A	TID-000	98-06-20	14-30-00
	001	REPT	RST AP "N3-1-3-AP4:IS-NR,ADA"
;			

REPT RST AVO

Name

REPT RST AVO: Report Restore Analog Video Receiver Port

Description

Category: PON **Security:** Maintenance - by rate

The event is generated by a C7 after it has autonomously restored to service the Analog Video Overlay port.

Defined in GR-833.

Related Messages:

[DLT-AVO](#)
[DLT-IG-VDS1](#)
[DLT-PROF-ONT](#)
[DLT-VCG](#)
[ED-AVO](#)
[ED-ONT](#)
[ED-RFVID](#)

[DLT-GOS-ONT](#)
[DLT-ONT](#)
[DLT-RFVID](#)
[DLT-VRP](#)
[ED-GOS-ONT](#)
[ED-PROF-ONT](#)
[ED-VCG](#)

ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV ONT	REPT RMV RFVID
REPT RST ONT	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Output Format

```

SID DATE TIME
A ATAG REPT RST AVO
  "<OntPortAid>:<PST>, [ <SST> ] "
;

```

Output Parameters

- OntPortAid** Analog Video Overlay Port Access Identifier. The address of the AVO port. *OntPortAid* is the AID [OntPortAid](#).
- PST** Primary Service State. This parameter is the primary service state into which the entity was placed. *PST* is of type [PrimaryState](#).
- SST** Secondary Service State. This parameter is the secondary service state into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT RST AVO

```

"N2-4-6-1-18-1:IS-NR,ADA"
;

REPT RST EC1

Name

REPT RST EC1: Report Restore Electrical Carrier Level 1

Description

Category: EC1 Facility **Security:** Maintenance - by rate

The event is generated by a C7 after it has autonomously restored to service the EC1 port.

Defined in GR-833.

Related Messages:

[DLT-EC1](#)
[ED-EC1](#)
[ENT-EC1](#)
[INIT-REG-EC1](#)
[REPT ALM EC1](#)
[REPT RMV EC1](#)
[RMV-EC1](#)
[RTRV-ALM-EC1](#)
[RTRV-EC1](#)
[RTRV-PM-EC1](#)

[DLT-GOS-EC1](#)
[ED-GOS-EC1](#)
[ENT-GOS-EC1](#)
[OPR-LPBK-EC1](#)
[REPT EVT EC1](#)
[RLS-LPBK-EC1](#)
[RST-EC1](#)
[RTRV-COND-EC1](#)
[RTRV-GOS-EC1](#)

Output Format

```
    SID DATE TIME
A  ATAG REPT RST EC1
    "<Ec1Aid>:<PST>, [<SST>] "
;
```

Output Parameters

Ec1Aid EC1 Port Access Identifier. The address of the port which was autonomously restored to service. *Ec1Aid* is the AID [TwelvePortLuAid](#).

PST Primary Service State. This parameter is the primary service state into which the entity was placed. *PST* is of type [PrimaryState](#).

SST Secondary Service State. This parameter is the secondary service state into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
A 001 REPT RST EC1
  "N3-1-3-2:IS-NR,ADA"
;
```

REPT RST EQPT

Name

REPT RST EQPT: Report Restore Equipment

Description

Category: Equipment **Security:** Maintenance - full

The event is generated by a C7 after it has autonomously restored to service the equipment.

Defined in GR-833.

Related Messages:

[ALW-Swdx-EQPT](#)
[ALW-SWTOWKG-EQPT](#)
[ED-EQPT](#)
[INH-Swdx-EQPT](#)
[INH-SWTOWKG-EQPT](#)
[REPT EVT EQPT](#)
[RMV-EQPT](#)
[RTRV-ALM-EQPT](#)
[RTRV-EQPT](#)
[SW-TOPROTN-EQPT](#)

[ALW-SWTOPROTN-EQPT](#)
[DLT-EQPT](#)
[ENT-EQPT](#)
[INH-SWTOPROTN-EQPT](#)
[REPT ALM EQPT](#)
[REPT RMV EQPT](#)
[RST-EQPT](#)
[RTRV-COND-EQPT](#)
[SW-DX-EQPT](#)
[SW-TOWKG-EQPT](#)

Output Format

```
SID DATE TIME
A ATAG REPT RST EQPT
  "<EqptAid>:<PST>, [ <SST> ] "
;
```

Output Parameters

EqptAid Equipment Access Identifier. The address of the equipment which was autonomously restored to service. *EqptAid* is the AID [EquipmentId](#).

PST Primary Service State. This parameter is the primary service state of the equipment into which the entity was placed. *PST* is of type [PrimaryState](#).

SST Secondary Service State. This parameter is the secondary service state of the equipment into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
A 001 REPT RST EQPT
"N3-4-1:IS-NR,ADA"
;
```

REPT RST ETH

Name

REPT RST ETH: Report Restore ETH

Description

Category: Ethernet **Security:** Maintenance - by rate

The event is generated by a C7 after it has autonomously restored to service the Ethernet port.

Related Messages:

[DLT-AGG](#)
[DLT-AGG-PORT](#)
[DLT-ETH-ACL](#)
[DLT-LSWITCH](#)
[DLT-PROF-ETH](#)
[DLT-VLAN-PORT](#)
[ED-ETH](#)
[ED-VLAN](#)
[ED-VLAN-VBPORT](#)
[ENT-AGG-ACL](#)
[ENT-ETH](#)
[ENT-GOS-ETH](#)

[DLT-AGG-ACL](#)
[DLT-ETH](#)
[DLT-GOS-ETH](#)
[DLT-LSWITCH-PORT](#)
[DLT-VLAN](#)
[DLT-VLAN-VBPORT](#)
[ED-GOS-ETH](#)
[ED-VLAN-PORT](#)
[ENT-AGG](#)
[ENT-AGG-PORT](#)
[ENT-ETH-ACL](#)
[ENT-LSWITCH](#)

ENT-LSWITCH-PORT	ENT-PROF-ETH
ENT-VLAN	ENT-VLAN-PORT
ENT-VLAN-VBPORT	INIT-LSWITCH
INIT-STAT-ETH	REPT ALM ETH
REPT EVT ETH	REPT RMV ETH
RMV-ETH	RST-ETH
RTRV-AGG	RTRV-AGG-ACL
RTRV-AGG-PORT	RTRV-ALM-ETH
RTRV-COND-ETH	RTRV-ETH
RTRV-ETH-ACL	RTRV-GOS-ETH
RTRV-LSWITCH	RTRV-LSWITCH-PORT
RTRV-PM-ETH	RTRV-PROF-ETH
RTRV-STAT-ETH	RTRV-VLAN
RTRV-VLAN-PORT	RTRV-VLAN-VBPORT

Output Format

```

SID DATE TIME
A ATAG REPT RST ETH
"<EthAid>:<PST>, [ <SST> ] "
;
```

Output Parameters

- EthAid** Ethernet Port Access Identifier. The address of the port which was autonomously restored to service. *EthAid* is the AID [TwelvePortLuAid](#).
- PST** Primary Service State. This parameter is the primary service state into which the entity was placed. *PST* is of type [PrimaryState](#).
- SST** Secondary Service State. This parameter is the secondary service state into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT RST ETH
"N3-1-3-2:IS-NR,ADA"
;
```

REPT RST HDSL

Name

REPT RST HDSL: Report Restore High bit rate Digital Subscriber Line

Description

Category: HDSL Facility **Security:** Maintenance - by rate

The event is generated by a C7 after it has autonomously restored to service the HDSL port.

Defined in GR-833.

Related Messages:

DLT-GOS-HDSL	DLT-HDSL
ED-GOS-HDSL	ED-HDSL
ENT-GOS-HDSL	ENT-HDSL
INIT-HDSL	INIT-REG-HDSL
OPR-LPBK-HDSL	REPT ALM HDSL
REPT EVT HDSL	REPT RMV HDSL
RLS-LPBK-HDSL	RMV-HDSL
RST-HDSL	RTRV-ALM-HDSL
RTRV-COND-HDSL	RTRV-CSTAT-HDSL
RTRV-GOS-HDSL	RTRV-HDSL
RTRV-HTU	RTRV-PM-HDSL

Output Format

```

SID DATE TIME
A ATAG REPT RST HDSL
"<HdslAid>:<PST>, <SST>"
;
```

Output Parameters

HdslAid HDSL Port Access Identifier. The address of the HDSL port which was autonomously restored to service. *HdslAid* is the AID [SixPortLuAid](#).

PST Primary Service State. This parameter is the primary service state into which the entity was placed. *PST* is of type [PrimaryState](#).

SST Secondary Service State. This parameter is the secondary service state into which the entity was placed. *SST* is of type [SecondaryState](#).

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT RST HDSL
"N3-1-4-3:IS-NR,ADA"
;
```

REPT RST ONT

Name

REPT RST ONT: Report Restore Optical Network Termination

Description

Category: PON **Security:** Maintenance - by rate

The event is generated by a C7 after it has autonomously restored the ONT to service.

Defined in GR-833.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV ONT	REPT RMV RFVID
REPT RST AVO	REPT RST RFVID
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT

[RTRV-ONT-UA](#)
[RTRV-PROF-ONT](#)
[RTRV-STAT-HPNA](#)
[RTRV-VCG](#)
[RTRV-VRP](#)

[RTRV-PM-ONT](#)
[RTRV-RFVID](#)
[RTRV-STAT-RFR](#)
[RTRV-VDS1](#)
[TST-ONT-MET](#)

Output Format

```
SID DATE TIME
A ATAG REPT RST ONT
"<OntAid>:<PST>, [ <SST> ] "
;
```

Output Parameters

- OntAid** Optical Network Termination Access Identifier. The address of the ONT which was autonomously restored to service. *OntAid* is the AID [OntAid](#).
- PST** Primary Service State. This parameter is the primary service state into which the entity was placed. *PST* is of type [PrimaryState](#).
- SST** Secondary Service State. This parameter is the secondary service state into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
A 001 REPT RST ONT
"N2-3-12-1-23:IS-NR,ADA"
;
```

REPT RST PON

Name

REPT RST PON: Report Restore Passive Optical Network

Description

Category: PON **Security:** Maintenance - by rate

The event is generated by a C7 after it has autonomously restored the PON port to service.

Defined in GR-833.

Output Format

```

SID DATE TIME
A ATAG REPT RST PON
  "<PonAid>:<PST>, [ <SST> ] "
;

```

Output Parameters

PonAid Passive Optical Network Access Identifier. The address of the PON port which was autonomously restored to service. *PonAid* is the AID [FourPortLuAid](#).

PST Primary Service State. This parameter is the primary service state into which the entity was placed. *PST* is of type [PrimaryState](#).

SST Secondary Service State. This parameter is the secondary service state into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT RST PON
  "N2-3-12-1:IS-NR,ADA"
;

```

REPT RST PP

Name

REPT RST PP: Report Restore Pseudo Port

Description

Category: Virtual Facility **Security:** Maintenance - by rate

The event is generated by a C7 after it has autonomously restored to service the pseudo port.

Defined in GR-833.

Related Messages:

[ACT-PROTN-VC](#)
[DLT-CRS-VC](#)
[DLT-PP](#)
[ED-CRS-VC](#)
[ED-PROF-TRF](#)

[ACT-PROTN-VP](#)
[DLT-CRS-VP](#)
[DLT-PROF-TRF](#)
[ED-CRS-VP](#)
[ENT-CRS-VC](#)

ENT-CRS-VP	ENT-PP
ENT-PROF-TRF	INIT-CSTAT-VC
INIT-CSTAT-VP	INJ-LPBK-VC
INJ-LPBK-VP	MV-CRS-VC
MV-CRS-VP	OPR-CC-VC
OPR-CC-VP	REPT ALM PP
REPT EVT PP	REPT EVT VC
REPT EVT VP	REPT RMV PP
RLS-CC-VC	RLS-CC-VP
RMV-PP	RST-PP
RTRV-ALM-PP	RTRV-COND-PP
RTRV-CRS-VC	RTRV-CRS-VP
RTRV-CSTAT-VC	RTRV-CSTAT-VP
RTRV-PP	RTRV-PROF-TRF
RTRV-VTI	

Output Format

```

SID DATE TIME
A ATAG REPT RST PP
"<PPAid>:<PST>, [ <SST> ] "
;
```

Output Parameters

- PPAid** Pseudo Port Access Identifier. The address of the pseudo port which was autonomously restored to service. *PPAid* is the AID [PpAid](#).
- PST** Primary Service State. This parameter is the primary service state into which the entity was placed. *PST* is of type [PrimaryState](#).
- SST** Secondary Service State. This parameter is the secondary service state into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT RST PP
"N3-1-3-PP1:IS-NR,ADA"
;
```

REPT RST RFVID

Name

REPT RST RFVID: Report Restore Rf-Video Port

Description

Category: PON **Security:** Maintenance - by rate

The event is generated by a C7 after it has autonomously restored to service the Rf-Video port.

Defined in GR-833.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV ONT	REPT RMV RFVID
REPT RST AVO	REPT RST ONT
RMV-AVO	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Output Format

```

SID DATE TIME
A ATAG REPT RST RFVID
  "<OntPortAid>:<PST>, [ <SST> ]"
;

```

Output Parameters

OntPortAid Rf-Video Port Access Identifier. The address of the RFVID port. *OntPortAid* is the AID [OntPortAid](#).

PST Primary Service State. This parameter is the primary service state into which the entity was placed. *PST* is of type [PrimaryState](#).

SST Secondary Service State. This parameter is the secondary service state into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT RST RFVID
  "N2-4-6-1-18-1:IS-NR,ADA"
;

```

REPT RST T0

Name

REPT RST T0: Report Restore Digital Signal Zero

Description

Category: DS0 Facility **Security:** Maintenance - by rate

The event is generated by a C7 after it has autonomously restored to service the T0 port.

Defined in GR-833.

Related Messages:

[DLT-CRS-T0](#)
[ED-T0](#)
[ENT-T0](#)
[REPT EVT T0](#)

[DLT-T0](#)
[ENT-CRS-T0](#)
[REPT ALM T0](#)
[REPT RMV T0](#)

[RMV-T0](#)
[RTRV-ALM-T0](#)
[RTRV-CRS-T0](#)
[RTRV-T0](#)

[RST-T0](#)
[RTRV-COND-T0](#)
[RTRV-CSTAT-T0](#)

Output Format

```
    SID DATE TIME
A  ATAG REPT RST T0
  "<T0Aid>:<PST>, [<SST>] "
;
```

Output Parameters

T0Aid T0 Port Access Identifier. The address of the T0 port which was autonomously restored to service. *T0Aid* is the AID [TwentyFourPortLuAid](#).

PST Primary Service State. This parameter is the primary service state of the T0 port into which the entity was placed. *PST* is of type [PrimaryState](#).

SST Secondary Service State. This parameter is the secondary service state of the T0 port into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```
    TID-000 98-06-20 14-30-00
A  001 REPT RST T0
  "N3-1-3-3:IS-NR,ADA"
;
```

REPT RST T1

Name

REPT RST T1: Report Restore Digital Signal 1

Description

Category: DS1 Facility **Security:** Maintenance - by rate

The event is generated by a C7 after it has autonomously restored to service the T1 port.

Defined in GR-833.

Related Messages:

DLT-AP-T1	DLT-CRS-T1
DLT-GOS-T1	DLT-T1
ED-GOS-T1	ED-T1
ENT-AP-T1	ENT-CRS-T1
ENT-GOS-T1	ENT-T1
INIT-REG-T1	OPR-LPBK-T1
REPT ALM T1	REPT EVT T1
REPT RMV T1	RLS-LPBK-T1
RMV-T1	RST-T1
RTRV-ALM-T1	RTRV-COND-T1
RTRV-CRS-T1	RTRV-GOS-T1
RTRV-PM-T1	RTRV-T1

Output Format

```

SID DATE TIME
A ATAG REPT RST T1
"<Ds1Aid>:<PST>, [<SST> ]"
;
```

Output Parameters

Ds1Aid T1 Port Access Identifier. The address of the T1 port which was autonomously restored to service. *Ds1Aid* is the AID [TwelvePortLuAid](#).

PST Primary Service State. This parameter is the primary service state into which the entity was placed. *PST* is of type [PrimaryState](#).

SST Secondary Service State. This parameter is the secondary service state into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT RST T1
"N3-1-3-3:IS-NR,ADA"
;
```

REPT RST T3

Name

REPT RST T3: Report Restore Digital Signal 3

Description

Category: DS3 Facility **Security:** Maintenance - by rate

The event is generated by a C7 after it has autonomously restored to service the T3 port.

Defined in GR-833.

Related Messages:

DLT-GOS-T3	DLT-T3
ED-GOS-T3	ED-T3
ENT-GOS-T3	ENT-T3
INIT-REG-T3	OPR-LPBK-T3
REPT ALM T3	REPT EVT T3
REPT RMV T3	RLS-LPBK-T3
RMV-T3	RST-T3
RTRV-ALM-T3	RTRV-COND-T3
RTRV-GOS-T3	RTRV-PM-T3
RTRV-T3	

Output Format

```

SID DATE TIME
A ATAG REPT RST T3
"<Ds3Aid>:<PST>, [<SST>]"
;
```

Output Parameters

Ds3Aid T3 Port Access Identifier. The address of the T3 port which was autonomously restored to service. *Ds3Aid* is the AID [T3Aid](#).

PST Primary Service State. This parameter is the primary service state into which the entity was placed. *PST* is of type [PrimaryState](#).

SST Secondary Service State. This parameter is the secondary service state into which the entity was placed. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT RST T3
"N3-1-3-1:IS-NR,ADA"
;
```

REPT SW

Name

REPT SW: Report Switch

Description

Category: Protection Switching

Security: Maintenance - full

Generated by the C7 after it has autonomously switched an active unit of equipment protection group to standby unit.

Defined in GR-833 and modified by Calix.

Output Format

```

SID DATE TIME
A ATAG REPT SW
"<ACTID>,<STBYID>
;
```

Output Parameters

ACTID Active Access Identifier. This parameter identifies the equipment unit that has been placed in the active state. *ACTID* is the AID [EquipmentId3](#).

STBYID Standby Access Identifier. This parameter identifies the equipment unit that has been placed in the standby state. *STBYID* is the AID [EquipmentId3](#).

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT SW
"N3-3-2,N3-3-1"
;
```

REPT SW GR303

Name

REPT SW GR303: Report Switch GR303

Description

Category: Protection Switching**Security:** Maintenance - full

Generated by the C7 after it has switched the active EOC/TMC to standby.

Defined in GR-833 and modified by Calix.

Related Messages:[ALW-Swdx-GR303](#)[ALW-Swdx-T1TG](#)[DLT-CRS-T0](#)[DLT-GR303](#)[DLT-GR8](#)[DLT-IG-DS1](#)[DLT-T1TG](#)[ED-GR303](#)[ED-GR8](#)[ENT-CRS-T0](#)[ENT-GR303](#)[ENT-GR8](#)[ENT-IG-DS1](#)[ENT-T1TG](#)[INH-Swdx-GR303](#)[INH-Swdx-T1TG](#)[REPT ALM GR303](#)[REPT ALM T1TG](#)[REPT EVT GR303](#)[REPT EVT T1TG](#)[REPT SW T1TG](#)[RTRV-ALM-GR303](#)[RTRV-ALM-T1TG](#)[RTRV-COND-GR303](#)[RTRV-COND-T1TG](#)[RTRV-CRS-T0](#)[RTRV-DLSTAT-GR303](#)[RTRV-DLSTAT-T1TG](#)[RTRV-GR303](#)[RTRV-GR8](#)[RTRV-IG-DS1](#)[RTRV-T1TG](#)[SW-DX-GR303](#)[SW-DX-T1TG](#)**Output Format**

```

SID DATE TIME
A ATAG REPT SW GR303
  "<ACTID>, <STBYID>"
;
```

Output Parameters

ACTID Active Access Identifier. This parameter identifies the EOC/TMC datalink that has been placed in the active state. *ACTID* is the AID [IgLinkAid](#).

STBYID Standby Access Identifier. This parameter identifies the EOC/TMC datalink that has been placed in the standby state. *STBYID* is the AID [IgLinkAid](#).

Output Example

```

TID-000 98-06-20 14-30-00
A 001 REPT SW GR303
  "N3-3-IG3-EOC-1, N3-3-IG3-EOC-2"
;
```

REPT SW T1TG

Name

REPT SW T1TG: Report Switch T1 Transport Group

Description

Category: Protection Switching

Security: Maintenance - full

Generated by the C7 after it has switched the active EOC/TMC to standby.

Defined in GR-833 and modified by Calix.

Related Messages:

[ALW-Swdx-GR303](#)

[ALW-Swdx-T1TG](#)

[DLT-CRS-T0](#)

[DLT-GR303](#)

[DLT-GR8](#)

[DLT-IG-DS1](#)

[DLT-T1TG](#)

[ED-GR303](#)

[ED-GR8](#)

[ENT-CRS-T0](#)

[ENT-GR303](#)

[ENT-GR8](#)

[ENT-IG-DS1](#)

[ENT-T1TG](#)

[INH-Swdx-GR303](#)

[INH-Swdx-T1TG](#)

[REPT ALM GR303](#)

[REPT ALM T1TG](#)

[REPT EVT GR303](#)

[REPT EVT T1TG](#)

[REPT SW GR303](#)

[RTRV-ALM-GR303](#)

[RTRV-ALM-T1TG](#)

[RTRV-COND-GR303](#)

[RTRV-COND-T1TG](#)

[RTRV-CRS-T0](#)

[RTRV-DLSTAT-GR303](#)

[RTRV-DLSTAT-T1TG](#)

[RTRV-GR303](#)

[RTRV-GR8](#)

[RTRV-IG-DS1](#)

[RTRV-T1TG](#)

[SW-DX-GR303](#)

[SW-DX-T1TG](#)

Output Format

A	SID DATE TIME
	ATAG REPT SW T1TG
	"<ACTID>, <STBYID>"
;	

Output Parameters

ACTID Active Access Identifier. This parameter identifies the EOC/TMC datalink that has been placed in the active state. *ACTID* is the AID [IgLinkAid](#).

STBYID Standby Access Identifier. This parameter identifies the EOC/TMC datalink that has been placed in the standby state. *STBYID* is the AID [IgLinkAid](#).

Output Example

```
TID-000 98-06-20 14-30-00
A 001 REPT SW T1TG
"N3-3-IG3-EOC-1,N3-3-IG3-EOC-2"
;
```

REPT-STAT

Name

REPT-STAT: Report Status

Description

Category: Loop Testing **Security:** Testing

This command is used to extended the current test timer. If an C7 does not receive a command from the TSC/RTU for a period of 75 seconds, it shall release any accesses that are up. This command is a keep alive command which will reset the 75 second timer.

Related Messages:

[CHG-SPLIT](#)

[CONN-LPACC-MET](#)

[CONN-TACC-MET](#)

[DISC-TACC](#)

[ED-FPACC](#)

[ENT-TGRP](#)

[RTRV-FPACC](#)

[TST-ONT-MET](#)

[CONN-FPACC-MET](#)

[CONN-MON](#)

[DISC-FPACC-MET](#)

[DLT-TGRP](#)

[ED-TGRP](#)

[RTRV-FPACC](#)

[TST-ITACC-MET](#)

Input Format

```
REPT-STAT:[TID]:::[CTAG];
```

Input Example

REPT-STAT:SYS1::987;

Errors

This message generates all of the [Default Errors](#).

RLS-CC-VC

Name

RLS-CC-VC: Release CC VC

Description

Category: Virtual Facility **Security:** Maintenance - by rate

This command will release the continuous monitoring continuity check which is being performed on the Virtual Circuit.

Defined by Calix.

Related Messages:

ACT-PROTN-VC	ACT-PROTN-VP
DLT-CRS-VC	DLT-CRS-VP
DLT-PP	DLT-PROF-TRF
ED-CRS-VC	ED-CRS-VP
ED-PROF-TRF	ENT-CRS-VC
ENT-CRS-VP	ENT-PP
ENT-PROF-TRF	INIT-CSTAT-VC
INIT-CSTAT-VP	INJ-LPBK-VC
INJ-LPBK-VP	MV-CRS-VC
MV-CRS-VP	OPR-CC-VC
OPR-CC-VP	REPT ALM PP
REPT EVT PP	REPT EVT VC
REPT EVT VP	REPT RMV PP
REPT RST PP	RLS-CC-VP
RMV-PP	RST-PP
RTRV-ALM-PP	RTRV-COND-PP
RTRV-CRS-VC	RTRV-CRS-VP
RTRV-CSTAT-VC	RTRV-CSTAT-VP

[RTRV-PP](#)
[RTRV-VTI](#)

[RTRV-PROF-TRF](#)

Input Format

```
RLS-CC-VC:[TID]:<VcAid>:[CTAG]::<CCTYPE>;
```

Input Parameters

VcAid Virtual Circuit Access Identifier. The address of the VC for which the continuity check will be released. *VcAid* is the AID [VcId](#).

CCTYPE Continuity Check Type This parameter specifies whether the continuity check to be deleted looks on the INTernal SEGment toward the linecard from the port, on the EXternalSEGment from the port toward the facility, or END-TO-END. *CCTYPE* is of type [CcType](#).

Input Example

```
RLS-CC-VC:SYS1:N1-1-3-1-1-VP345-VC8839:CT3::END-TO-END;
```

Errors

This message generates all of the [Default Errors](#).

RLS-CC-VP

Name

RLS-CC-VP: Release CC VP

Description

Category: Virtual Facility **Security:** Maintenance - by rate

This command will release the continuous monitoring continuity check which is being performed on the Virtual Path.

Defined by Calix.

Related Messages:

[ACT-PROTN-VC](#)
[DLT-CRS-VC](#)

[ACT-PROTN-VP](#)
[DLT-CRS-VP](#)

DLT-PP	DLT-PROF-TRF
ED-CRS-VC	ED-CRS-VP
ED-PROF-TRF	ENT-CRS-VC
ENT-CRS-VP	ENT-PP
ENT-PROF-TRF	INIT-CSTAT-VC
INIT-CSTAT-VP	INJ-LPBK-VC
INJ-LPBK-VP	MV-CRS-VC
MV-CRS-VP	OPR-CC-VC
OPR-CC-VP	REPT ALM PP
REPT EVT PP	REPT EVT VC
REPT EVT VP	REPT RMV PP
REPT RST PP	RLS-CC-VC
RMV-PP	RST-PP
RTRV-ALM-PP	RTRV-COND-PP
RTRV-CRS-VC	RTRV-CRS-VP
RTRV-CSTAT-VC	RTRV-CSTAT-VP
RTRV-PP	RTRV-PROF-TRF
RTRV-VTI	

Input Format

`RLS-CC-VP : [TID] : <VpAid> : [CTAG] :: <CCTYPE> ;`

Input Parameters

VpAid Virtual Path Access Identifier. The address of the VP for which the continuity check will be released. *VpAid* is the AID [VpAid](#).

CCTYPE Continuity Check Type This parameter specifies whether the continuity check to be deleted looks on the INTernal SEGment toward the linecard from the port, on the EXternalSEGment from the port toward the facility, or END-TO-END. An INVALID parameter releases any continuity check that exists on the VP. *CCTYPE* is of type [CcType](#).

Input Example

`RLS-CC-VP : SYS1 : N1 - 1 - 3 - 1 - 1 - VP345 : CT3 :: END-TO-END ;`

Errors

This message generates all of the [Default Errors](#).

RLS-EXT-CONT

Name

RLS-EXT-CONT: Release External Control

Description

Category: Environment **Security:** Maintenance - full

Instructs an C7 to release an external control. The control can be released momentarily or continuously, and can be operated by using the OPR-EXT-CONT (Operate External Control) command.

Defined in GR-833.

Related Messages:

[OPR-EXT-CONT](#)

[REPT ALM ENV](#)

[REPT EVT CONT](#)

[RTRV-ALM-ENV](#)

[RTRV-ATTR-CONT](#)

[RTRV-ATTR-ENV](#)

[RTRV-COND-ENV](#)

[RTRV-EXT-CONT](#)

[SET-ATTR-CONT](#)

[SET-ATTR-ENV](#)

Input Format

```
RLS-EXT-CONT:[TID]:<ExtContAid>:[CTAG]::[<DUR>];
```

Input Parameters

ExtContAid External Control Access Identifier. The address of the external control which is being released. *ExtContAid* is the AID [ExtControlAid](#).

DUR Duration. This parameter indicate the duration that the external control should be operated. *DUR* is of type [Duration](#). The default value is "CONTS".

Input Example

```
RLS-EXT-CONT:SYS1:N5-EXT2:555::CONTS;
```

Errors

This message generates all of the [Default Errors](#).

RLS-LPBK-<OCN>

Name

RLS-LPBK-<[OCN](#)>: Release Loopback (OC12, OC3, OC48)

Description

Category: OCn Facility **Security:** Maintenance - by rate

Instructs a C7 to release a loop back on the specified line.

Defined in GR-833.

Related Messages:

[DLT-<OCN>](#)

[DLT-GOS-<OCN>](#)

[ED-FFP-<OCN>](#)

[ENT-<OCN>](#)

[ENT-GOS-<OCN>](#)

[OPR-LPBK-<OCN>](#)

[REPT ALM <OCN>](#)

[REPT RMV <OCN>](#)

[RLS-PROTNSW-<OCN>](#)

[RST-<OCN>](#)

[RTRV-ALM-<OCN>](#)

[RTRV-FFP-<OCN>](#)

[RTRV-PM-<OCN>](#)

[DLT-FFP-<OCN>](#)

[ED-<OCN>](#)

[ED-GOS-<OCN>](#)

[ENT-FFP-<OCN>](#)

[INIT-REG-<OCN>](#)

[OPR-PROTNSW-<OCN>](#)

[REPT EVT <OCN>](#)

[REPT RST <OCN>](#)

[RMV-<OCN>](#)

[RTRV-<OCN>](#)

[RTRV-COND-<OCN>](#)

[RTRV-GOS-<OCN>](#)

Input Format

```
RLS-LPBK-<OCN>: [ TID ]:<OcNAid>:[ CTAG ] ;
```

Input Parameters

OcNAid OCn Port Access Identifier. The address of the port to have its loopback released. *OcNAid* is the AID [FourPortLuAndRapAid](#).

Input Example

```
RLS-LPBK-OC12:SYS3:N55-3-1-1:4321 ;
```

Errors

This message generates all of the [Default Errors](#).

RLS-LPBK-EC1

Name

RLS-LPBK-EC1: Release Loopback Electrical Carrier

Description

Category: EC1 Facility **Security:** Maintenance - by rate

Instructs a C7 to release a loop back on the specified line.

Related Messages:

[DLT-EC1](#)

[ED-EC1](#)

[ENT-EC1](#)

[INIT-REG-EC1](#)

[REPT ALM EC1](#)

[REPT RMV EC1](#)

[RMV-EC1](#)

[RTRV-ALM-EC1](#)

[RTRV-EC1](#)

[RTRV-PM-EC1](#)

[DLT-GOS-EC1](#)

[ED-GOS-EC1](#)

[ENT-GOS-EC1](#)

[OPR-LPBK-EC1](#)

[REPT EVT EC1](#)

[REPT RST EC1](#)

[RST-EC1](#)

[RTRV-COND-EC1](#)

[RTRV-GOS-EC1](#)

Input Format

RLS-LPBK-EC1 : [TID] : <Ec1Aid> : [CTAG] ;

Input Parameters

Ec1Aid Access Identifier. The address of the port to have its loopback released. *Ec1Aid* is the AID [TwelvePortLuAid](#).

Input Example

RLS-LPBK-EC1 : SYS3 : N55-3-1-1 : 4321 ;

Errors

This message generates all of the [Default Errors](#).

RLS-LPBK-HDSL

Name

RLS-LPBK-HDSL: Release Loopback High bit rate Digital Subscriber Line

Description

Category: HDSL Facility **Security:** Maintenance - by rate

Instructs a C7 to release a loop back on the specified line.

Defined in GR-833.

Related Messages:

[DLT-GOS-HDSL](#)

[DLT-HDSL](#)

[ED-GOS-HDSL](#)

[ED-HDSL](#)

[ENT-GOS-HDSL](#)

[ENT-HDSL](#)

[INIT-HDSL](#)

[INIT-REG-HDSL](#)

[OPR-LPBK-HDSL](#)

[REPT ALM HDSL](#)

[REPT EVT HDSL](#)

[REPT RMV HDSL](#)

[REPT RST HDSL](#)

[RMV-HDSL](#)

[RST-HDSL](#)

[RTRV-ALM-HDSL](#)

[RTRV-COND-HDSL](#)

[RTRV-CSTAT-HDSL](#)

[RTRV-GOS-HDSL](#)

[RTRV-HDSL](#)

[RTRV-HTU](#)

[RTRV-PM-HDSL](#)

Input Format

```
RLS-LPBK-HDSL:[TID]:<HdslAid>:[CTAG];
```

Input Parameters

HdslAid HDSL Port Access Identifier. The address of the HDSL port for which the loop back will be released. *HdslAid* is the AID [SixPortLuAid](#).

Input Example

```
RLS-LPBK-HDSL:SYS3:N55-3-1-4:4321;
```

Errors

This message generates all of the [Default Errors](#).

RLS-LPBK-T1

Name

RLS-LPBK-T1: Release Loopback Digital Signal One

Description

Category: DS1 Facility **Security:** Maintenance - by rate

Instructs a C7 to release a loop back on the specified line.

Defined in GR-833.

Related Messages:

[DLT-AP-T1](#)

[DLT-GOS-T1](#)

[ED-GOS-T1](#)

[ENT-AP-T1](#)

[ENT-GOS-T1](#)

[INIT-REG-T1](#)

[REPT ALM T1](#)

[REPT RMV T1](#)

[RMV-T1](#)

[RTRV-ALM-T1](#)

[RTRV-CRS-T1](#)

[RTRV-PM-T1](#)

[DLT-CRS-T1](#)

[DLT-T1](#)

[ED-T1](#)

[ENT-CRS-T1](#)

[ENT-T1](#)

[OPR-LPBK-T1](#)

[REPT EVT T1](#)

[REPT RST T1](#)

[RST-T1](#)

[RTRV-COND-T1](#)

[RTRV-GOS-T1](#)

[RTRV-T1](#)

Input Format

RLS-LPBK-T1 : [TID] : <Ds1Aid> : [CTAG] ;

Input Parameters

Ds1Aid T1 Port Access Identifier. The address of the T1 port for which the loop back will be released.

Ds1Aid is the AID [TwelvePortLuAid](#).

Input Example

```
RLS-LPBK-T1:SYS3:N55-3-1-4:4321;
```

Errors

This message generates all of the [Default Errors](#).

RLS-LPBK-T3

Name

RLS-LPBK-T3: Release Loopback Digital Signal 3

Description

Category: DS3 Facility **Security:** Maintenance - by rate

Instructs a C7 to release a loop back on the specified line.

Defined in GR-833.

Related Messages:

[DLT-GOS-T3](#)

[DLT-T3](#)

[ED-GOS-T3](#)

[ED-T3](#)

[ENT-GOS-T3](#)

[ENT-T3](#)

[INIT-REG-T3](#)

[OPR-LPBK-T3](#)

[REPT ALM T3](#)

[REPT EVT T3](#)

[REPT RMV T3](#)

[REPT RST T3](#)

[RMV-T3](#)

[RST-T3](#)

[RTRV-ALM-T3](#)

[RTRV-COND-T3](#)

[RTRV-GOS-T3](#)

[RTRV-PM-T3](#)

[RTRV-T3](#)

Input Format

```
RLS-LPBK-T3:[TID]:<Ds3Aid>:[CTAG];
```

Input Parameters

Ds3Aid T3 Port Access Identifier. The address of the T3 port for which the loop back will be released.
Ds3Aid is the AID [T3Aid](#).

Input Example

```
RLS-LPBK-T3:SYS3:N55-3-1-4:4321;
```

Errors

This message generates all of the [Default Errors](#).

RLS-PROTNSW-<OCN>

Name

RLS-PROTNSW-<OCN>: Release Protection Switch (OC12, OC3, OC48)

Description

Category: Protection Switching

Security: Maintenance - by rate

This instructs the C7 to release (clear) a SONET line protection switch request between a working line and a protection line that was established with the OPR-PRTNSW-OCn (Operate Protection Switch OCn) command.

This command assumes that only one user-initiated switch request is active per protected pair (i.e., per AID). If the OPR-PRTNSW-OCn (Operate Protection Switch OCn) locked out the line from protection switching, then this command will release the lockout condition.

Defined in GR-833.

Related Messages:

[DLT-<OCN>](#)

[DLT-GOS-<OCN>](#)

[ED-FFP-<OCN>](#)

[ENT-<OCN>](#)

[ENT-GOS-<OCN>](#)

[OPR-LPBK-<OCN>](#)

[REPT ALM <OCN>](#)

[REPT RMV <OCN>](#)

[DLT-FFP-<OCN>](#)

[ED-<OCN>](#)

[ED-GOS-<OCN>](#)

[ENT-FFP-<OCN>](#)

[INIT-REG-<OCN>](#)

[OPR-PROTNSW-<OCN>](#)

[REPT EVT <OCN>](#)

[REPT RST <OCN>](#)

[RLS-LPBK-<OCN>](#)
[RST-<OCN>](#)
[RTRV-ALM-<OCN>](#)
[RTRV-FFP-<OCN>](#)
[RTRV-PM-<OCN>](#)

[RMV-<OCN>](#)
[RTRV-<OCN>](#)
[RTRV-COND-<OCN>](#)
[RTRV-GOS-<OCN>](#)

Input Format

```
RLS-PROTNSW-<OCN>:[TID]:<OcNAid>:[CTAG];
```

Input Parameters

OcNAid OCn Access Identifier. The address of the either the working or the protecting OCn in a facility protection group which is to be released. *OcNAid* is the AID [FourPortLuAndRapAid](#).

Input Example

```
RLS-PROTNSW-OC12:SYSA:N4-3-2-1:7;
```

Errors

This message generates all of the [Default Errors](#).

RLS-PROTNSW-<STS>

Name

RLS-PROTNSW-<[STS](#)>: Release Protection Switch (STS1, STS12C, STS3C, STS48C)

Description

Category: Protection Switching **Security:** Maintenance - by rate

This instructs the C7 to release (clear) a SONET path protection switch request that was established with the OPR-PRTNSW-STS (Operate Protection Switch STS) command.

This command assumes that only one user-initiated switch request is active per protected pair (i.e., per AID). If the OPR-PRTNSW-STS (Operate Protection Switch STS) locked out the line from protection switching, then this command will release the lockout condition.

Defined in GR-833.

Related Messages:

[DLT-<STSN>](#)
[DLT-GOS-<STSN>](#)
[ED-CRS-<STSN>](#)
[ENT-<STSN>](#)
[ENT-GOS-<STSN>](#)
[OPR-PROTNSW-<STSN>](#)
[REPT EVT <STSN>](#)
[REPT RST <STSN>](#)
[RST-<STSN>](#)
[RTRV-ALM-<STSN>](#)
[RTRV-CRS-<STSN>](#)
[RTRV-PM-<STSN>](#)

[DLT-CRS-<STSN>](#)
[ED-<STSN>](#)
[ED-GOS-<STSN>](#)
[ENT-CRS-<STSN>](#)
[INIT-REG-<STSN>](#)
[REPT ALM <STSN>](#)
[REPT RMV <STSN>](#)
[RMV-<STSN>](#)
[RTRV-<STSN>](#)
[RTRV-COND-<STSN>](#)
[RTRV-GOS-<STSN>](#)

Input Format

```
RLS-PROTNSW-<STSN>:[TID]:<StsAid>:[CTAG];
```

Input Parameters

StsAid STS Path Access Identifier. The address of the either the working or the protecting STS path in a facility protection group which is to be released. *StsAid* is the AID [StsAid](#).

Input Example

```
RLS-PROTNSW-STS1:SYSA:N4-3-2-1-4:7;
```

Errors

This message generates all of the [Default Errors](#).

RLS-PROTNSW-PPL

Name

RLS-PROTNSW-PPL: Release Protection Switch PPL

Description

Category: Protection Switching**Security:** Maintenance - by rate

This instructs the C7 to release (clear) packet protection label switch request between a working line and a protection line that was established with the OPR-PRTNSW-PPL (Operate Protection Switch Packet Protection Label) command.

This command assumes that only one user-initiated switch request is active per protected pair (i.e., per AID). If the OPR-PRTNSW-PPL locked out the line from protection switching, then this command will release the lockout condition.

Defined in GR-833.

Related Messages:[ENT-PPL](#)[OPR-PROTNSW-PPL](#)[REPT ALM PPL](#)[REPT EVT PPL](#)[RTRV-ALM-PPL](#)[RTRV-COND-PPL](#)[RTRV-PPL](#)**Input Format**

RLS-PROTNSW-PPL:[TID]:<PplAid>:[CTAG];

Input Parameters

PplAid Packet Protection Label Access Identifier. The address of either the working or the protecting PPL in a facility protection group which is to be released. *PplAid* is the AID [PplId1](#).

Input Example

RLS-PROTNSW-PPL:SYSA:N4-3-10-2-45:7;

Errors

This message generates all of the [Default Errors](#).

RLS-SYNCNSW**Name**

RLS-SYNCNSW: Release Synchronization Switch

Description

Category: Protection Switching**Security:** Maintenance - full

In a revertive system, this command instructs the C7 to release (undo; i.e., switch back to the previous synchronization reference) a synchronization reference switch request that was initiated with the OPR-SYNCNSW (Operate Synchronization Switch) command, provided that the previous synchronization reference is not in a failure state.

Related Messages:[ED-TMG](#)[OPR-SYNCNSW](#)[REPT ALM TMG](#)[REPT EVT TMG](#)[RTRV-ALM-TMG](#)[RTRV-COND-TMG](#)[RTRV-TMG](#)**Input Format**

RLS-SYNCNSW: [TID] : <TimingAId> : [CTAG] ;

Input Parameters

TimingAId *TimingAId* is the AID [TimingAid](#).

Input Example

RLS-SYNCNSW: SYS3:N4-3-SYS:333 ;

Errors

This message generates all of the [Default Errors](#).

RMV-<OCN>**Name**

RMV-<[OCN](#)>: Remove (OC12, OC3, OC48)

Description**Category:** OCn Facility**Security:** Maintenance - by rate

This instructs a C7 to remove an OCn port from service. The entity will be placed in a maintenance state

in which maintenance activities can be performed. The new service state for the port will include OOS-MA,MT (Out Of Service - Memory Administration - Maintenance). Other states may also be included in the service state if other conditions already existed on the port.

Note that traffic will not be affected as a direct result of this command.

Currently outstanding alarms for the OCn port and supporting entity alarms will be cleared and future OCn port alarms and supporting entity alarms will be suppressed.

Once an entity is removed from service, service-affecting diagnostic routines can be initiated.

This command should be restricted and is intended for maintenance purposes only.

Defined in GR-833.

Related Messages:

[DLT-<OCN>](#)

[DLT-GOS-<OCN>](#)

[ED-FFP-<OCN>](#)

[ENT-<OCN>](#)

[ENT-GOS-<OCN>](#)

[OPR-LPBK-<OCN>](#)

[REPT ALM <OCN>](#)

[REPT RMV <OCN>](#)

[RLS-LPBK-<OCN>](#)

[RST-<OCN>](#)

[RTRV-ALM-<OCN>](#)

[RTRV-FFP-<OCN>](#)

[RTRV-PM-<OCN>](#)

[DLT-FFP-<OCN>](#)

[ED-<OCN>](#)

[ED-GOS-<OCN>](#)

[ENT-FFP-<OCN>](#)

[INIT-REG-<OCN>](#)

[OPR-PROTNSW-<OCN>](#)

[REPT EVT <OCN>](#)

[REPT RST <OCN>](#)

[RLS-PROTNSW-<OCN>](#)

[RTRV-<OCN>](#)

[RTRV-COND-<OCN>](#)

[RTRV-GOS-<OCN>](#)

Input Format

```
RMV-<OCN>:[TID]:<OcNAid>:[CTAG];
```

Input Parameters

OcNAid OCn Port Access Identifier. The address of the OCn port being removed from service. *OcNAid* is the AID [FourPortLuAndRapAid](#).

Input Example

```
RMV-OC12:SYSA:N3-4-6-1:555;
```

Errors

This message generates all of the [Default Errors](#).

RMV-<STSN>

Name

RMV-<[STSN](#)>: Remove (STS1, STS12C, STS3C, STS48C)

Description

Category: STSn Path **Security:** Maintenance - by rate

This instructs a C7 to remove an STS facility from service. The entity will be placed in a maintenance state in which maintenance activities can be performed. The new service state for the facility will include OOS-MA,MT (Out Of Service - Memory Administration - Maintenance). Other states may also be included in the service state if other conditions already existed on the port.

Note that traffic will not be affected as a direct result of this command.

Currently outstanding alarms for the STS facility and supporting entity alarms will be cleared and future STS facility alarms and supporting entity alarms will be suppressed.

Once an entity is removed from service, service-affecting diagnostic routines can be initiated.

This command should be restricted and is intended for maintenance purposes only.

Defined in GR-833.

Related Messages:

[DLT-<STSN>](#)
[DLT-GOS-<STSN>](#)
[ED-CRS-<STSN>](#)
[ENT-<STSN>](#)
[ENT-GOS-<STSN>](#)
[OPR-PROTNSW-<STSN>](#)
[REPT EVT <STSN>](#)
[REPT RST <STSN>](#)
[RST-<STSN>](#)
[RTRV-ALM-<STSN>](#)
[RTRV-CRS-<STSN>](#)
[RTRV-PM-<STSN>](#)

[DLT-CRS-<STSN>](#)
[ED-<STSN>](#)
[ED-GOS-<STSN>](#)
[ENT-CRS-<STSN>](#)
[INIT-REG-<STSN>](#)
[REPT ALM <STSN>](#)
[REPT RMV <STSN>](#)
[RLS-PROTNSW-<STSN>](#)
[RTRV-<STSN>](#)
[RTRV-COND-<STSN>](#)
[RTRV-GOS-<STSN>](#)

Input Format

RMV-< STSN >:[TID]:<StsAid>:[CTAG] ;
--

Input Parameters

StsAid STS Path Access Identifier. The address of the STS path being removed from service. *StsAid* is the AID [StsAid](#).

Input Example

```
RMV-STS1:SYSB:N3-4-6-1-3:555;
```

Errors

This message generates all of the [Default Errors](#).

RMV-ADSL

Name

RMV-ADSL: Remove Asymmetric Digital Subscriber Line

Description

Category: ADSL Facility **Security:** Maintenance - by rate

This instructs a C7 to remove an ADSL port from service. The entity will be placed in a maintenance state in which maintenance activities can be performed. The new service state for the port will include OOS-MA,MT (Out Of Service - Memory Administration - Maintenance). Other states may also be included in the service state if other conditions already existed on the port.

Note that traffic will not be affected as a direct result of this command.

Currently outstanding alarms for the ADSL port and supporting entity alarms will be cleared and future ADSL port alarms and supporting entity alarms will be suppressed.

Once an entity is removed from service, service-affecting diagnostic routines can be initiated.

This command should be restricted and is intended for maintenance purposes only.

Defined in GR-833.

Related Messages:

[DLT-ADSL](#)

[DLT-TMPLT-ADSL](#)

[DLT-GOS-ADSL](#)

[ED-ADSL](#)

ED-GOS-ADSL	ENT-ADSL
ENT-GOS-ADSL	ENT-TMPLT-ADSL
INIT-ADSL	INIT-PWR-ADSL
INIT-REG-ADSL	REPT ALM ADSL
REPT EVT ADSL	REPT RMV ADSL
REPT RST ADSL	RST-ADSL
RTRV-ADSL	RTRV-ALM-ADSL
RTRV-COND-ADSL	RTRV-CSTAT-ADSL
RTRV-GOS-ADSL	RTRV-PM-ADSL
RTRV-TMPLT-ADSL	

Input Format

```
RMV-ADSL:[TID]:<AdslAid>:[CTAG];
```

Input Parameters

AdslAid ADSL Port Access Identifier. The address of the ADSL port being removed from service.
AdslAid is the AID [TwentyFourPortLuAid](#).

Input Example

```
RMV-ADSL:SYSA:N3-4-6-4:555;
```

Errors

This message generates all of the [Default Errors](#).

RMV-AP

Name

RMV-AP: Remove ATM Resource Port

Description

Category: IMA Group **Security:** Maintenance - by rate

This instructs a C7 to remove an ATM Resource port from service. The entity will be placed in a maintenance state in which maintenance activities can be performed. The new service state for the port will include OOS-MA,MT (Out Of Service - Memory Administration - Maintenance). Other states may

also be included in the service state if other conditions already existed on the port.

Note that Rf-Video service from the ONT will not be affected as a direct result of this command.

Currently outstanding alarms for the AVO port and supporting entity alarms will be cleared and future AVO port alarms and supporting entity alarms will be suppressed.

Once an entity is removed from service, service-affecting diagnostic routines can be initiated.

This command should be restricted and is intended for maintenance purposes only.

Defined in GR-833.

Related Messages:

[DLT-AP](#)

[DLT-GOS-AP](#)

[DLT-GOS-IMALINK](#)

[DLT-IMA-PORT](#)

[ED-GOS-AP](#)

[ED-GOS-IMALINK](#)

[ENT-AP](#)

[ENT-GOS-AP](#)

[ENT-GOS-IMALINK](#)

[ENT-IMA-PORT](#)

[INIT-REG-IMA](#)

[REPT ALM AP](#)

[REPT ALM IMALINK](#)

[REPT EVT IMA](#)

[REPT RMV AP](#)

[RMV-IMA](#)

[RST-IMA](#)

[RTRV-ALM-IMA](#)

[RTRV-AP](#)

[RTRV-COND-IMA](#)

[RTRV-GOS-IMA](#)

[RTRV-IMA](#)

[RTRV-PM-IMA](#)

[DLT-AP-T1](#)

[DLT-GOS-IMA](#)

[DLT-IMA](#)

[ED-AP](#)

[ED-GOS-IMA](#)

[ED-IMA](#)

[ENT-AP-T1](#)

[ENT-GOS-IMA](#)

[ENT-IMA](#)

[INIT-REG-AP](#)

[INIT-REG-IMALINK](#)

[REPT ALM IMA](#)

[REPT EVT AP](#)

[REPT EVT IMALINK](#)

[REPT RST AP](#)

[RST-AP](#)

[RTRV-ALM-AP](#)

[RTRV-ALM-IMALINK](#)

[RTRV-COND-AP](#)

[RTRV-GOS-AP](#)

[RTRV-GOS-IMALINK](#)

[RTRV-PM-AP](#)

[RTRV-PM-IMALINK](#)

Input Format

RMV-AP : [TID] : <ApAid> : [CTAG] ;

Input Parameters

ApAid *ApAid* is the AID [AtmRscPortAid](#).

Input Example

```
RMV-AP:SYSA:N3-4-6-AP4:555;
```

Errors

This message generates all of the [Default Errors](#).

RMV-AVO

Name

RMV-AVO: Remove Analog Video Receiver Port

Description

Category: PON **Security:** Maintenance - by rate

This instructs a C7 to remove an Analog Video Overlay port from service. The entity will be placed in a maintenance state in which maintenance activities can be performed. The new service state for the port will include OOS-MA,MT (Out Of Service - Memory Administration - Maintenance). Other states may also be included in the service state if other conditions already existed on the port.

Note that Rf-Video service from the ONT will not be affected as a direct result of the this command.

Currently outstanding alarms for the AVO port and supporting entity alarms will be cleared and future AVO port alarms and supporting entity alarms will be suppressed.

Once an entity is removed from service, service-affecting diagnostic routines can be initiated.

This command should be restricted and is intended for maintenance purposes only.

Defined in GR-833.

Related Messages:

[DLT-AVO](#)

[DLT-GOS-ONT](#)

[DLT-IG-VDS1](#)

[DLT-ONT](#)

[DLT-PROF-ONT](#)

[DLT-RFVID](#)

[DLT-VCG](#)

[DLT-VRP](#)

[ED-AVO](#)

[ED-GOS-ONT](#)

[ED-ONT](#)

[ED-PROF-ONT](#)

[ED-RFVID](#)

[ED-VCG](#)

[ED-VRP](#)

[ENT-AVO](#)

ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV ONT	REPT RMV RFVID
REPT RST AVO	REPT RST ONT
REPT RST RFVID	RMV-ONT
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
RMV-AVO:[TID]:<OntPortAid>:[CTAG];
```

Input Parameters

OntPortAid Analog Video Overlay Port Access Identifier. The address of the AVO port being removed from service. The port number must be equal to 1. *OntPortAid* is the AID [OntPortAid](#).

Input Example

```
RMV-AVO:SYS:N2-4-6-1-18-1:86;
```

Errors

This message generates all of the [Default Errors](#).

RMV-EC1

Name

RMV-EC1: Remove Electrical Carrier

Description

Category: EC1 Facility **Security:** Maintenance - by rate

This instructs a C7 to remove an EC1 port from service. The entity will be placed in a maintenance state in which maintenance activities can be performed. The new service state for the port will include OOS-MA,MT (Out Of Service - Memory Administration - Maintenance). Other states may also be included in the service state if other conditions already existed on the port.

Note that traffic will not be affected as a direct result of this command.

Currently outstanding alarms for the EC1 port and supporting entity alarms will be cleared and future EC1 port alarms and supporting entity alarms will be suppressed.

Once an entity is removed from service, service-affecting diagnostic routines can be initiated.

This command should be restricted and is intended for maintenance purposes only.

Defined in GR-833.

Related Messages:

[DLT-EC1](#)

[ED-EC1](#)

[ENT-EC1](#)

[INIT-REG-EC1](#)

[REPT ALM EC1](#)

[REPT RMV EC1](#)

[RLS-LPBK-EC1](#)

[RTRV-ALM-EC1](#)

[RTRV-EC1](#)

[RTRV-PM-EC1](#)

[DLT-GOS-EC1](#)

[ED-GOS-EC1](#)

[ENT-GOS-EC1](#)

[OPR-LPBK-EC1](#)

[REPT EVT EC1](#)

[REPT RST EC1](#)

[RST-EC1](#)

[RTRV-COND-EC1](#)

[RTRV-GOS-EC1](#)

Input Format

RMV-EC1:[TID]:<Ec1Aid>:[CTAG];

Input Parameters

Ec1Aid EC1 Port Access Identifier. The address of the EC1 port being removed from service. *Ec1Aid* is

the AID [TwelvePortLuAid](#).

Input Example

```
RMV-EC1:SYS5:N3-4-6-1:555;
```

Errors

This message generates all of the [Default Errors](#).

RMV-EQPT

Name

RMV-EQPT: Remove Equipment

Description

Category: Equipment **Security:** Maintenance - full

This instructs a C7 to remove equipment from service. The entity will be placed in a maintenance state in which maintenance activities can be performed. The new service state for the equipment will include OOS-MA,MT (Out Of Service - Memory Administration - Maintenance). Other states may also be included in the service state if other conditions already existed on the port.

Note that traffic will not be affected as a direct result of this command.

Currently outstanding alarms for the equipment and supporting entity alarms will be cleared and future equipment alarms and supporting entity alarms will be suppressed.

Once an entity is removed from service, service-affecting diagnostic routines can be initiated.

This command should be restricted and is intended for maintenance purposes only.

Defined in GR-833.

Related Messages:

[ALW-Swdx-EQPT](#)
[ALW-Swtowkg-EQPT](#)
[ED-EQPT](#)
[INH-Swdx-EQPT](#)
[INH-Swtowkg-EQPT](#)
[REPT EVT EQPT](#)

[ALW-Swtoprotn-EQPT](#)
[DLT-EQPT](#)
[ENT-EQPT](#)
[INH-Swtoprotn-EQPT](#)
[REPT ALM EQPT](#)
[REPT RMV EQPT](#)

[REPT RST EQPT](#)
[RTRV-ALM-EQPT](#)
[RTRV-EQPT](#)
[SW-TOPROTN-EQPT](#)

[RST-EQPT](#)
[RTRV-COND-EQPT](#)
[SW-DX-EQPT](#)
[SW-TOWKG-EQPT](#)

Input Format

```
RMV-EQPT:[TID]:<EqptAid>:[CTAG];
```

Input Parameters

EqptAid ADSL Access Identifier. The address of the equipment being removed from service. *EqptAid* is the AID [EquipmentId](#).

Input Example

```
RMV-EQPT:SYSB:N3-4-6:666;
```

Errors

This message generates all of the [Default Errors](#).

RMV-ETH

Name

RMV-ETH: Remove ETH

Description

Category: Ethernet **Security:** Maintenance - by rate

This instructs a C7 to remove an Ethernet port from service. The entity will be placed in a maintenance state in which maintenance activities can be performed. The new service state for the port will include OOS-MA,MT (Out Of Service - Memory Administration - Maintenance). Other states may also be included in the service state if other conditions already existed on the port.

Note that traffic will not be affected as a direct result of this command.

Currently outstanding alarms for the Ethernet port and supporting entity alarms will be cleared and future Ethernet port alarms and supporting entity alarms will be suppressed.

Once an entity is removed from service, service-affecting diagnostic routines can be initiated.

This command should be restricted and is intended for maintenance purposes only.

Defined in GR-833.

Related Messages:

[DLT-AGG](#)

[DLT-AGG-PORT](#)

[DLT-ETH-ACL](#)

[DLT-LSWITCH](#)

[DLT-PROF-ETH](#)

[DLT-VLAN-PORT](#)

[ED-ETH](#)

[ED-VLAN](#)

[ED-VLAN-VBPORT](#)

[ENT-AGG-ACL](#)

[ENT-ETH](#)

[ENT-GOS-ETH](#)

[ENT-LSWITCH-PORT](#)

[ENT-VLAN](#)

[ENT-VLAN-VBPORT](#)

[INIT-STAT-ETH](#)

[REPT EVT ETH](#)

[REPT RST ETH](#)

[RTRV-AGG](#)

[RTRV-AGG-PORT](#)

[RTRV-COND-ETH](#)

[RTRV-ETH-ACL](#)

[RTRV-LSWITCH](#)

[RTRV-PM-ETH](#)

[RTRV-STAT-ETH](#)

[RTRV-VLAN-PORT](#)

[DLT-AGG-ACL](#)

[DLT-ETH](#)

[DLT-GOS-ETH](#)

[DLT-LSWITCH-PORT](#)

[DLT-VLAN](#)

[DLT-VLAN-VBPORT](#)

[ED-GOS-ETH](#)

[ED-VLAN-PORT](#)

[ENT-AGG](#)

[ENT-AGG-PORT](#)

[ENT-ETH-ACL](#)

[ENT-LSWITCH](#)

[ENT-PROF-ETH](#)

[ENT-VLAN-PORT](#)

[INIT-LSWITCH](#)

[REPT ALM ETH](#)

[REPT RMV ETH](#)

[RST-ETH](#)

[RTRV-AGG-ACL](#)

[RTRV-ALM-ETH](#)

[RTRV-ETH](#)

[RTRV-GOS-ETH](#)

[RTRV-LSWITCH-PORT](#)

[RTRV-PROF-ETH](#)

[RTRV-VLAN](#)

[RTRV-VLAN-VBPORT](#)

Input Format

RMV-ETH:[TID]:<EthPortAid>:[CTAG];

Input Parameters

EthPortAid Ethernet Access Identifier. *EthPortAid* is the AID [TwelvePortLuAid](#).

Input Example

RMV-ETH:SYS3:N3-4-6-14:555;

Errors

This message generates all of the [Default Errors](#).

RMV-HDSL

Name

RMV-HDSL: Remove HDSL

Description

Category: HDSL Facility **Security:** Maintenance - by rate

This instructs a C7 to remove an HDSL port from service. The entity will be placed in a maintenance state in which maintenance activities can be performed. The new service state for the port will include OOS-MA,MT (Out Of Service - Memory Administration - Maintenance). Other states may also be included in the service state if other conditions already existed on the port.

Note that traffic will not be affected as a direct result of this command.

Currently outstanding alarms for the HDSL port and supporting entity alarms will be cleared and future HDSL port alarms and supporting entity alarms will be suppressed.

Once an entity is removed from service, service-affecting diagnostic routines can be initiated.

This command should be restricted and is intended for maintenance purposes only.

Defined in GR-833.

Related Messages:

[DLT-GOS-HDSL](#)
[ED-GOS-HDSL](#)
[ENT-GOS-HDSL](#)
[INIT-HDSL](#)
[OPR-LPBK-HDSL](#)
[REPT EVT HDSL](#)
[REPT RST HDSL](#)
[RST-HDSL](#)
[RTRV-COND-HDSL](#)
[RTRV-GOS-HDSL](#)
[RTRV-HTU](#)

[DLT-HDSL](#)
[ED-HDSL](#)
[ENT-HDSL](#)
[INIT-REG-HDSL](#)
[REPT ALM HDSL](#)
[REPT RMV HDSL](#)
[RLS-LPBK-HDSL](#)
[RTRV-ALM-HDSL](#)
[RTRV-CSTAT-HDSL](#)
[RTRV-HDSL](#)
[RTRV-PM-HDSL](#)

Input Format

```
RMV-HDSL:[TID]:<HdslAid>:[CTAG];
```

Input Parameters

HdslAid HDSL Port Access Identifier. The address of the HDSL port being removed from service.
HdslAid is the AID [SixPortLuAid](#).

Input Example

```
RMV-HDSL:SYS5:N3-4-6-1:55;
```

Errors

This message generates all of the [Default Errors](#).

RMV-IMA

Name

RMV-IMA: Remove IMA

Description

Category: IMA Group **Security:** Maintenance - by rate

This instructs a C7 to remove an IMA Group from service. The entity will be placed in a maintenance state in which maintenance activities can be performed. The new service state for the IMA Group will include OOS-MA,MT (Out Of Service - Memory Administration - Maintenance). Other states may also be included in the service state if other conditions already existed on the port.

Note that traffic will not be affected as a direct result of this command.

Currently outstanding alarms for the IMA Group and supporting entity alarms will be cleared and future IMA Group alarms and supporting entity alarms will be suppressed.

Once an entity is removed from service, service-affecting diagnostic routines can be initiated.

This command should be restricted and is intended for maintenance purposes only.

Defined in GR-833.

Related Messages:

DLT-AP	DLT-AP-T1
DLT-GOS-AP	DLT-GOS-IMA
DLT-GOS-IMALINK	DLT-IMA
DLT-IMA-PORT	ED-AP
ED-GOS-AP	ED-GOS-IMA
ED-GOS-IMALINK	ED-IMA
ENT-AP	ENT-AP-T1
ENT-GOS-AP	ENT-GOS-IMA
ENT-GOS-IMALINK	ENT-IMA
ENT-IMA-PORT	INIT-REG-AP
INIT-REG-IMA	INIT-REG-IMALINK
REPT ALM AP	REPT ALM IMA
REPT ALM IMALINK	REPT EVT AP
REPT EVT IMA	REPT EVT IMALINK
REPT RMV AP	REPT RST AP
RMV-AP	RST-AP
RST-IMA	RTRV-ALM-AP
RTRV-ALM-IMA	RTRV-ALM-IMALINK
RTRV-AP	RTRV-COND-AP
RTRV-COND-IMA	RTRV-GOS-AP
RTRV-GOS-IMA	RTRV-GOS-IMALINK
RTRV-IMA	RTRV-PM-AP
RTRV-PM-IMA	RTRV-PM-IMALINK

Input Format

```
RMV-IMA:[TID]:<ImaAid>:[CTAG];
```

Input Parameters

ImaAid IMA Group Access Identifier. The address of the IMA Group which is to be removed from service. *ImaAid* is the AID [ImaGrpAid](#).

Input Example

```
RMV-IMA:SYSA:N3-4-6-IMA4:555;
```

Errors

This message generates all of the [Default Errors](#).

RMV-ONT

Name

RMV-ONT: Remove Optical Network Termination

Description

Category: PON **Security:** Maintenance - by rate

This instructs a C7 to remove an ONT from service. The entity will be placed in a maintenance state in which maintenance activities can be performed. The new service state for the port will include OOS-MA,MT (Out Of Service - Memory Administration - Maintenance). Other states may also be included in the service state if other conditions already existed on the port.

Note that traffic will not be affected as a direct result of this command.

Currently outstanding alarms for the ONT and supporting entity alarms will be cleared and future ONT alarms and supporting entity alarms will be suppressed.

Once an entity is removed from service, service-affecting diagnostic routines can be initiated.

This command should be restricted and is intended for maintenance purposes only.

Defined in GR-833.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV ONT	REPT RMV RFVID
REPT RST AVO	REPT RST ONT

REPT RST RFVID	RMV-AVO
RMV-RFVID	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
RMV-ONT:[TID]:<OntAid>:[CTAG];
```

Input Parameters

OntAid Optical Network Termination Access Identifier. The address of the ONT which is to be removed from service. *OntAid* is the AID [OntAid](#).

Input Example

```
RMV-ONT:SYS:N2-3-12-1-23:90;
```

Errors

This message generates all of the [Default Errors](#).

RMV-PON

Name

RMV-PON: Remove Passive Optical Network

Description

Category: PON **Security:** Maintenance - by rate

This instructs a C7 to remove a PON port from service. The entity will be placed in a maintenance state in which maintenance activities can be performed. The new service state for the port will include OOS-MA,MT (Out Of Service - Memory Administration - Maintenance). Other states may also be included in the service state if other conditions already existed on the port.

Note that traffic will not be affected as a direct result of this command.

Currently outstanding alarms for the PON and supporting entity alarms will be cleared and future PON alarms and supporting entity alarms will be suppressed.

Once an entity is removed from service, service-affecting diagnostic routines can be initiated.

This command should be restricted and is intended for maintenance purposes only.

Defined in GR-833.

Input Format

```
RMV-PON:[TID]:<PonAid>:[CTAG];
```

Input Parameters

PonAid Passive Optical Network Access Identifier. The address of the ONT which is to be removed from service. *PonAid* is the AID [FourPortLuAid](#).

Input Example

```
RMV-PON:SYS:N2-3-12-1:86;
```

Errors

This message generates all of the [Default Errors](#).

RMV-PP

Name

RMV-PP: Remove PP

Description

Category: Virtual Facility **Security:** Maintenance - by rate

This instructs a C7 to remove a Pseudo port from service. The entity will be placed in a maintenance state in which maintenance activities can be performed. The new service state for the Pseudo port will include OOS-MA,MT (Out Of Service - Memory Administration - Maintenance). Other states may also be included in the service state if other conditions already existed on the port.

Note that traffic will not be affected as a direct result of this command.

Currently outstanding alarms for the Pseudo port and supporting entity alarms will be cleared and future Pseudo port alarms and supporting entity alarms will be suppressed.

Once an entity is removed from service, service-affecting diagnostic routines can be initiated.

This command should be restricted and is intended for maintenance purposes only.

Defined in GR-833.

Related Messages:

[ACT-PROTN-VC](#)

[DLT-CRS-VC](#)

[DLT-PP](#)

[ED-CRS-VC](#)

[ED-PROF-TRF](#)

[ENT-CRS-VP](#)

[ENT-PROF-TRF](#)

[INIT-CSTAT-VP](#)

[INJ-LPBK-VP](#)

[MV-CRS-VP](#)

[OPR-CC-VP](#)

[REPT EVT PP](#)

[REPT EVT VP](#)

[REPT RST PP](#)

[RLS-CC-VP](#)

[RTRV-ALM-PP](#)

[RTRV-CRS-VC](#)

[RTRV-CSTAT-VC](#)

[RTRV-PP](#)

[RTRV-VTI](#)

[ACT-PROTN-VP](#)

[DLT-CRS-VP](#)

[DLT-PROF-TRF](#)

[ED-CRS-VP](#)

[ENT-CRS-VC](#)

[ENT-PP](#)

[INIT-CSTAT-VC](#)

[INJ-LPBK-VC](#)

[MV-CRS-VC](#)

[OPR-CC-VC](#)

[REPT ALM PP](#)

[REPT EVT VC](#)

[REPT RMV PP](#)

[RLS-CC-VC](#)

[RST-PP](#)

[RTRV-COND-PP](#)

[RTRV-CRS-VP](#)

[RTRV-CSTAT-VP](#)

[RTRV-PROF-TRF](#)

Input Format

RMV-PP : [TID] : <PpAid> : [CTAG] ;

Input Parameters

PpAid Pseudo Port Identifier. *PpAid* is the AID [PpAid](#).

Input Example

RMV-PP:SYSB:N1-1-2-PP1:555;

Errors

This message generates all of the [Default Errors](#).

RMV-RFVID

Name

RMV-RFVID: Remove Rf-Video Port

Description

Category: PON **Security:** Maintenance - by rate

This instructs a C7 to remove an Rf-Video port from service. The entity will be placed in a maintenance state in which maintenance activities can be performed. The new service state for the port will include OOS-MA,MT (Out Of Service - Memory Administration - Maintenance). Other states may also be included in the service state if other conditions already existed on the port.

Note that traffic will not be affected as a direct result of this command.

Currently outstanding alarms for the RFVID port and supporting entity alarms will be cleared and future RFVID port alarms and supporting entity alarms will be suppressed.

Once an entity is removed from service, service-affecting diagnostic routines can be initiated.

This command should be restricted and is intended for maintenance purposes only.

Defined in GR-833.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO

ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV ONT	REPT RMV RFVID
REPT RST AVO	REPT RST ONT
REPT RST RFVID	RMV-AVO
RMV-ONT	RST-AVO
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
RMV-RFVID:[TID]:<OntPortAid>:[CTAG];
```

Input Parameters

OntPortAid Rf-Video Port Access Identifier. The address of the RFVID port. (The ONT port number must be equal to 1.) *OntPortAid* is the AID [OntPortAid](#).

Input Example

```
RMV-RFVID:SYS:N2-4-6-1-18-1:86;
```

Errors

This message generates all of the [Default Errors](#).

RMV-T0

Name

RMV-T0: Remove Digital Signal Zero

Description

Category: DS0 Facility **Security:** Maintenance - by rate

This instructs a C7 to remove a T0 port from service. The entity will be placed in a maintenance state in which maintenance activities can be performed. The new service state for the port will include OOS-MA,MT (Out Of Service - Memory Administration - Maintenance). Other states may also be included in the service state if other conditions already existed on the port.

Note that traffic will not be affected as a direct result of this command.

Currently outstanding alarms for the T0 port and supporting entity alarms will be cleared and future T0 port alarms and supporting entity alarms will be suppressed.

Once an entity is removed from service, service-affecting diagnostic routines can be initiated.

This command should be restricted and is intended for maintenance purposes only.

Defined in GR-833.

Related Messages:

[DLT-CRS-T0](#)

[ED-T0](#)

[ENT-T0](#)

[REPT EVT T0](#)

[REPT RST T0](#)

[RTRV-ALM-T0](#)

[RTRV-CRS-T0](#)

[RTRV-T0](#)

[DLT-T0](#)

[ENT-CRS-T0](#)

[REPT ALM T0](#)

[REPT RMV T0](#)

[RST-T0](#)

[RTRV-COND-T0](#)

[RTRV-CSTAT-T0](#)

Input Format

```
RMV-T0:[TID]:<T0Aid>:[CTAG];
```

Input Parameters

T0Aid T0 Port Access Identifier. The address of the T0 port being removed from service. *T0Aid* is the AID [TwentyFourPortLuAid](#).

Input Example

```
RMV-T0:SYS3:N3-4-6-14:555;
```

Errors

This message generates all of the [Default Errors](#).

RMV-T1

Name

RMV-T1: Remove Digital Signal One

Description

Category: DS1 Facility **Security:** Maintenance - by rate

This instructs a C7 to remove a T1 port from service. The entity will be placed in a maintenance state in which maintenance activities can be performed. The new service state for the port will include OOS-MA,MT (Out Of Service - Memory Administration - Maintenance). Other states may also be included in the service state if other conditions already existed on the port.

Note that traffic will not be affected as a direct result of this command.

Currently outstanding alarms for the T1 port and supporting entity alarms will be cleared and future T1 port alarms and supporting entity alarms will be suppressed.

Once an entity is removed from service, service-affecting diagnostic routines can be initiated.

This command should be restricted and is intended for maintenance purposes only.

Defined in GR-833.

Related Messages:

[DLT-AP-T1](#)
[DLT-GOS-T1](#)
[ED-GOS-T1](#)
[ENT-AP-T1](#)
[ENT-GOS-T1](#)
[INIT-REG-T1](#)
[REPT ALM T1](#)
[REPT RMV T1](#)

[DLT-CRS-T1](#)
[DLT-T1](#)
[ED-T1](#)
[ENT-CRS-T1](#)
[ENT-T1](#)
[OPR-LPBK-T1](#)
[REPT EVT T1](#)
[REPT RST T1](#)

[RLS-LPBK-T1](#)
[RTRV-ALM-T1](#)
[RTRV-CRS-T1](#)
[RTRV-PM-T1](#)

[RST-T1](#)
[RTRV-COND-T1](#)
[RTRV-GOS-T1](#)
[RTRV-T1](#)

Input Format

```
RMV-T1:[TID]:<Ds1Aid>:[CTAG];
```

Input Parameters

Ds1Aid T1 Port Access Identifier. The address of the T1 port being removed from service. *Ds1Aid* is the AID [TwelvePortLuAid](#).

Input Example

```
RMV-T1:SYS5:N3-4-6-1:55;
```

Errors

This message generates all of the [Default Errors](#).

RMV-T3

Name

RMV-T3: Remove Digital Signal 3

Description

Category: DS3 Facility **Security:** Maintenance - by rate

This instructs a C7 to remove a T3 port from service. The entity will be placed in a maintenance state in which maintenance activities can be performed. The new service state for the port will include OOS-MA,MT (Out Of Service - Memory Administration - Maintenance). Other states may also be included in the service state if other conditions already existed on the port.

Note that traffic will not be affected as a direct result of this command.

Currently outstanding alarms for the T3 port and supporting entity alarms will be cleared and future T3 port alarms and supporting entity alarms will be suppressed.

Once an entity is removed from service, service-affecting diagnostic routines can be initiated.

This command should be restricted and is intended for maintenance purposes only.

Defined in GR-833.

Related Messages:

[DLT-GOS-T3](#)

[ED-GOS-T3](#)

[ENT-GOS-T3](#)

[INIT-REG-T3](#)

[REPT ALM T3](#)

[REPT RMV T3](#)

[RLS-LPBK-T3](#)

[RTRV-ALM-T3](#)

[RTRV-GOS-T3](#)

[RTRV-T3](#)

[DLT-T3](#)

[ED-T3](#)

[ENT-T3](#)

[OPR-LPBK-T3](#)

[REPT EVT T3](#)

[REPT RST T3](#)

[RST-T3](#)

[RTRV-COND-T3](#)

[RTRV-PM-T3](#)

Input Format

```
RMV-T3:[TID]:<Ds3Aid>:[CTAG];
```

Input Parameters

Ds3Aid T3 Port Access Identifier. The address of the T3 port being removed from service. *Ds3Aid* is the AID [T3Aid](#).

Input Example

```
RMV-T3:SYS5:N3-4-6-1:555;
```

Errors

This message generates all of the [Default Errors](#).

RST-<OCN>

Name

RST-<[OCN](#)>: Restore (OC12, OC3, OC48)

Description

Category: OCn Facility

Security: Maintenance - by rate

This instructs a C7 to restore an OCn port to service. The entity is taken from a maintenance state and placed in an in-service state for which the unit is ready to provide its service functions. It is assumed that these entities are in good working condition.

The MA-MT service states will be removed from the entity and if no other out of service condition exists will transition into a in service state.

If any alarmable condition exists on the entity or a supporting entity, then the alarm will be generated. Also, future alarms are no longer suppressed.

Defined in GR-833.

Related Messages:

[DLT-<OCN>](#)

[DLT-GOS-<OCN>](#)

[ED-FFP-<OCN>](#)

[ENT-<OCN>](#)

[ENT-GOS-<OCN>](#)

[OPR-LPBK-<OCN>](#)

[REPT ALM <OCN>](#)

[REPT RMV <OCN>](#)

[RLS-LPBK-<OCN>](#)

[RMV-<OCN>](#)

[RTRV-ALM-<OCN>](#)

[RTRV-FFP-<OCN>](#)

[RTRV-PM-<OCN>](#)

[DLT-FFP-<OCN>](#)

[ED-<OCN>](#)

[ED-GOS-<OCN>](#)

[ENT-FFP-<OCN>](#)

[INIT-REG-<OCN>](#)

[OPR-PROTNSW-<OCN>](#)

[REPT EVT <OCN>](#)

[REPT RST <OCN>](#)

[RLS-PROTNSW-<OCN>](#)

[RTRV-<OCN>](#)

[RTRV-COND-<OCN>](#)

[RTRV-GOS-<OCN>](#)

Input Format

```
RST-<OCN>:[TID]:<OcNAid>:[CTAG];
```

Input Parameters

OcNAid OCn Port Access Identifier. The address of the OCn port being restored to service. *OcNAid* is the AID [FourPortLuAndRapAid](#).

Input Example

```
RST-OC12:SYSB:N3-4-6-1:555;
```

Errors

This message generates all of the [Default Errors](#).

RST-<STS>

Name

RST-<[STS](#)>: Restore (STS1, STS12C, STS3C, STS48C)

Description

Category: STSn Path **Security:** Maintenance - by rate

This instructs a C7 to restore an STS to service. The entity is taken from a maintenance state and placed in an in-service state for which the unit is ready to provide its service functions. It is assumed that these entities are in good working condition.

The MA-MT service states will be removed from the entity and if no other out of service condition exists will transition into a in service state.

If any alarmable condition exists on the entity or a supporting entity, then the alarm will be generated. Also, future alarms are no longer suppressed.

Defined in GR-833.

Related Messages:

[DLT-<STS>](#)

[DLT-GOS-<STS>](#)

[ED-CRS-<STS>](#)

[ENT-<STS>](#)

[ENT-GOS-<STS>](#)

[OPR-PROTNSW-<STS>](#)

[REPT EVT <STS>](#)

[REPT RST <STS>](#)

[RMV-<STS>](#)

[RTRV-ALM-<STS>](#)

[RTRV-CRS-<STS>](#)

[RTRV-PM-<STS>](#)

[DLT-CRS-<STS>](#)

[ED-<STS>](#)

[ED-GOS-<STS>](#)

[ENT-CRS-<STS>](#)

[INIT-REG-<STS>](#)

[REPT ALM <STS>](#)

[REPT RMV <STS>](#)

[RLS-PROTNSW-<STS>](#)

[RTRV-<STS>](#)

[RTRV-COND-<STS>](#)

[RTRV-GOS-<STS>](#)

Input Format

RST-< STS >:[TID]:<StsAid>:[CTAG];
--

Input Parameters

StsAid STS Path Access Identifier. The address of the STS path being restored to service. *StsAid* is the AID [StsAid](#).

Input Example

```
RST-STS1:SYSB:N3-4-6-1-1:555;
```

Errors

This message generates all of the [Default Errors](#).

RST-ADSL

Name

RST-ADSL: Restore Asymmetric Digital Subscriber Line

Description

Category: ADSL Facility **Security:** Maintenance - by rate

This instructs a C7 to restore an ADSL port to service. The entity is taken out of a maintenance state and placed in an in-service state for which the unit is ready to provide its service functions. It is assumed that these entities are in good working condition.

The MA-MT service states will be removed from the entity and if no other out of service condition exists will transition into a in service state.

If any alarmable condition exists on the entity or a supporting entity, then the alarm will be generated. Also, future alarms are no longer suppressed.

Defined in GR-833.

Related Messages:

[DLT-ADSL](#)

[DLT-TMPLT-ADSL](#)

[ED-GOS-ADSL](#)

[ENT-GOS-ADSL](#)

[INIT-ADSL](#)

[INIT-REG-ADSL](#)

[DLT-GOS-ADSL](#)

[ED-ADSL](#)

[ENT-ADSL](#)

[ENT-TMPLT-ADSL](#)

[INIT-PWR-ADSL](#)

[REPT ALM ADSL](#)

[REPT EVT ADSL](#)
[REPT RST ADSL](#)
[RTRV-ADSL](#)
[RTRV-COND-ADSL](#)
[RTRV-GOS-ADSL](#)
[RTRV-TMPLT-ADSL](#)

[REPT RMV ADSL](#)
[RMV-ADSL](#)
[RTRV-ALM-ADSL](#)
[RTRV-CSTAT-ADSL](#)
[RTRV-PM-ADSL](#)

Input Format

```
RST-ADSL:[TID]:<AdslAid>:[CTAG];
```

Input Parameters

AdslAid ADSL Port Access Identifier. The address of the ADSL port being restored to service. *AdslAid* is the AID [TwentyFourPortLuAid](#).

Input Example

```
RST-ADSL:SYS5:N3-4-6-1:555;
```

Errors

This message generates all of the [Default Errors](#).

RST-AP

Name

RST-AP: Restore ATM Resource Port

Description

Category: IMA Group **Security:** Maintenance - by rate

This instructs a C7 to restore an ATM Resource port to service. The entity is taken out of a maintenance state and placed in an in-service state for which the unit is ready to provide its service functions. It is assumed that these entities are in good working condition.

The MA-MT service states will be removed from the entity and if no other out of service condition exists will transition into a in service state.

If any alarmable condition exists on the entity or a supporting entity, then the alarm will be generated.

Also, future alarms are no longer suppressed.

Defined in GR-833.

Related Messages:

[DLT-AP](#)

[DLT-GOS-AP](#)

[DLT-GOS-IMALINK](#)

[DLT-IMA-PORT](#)

[ED-GOS-AP](#)

[ED-GOS-IMALINK](#)

[ENT-AP](#)

[ENT-GOS-AP](#)

[ENT-GOS-IMALINK](#)

[ENT-IMA-PORT](#)

[INIT-REG-IMA](#)

[REPT ALM AP](#)

[REPT ALM IMALINK](#)

[REPT EVT IMA](#)

[REPT RMV AP](#)

[RMV-AP](#)

[RST-IMA](#)

[RTRV-ALM-IMA](#)

[RTRV-AP](#)

[RTRV-COND-IMA](#)

[RTRV-GOS-IMA](#)

[RTRV-IMA](#)

[RTRV-PM-IMA](#)

[DLT-AP-T1](#)

[DLT-GOS-IMA](#)

[DLT-IMA](#)

[ED-AP](#)

[ED-GOS-IMA](#)

[ED-IMA](#)

[ENT-AP-T1](#)

[ENT-GOS-IMA](#)

[ENT-IMA](#)

[INIT-REG-AP](#)

[INIT-REG-IMALINK](#)

[REPT ALM IMA](#)

[REPT EVT AP](#)

[REPT EVT IMALINK](#)

[REPT RST AP](#)

[RMV-IMA](#)

[RTRV-ALM-AP](#)

[RTRV-ALM-IMALINK](#)

[RTRV-COND-AP](#)

[RTRV-GOS-AP](#)

[RTRV-GOS-IMALINK](#)

[RTRV-PM-AP](#)

[RTRV-PM-IMALINK](#)

Input Format

RST-AP : [TID] : <ApAid> : [CTAG] ;

Input Parameters

ApAid *ApAid* is the AID [AtmRscPortAid](#).

Input Example

RST-AP : SYSA : N3 - 4 - 6 - AP4 : 556 ;

Errors

This message generates all of the [Default Errors](#).

RST-AVO

Name

RST-AVO: Restore Analog Video Receiver Port

Description

Category: PON **Security:** Maintenance - by rate

This instructs a C7 to restore an Analog Video Overlay port to service. The entity is taken out of a maintenance state and placed in an in-service state for which the unit is ready to provide its service functions. It is assumed that these entities are in good working condition.

The MA-MT service states will be removed from the entity and if no other out of service condition exists will transition into a in service state.

If any alarmable condition exists on the entity or a supporting entity, then the alarm will be generated. Also, future alarms are no longer suppressed.

Defined in GR-833.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV ONT	REPT RMV RFVID
REPT RST AVO	REPT RST ONT

REPT RST RFVID	RMV-AVO
RMV-ONT	RMV-RFVID
RST-ONT	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
RST-AVO:[TID]:<OntPortAid>:[CTAG];
```

Input Parameters

OntPortAid Analog Video Overlay Port Access Identifier. The address of the AVO port. (The ONT port number must be equal to 1.) *OntPortAid* is the AID [OntPortAid](#).

Input Example

```
RST-AVO:SYS:N2-4-6-1-18-1:86;
```

Errors

This message generates all of the [Default Errors](#).

RST-EC1

Name

RST-EC1: Restore Electrical Carrier

Description

Category: EC1 Facility**Security:** Maintenance - by rate

This instructs a C7 to restore a EC1 port to service. The entity is taken from a maintenance state and placed in an in-service state for which the unit is ready to provide its service functions. It is assumed that these entities are in good working condition.

The MA-MT service states will be removed from the entity and if no other out of service condition exists will transition into a in service state.

If any alarmable condition exists on the entity or a supporting entity, then the alarm will be generated. Also, future alarms are no longer suppressed.

Defined in GR-833.

Related Messages:

[DLT-EC1](#)

[ED-EC1](#)

[ENT-EC1](#)

[INIT-REG-EC1](#)

[REPT ALM EC1](#)

[REPT RMV EC1](#)

[RLS-LPBK-EC1](#)

[RTRV-ALM-EC1](#)

[RTRV-EC1](#)

[RTRV-PM-EC1](#)

[DLT-GOS-EC1](#)

[ED-GOS-EC1](#)

[ENT-GOS-EC1](#)

[OPR-LPBK-EC1](#)

[REPT EVT EC1](#)

[REPT RST EC1](#)

[RMV-EC1](#)

[RTRV-COND-EC1](#)

[RTRV-GOS-EC1](#)

Input Format

```
RST-EC1:[TID]:<Ec1Aid>:[CTAG];
```

Input Parameters

Ec1Aid EC1 Port Access Identifier. The address of the EC1 port being restored to service. *Ec1Aid* is the AID [TwelvePortLuAid](#).

Input Example

```
RST-EC1:SYS3:N3-4-6-1:555;
```

Errors

This message generates all of the [Default Errors](#).

RST-EQPT

Name

RST-EQPT: Restore Equipment

Description

Category: Equipment **Security:** Maintenance - full

This instructs a C7 to restore equipment units to service. The entity is taken from a maintenance state and placed in an in-service state for which the unit is ready to provide its service functions. It is assumed that these entities are in good working condition.

The MA-MT service states will be removed from the entity and if no other out of service condition exists will transition into a in service state.

If any alarmable condition exists on the entity or a supporting entity, then the alarm will be generated. Also, future alarms are no longer suppressed.

Defined in GR-833.

Related Messages:

[ALW-Swdx-EQPT](#)
[ALW-SWTOWKG-EQPT](#)
[ED-EQPT](#)
[INH-Swdx-EQPT](#)
[INH-SWTOWKG-EQPT](#)
[REPT EVT EQPT](#)
[REPT RST EQPT](#)
[RTRV-ALM-EQPT](#)
[RTRV-EQPT](#)
[SW-TOPROTN-EQPT](#)

[ALW-SWTOPROTN-EQPT](#)
[DLT-EQPT](#)
[ENT-EQPT](#)
[INH-SWTOPROTN-EQPT](#)
[REPT ALM EQPT](#)
[REPT RMV EQPT](#)
[RMV-EQPT](#)
[RTRV-COND-EQPT](#)
[SW-DX-EQPT](#)
[SW-TOWKG-EQPT](#)

Input Format

```
RST-EQPT:[TID]:<EqptAid>:[CTAG];
```

Input Parameters

EqptAid Equipment Access Identifier. The address of the equipment being restored to service. *EqptAid* is the AID [EquipmentId](#).

Input Example

```
RST-EQPT:SYSB:N3-4-2:423;
```

Errors

This message generates all of the [Default Errors](#).

RST-ETH

Name

RST-ETH: Restore ETH

Description

Category: Ethernet **Security:** Maintenance - by rate

Sets the external ethernet port in-service. Traffic can now pass over the port.

Related Messages:

[DLT-AGG](#)
[DLT-AGG-PORT](#)
[DLT-ETH-ACL](#)
[DLT-LSWITCH](#)
[DLT-PROF-ETH](#)
[DLT-VLAN-PORT](#)
[ED-ETH](#)
[ED-VLAN](#)
[ED-VLAN-VBPORT](#)
[ENT-AGG-ACL](#)
[ENT-ETH](#)
[ENT-GOS-ETH](#)
[ENT-LSWITCH-PORT](#)
[ENT-VLAN](#)
[ENT-VLAN-VBPORT](#)
[INIT-STAT-ETH](#)
[REPT EVT ETH](#)
[REPT RST ETH](#)
[RTRV-AGG](#)
[RTRV-AGG-PORT](#)
[RTRV-COND-ETH](#)
[RTRV-ETH-ACL](#)

[DLT-AGG-ACL](#)
[DLT-ETH](#)
[DLT-GOS-ETH](#)
[DLT-LSWITCH-PORT](#)
[DLT-VLAN](#)
[DLT-VLAN-VBPORT](#)
[ED-GOS-ETH](#)
[ED-VLAN-PORT](#)
[ENT-AGG](#)
[ENT-AGG-PORT](#)
[ENT-ETH-ACL](#)
[ENT-LSWITCH](#)
[ENT-PROF-ETH](#)
[ENT-VLAN-PORT](#)
[INIT-LSWITCH](#)
[REPT ALM ETH](#)
[REPT RMV ETH](#)
[RMV-ETH](#)
[RTRV-AGG-ACL](#)
[RTRV-ALM-ETH](#)
[RTRV-ETH](#)
[RTRV-GOS-ETH](#)

[RTRV-LSWITCH](#)
[RTRV-PM-ETH](#)
[RTRV-STAT-ETH](#)
[RTRV-VLAN-PORT](#)

[RTRV-LSWITCH-PORT](#)
[RTRV-PROF-ETH](#)
[RTRV-VLAN](#)
[RTRV-VLAN-VBPORT](#)

Input Format

```
RST-ETH:[TID]:<EthPortAid>:[CTAG];
```

Input Parameters

EthPortAid Ethernet Access Identifier. *EthPortAid* is the AID [TwelvePortLuAid](#).

Input Example

```
RST-ETH:SYS3:N3-4-6-1:555;
```

Errors

This message generates all of the [Default Errors](#).

RST-HDSL

Name

RST-HDSL: Restore High bit rate Digital Subscriber LIne

Description

Category: HDSL Facility **Security:** Maintenance - by rate

This instructs a C7 to restore a HDSL port to service. The entity is taken from a maintenance state and placed in an in-service state for which the unit is ready to provide its service functions. It is assumed that these entities are in good working condition.

The MA-MT service states will be removed from the entity and if no other out of service condition exists will transition into a in service state.

If any alarmable condition exists on the entity or a supporting entity, then the alarm will be generated. Also, future alarms are no longer suppressed.

Defined in GR-833.

Related Messages:

[DLT-GOS-HDSL](#)
[ED-GOS-HDSL](#)
[ENT-GOS-HDSL](#)
[INIT-HDSL](#)
[OPR-LPBK-HDSL](#)
[REPT EVT HDSL](#)
[REPT RST HDSL](#)
[RMV-HDSL](#)
[RTRV-COND-HDSL](#)
[RTRV-GOS-HDSL](#)
[RTRV-HTU](#)

[DLT-HDSL](#)
[ED-HDSL](#)
[ENT-HDSL](#)
[INIT-REG-HDSL](#)
[REPT ALM HDSL](#)
[REPT RMV HDSL](#)
[RLS-LPBK-HDSL](#)
[RTRV-ALM-HDSL](#)
[RTRV-CSTAT-HDSL](#)
[RTRV-HDSL](#)
[RTRV-PM-HDSL](#)

Input Format

```
RST-HDSL:[TID]:<HdslAid>:[CTAG];
```

Input Parameters

HdslAid HDSL Port Access Identifier. The address of the HDSL port being restored to service. *HdslAid* is the AID [SixPortLuAid](#).

Input Example

```
RST-HDSL:SYS5:N3-4-6-1:55;
```

Errors

This message generates all of the [Default Errors](#).

RST-IMA

Name

RST-IMA: Restore IMA

Description

Category: IMA Group

Security: Maintenance - by rate

This instructs a C7 to restore an IMA Group to service. The entity is taken from a maintenance state and placed in an in-service state for which the unit is ready to provide its service functions. It is assumed that these entities are in good working condition.

The MA-MT service states will be removed from the entity and if no other out of service condition exists will transition into a in service state.

If any alarmable condition exists on the entity or a supporting entity, then the alarm will be generated. Also, future alarms are no longer suppressed.

Defined in GR-833.

Related Messages:

DLT-AP	DLT-AP-T1
DLT-GOS-AP	DLT-GOS-IMA
DLT-GOS-IMALINK	DLT-IMA
DLT-IMA-PORT	ED-AP
ED-GOS-AP	ED-GOS-IMA
ED-GOS-IMALINK	ED-IMA
ENT-AP	ENT-AP-T1
ENT-GOS-AP	ENT-GOS-IMA
ENT-GOS-IMALINK	ENT-IMA
ENT-IMA-PORT	INIT-REG-AP
INIT-REG-IMA	INIT-REG-IMALINK
REPT ALM AP	REPT ALM IMA
REPT ALM IMALINK	REPT EVT AP
REPT EVT IMA	REPT EVT IMALINK
REPT RMV AP	REPT RST AP
RMV-AP	RMV-IMA
RST-AP	RTRV-ALM-AP
RTRV-ALM-IMA	RTRV-ALM-IMALINK
RTRV-AP	RTRV-COND-AP
RTRV-COND-IMA	RTRV-GOS-AP
RTRV-GOS-IMA	RTRV-GOS-IMALINK
RTRV-IMA	RTRV-PM-AP
RTRV-PM-IMA	RTRV-PM-IMALINK

Input Format

```
RST-IMA:[TID]:<ImaAid>:[CTAG];
```

Input Parameters

ImaAid IMA Group Access Identifier. The address of the IMA Group which is to be restored into service. *ImaAid* is the AID [ImaGrpAid](#).

Input Example

RST-IMA:SYS3:N3-4-6-IMA1:555;

Errors

This message generates all of the [Default Errors](#).

RST-ONT

Name

RST-ONT: Restore Optical Network Termination

Description

Category: PON **Security:** Maintenance - by rate

This instructs a C7 to restore an ONT to service. The entity is taken from a maintenance state and placed in an in-service state for which the unit is ready to provide its service functions. It is assumed that these entities are in good working condition.

The MA-MT service states will be removed from the entity and if no other out of service condition exists will transition into a in service state.

If any alarmable condition exists on the entity or a supporting entity, then the alarm will be generated. Also, future alarms are no longer suppressed.

Defined in GR-833.

Related Messages:

[DLT-AVO](#)
[DLT-IG-VDS1](#)
[DLT-PROF-ONT](#)
[DLT-VCG](#)
[ED-AVO](#)
[ED-ONT](#)
[ED-RFVID](#)
[ED-VRP](#)
[ENT-GOS-ONT](#)
[ENT-ONT](#)
[ENT-RFVID](#)

[DLT-GOS-ONT](#)
[DLT-ONT](#)
[DLT-RFVID](#)
[DLT-VRP](#)
[ED-GOS-ONT](#)
[ED-PROF-ONT](#)
[ED-VCG](#)
[ENT-AVO](#)
[ENT-IG-VDS1](#)
[ENT-PROF-ONT](#)
[ENT-VCG](#)

ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV ONT	REPT RMV RFVID
REPT RST AVO	REPT RST ONT
REPT RST RFVID	RMV-AVO
RMV-ONT	RMV-RFVID
RST-AVO	RST-RFVID
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
RST-ONT:[TID]:<OntAid>:[CTAG];
```

Input Parameters

OntAid Optical Network Termination Access Identifier. The address of the ONT which is to be restored to service. *OntAid* is the AID [OntAid](#).

Input Example

```
RST-ONT:SYS:N2-3-12-1-23:90;
```

Errors

This message generates all of the [Default Errors](#).

Name

RST-PON: Restore Passive Optical Network

Description

Category: PON **Security:** Maintenance - by rate

This instructs a C7 to restore a PON port to service. The entity is taken from a maintenance state and placed in an in-service state for which the unit is ready to provide its service functions. It is assumed that these entities are in good working condition.

The MA-MT service states will be removed from the entity and if no other out of service condition exists will transition into a in service state.

If any alarmable condition exists on the entity or a supporting entity, then the alarm will be generated. Also, future alarms are no longer suppressed.

Defined in GR-833.

Input Format

```
RST-PON:[TID]:<PonAid>:[CTAG];
```

Input Parameters

PonAid Passive Optical Network Access Identifier. The address of the PON which is to be restored to service. *PonAid* is the AID [FourPortLuAid](#).

Input Example

```
RST-PON:SYS:N2-3-12-1:87;
```

Errors

This message generates all of the [Default Errors](#).

RST-PP

Name

RST-PP: Restore PP

Description

Category: Virtual Facility

Security: Maintenance - by rate

This instructs a C7 to restore a Pseudo port to service. The entity is taken from a maintenance state and placed in an in-service state for which the unit is ready to provide its service functions. It is assumed that these entities are in good working condition.

The MA-MT service states will be removed from the entity and if no other out of service condition exists will transition into a in service state.

If any alarmable condition exists on the entity or a supporting entity, then the alarm will be generated. Also, future alarms are no longer suppressed.

Defined in GR-833.

Related Messages:

[ACT-PROTN-VC](#)

[DLT-CRS-VC](#)

[DLT-PP](#)

[ED-CRS-VC](#)

[ED-PROF-TRF](#)

[ENT-CRS-VP](#)

[ENT-PROF-TRF](#)

[INIT-CSTAT-VP](#)

[INJ-LPBK-VP](#)

[MV-CRS-VP](#)

[OPR-CC-VP](#)

[REPT EVT PP](#)

[REPT EVT VP](#)

[REPT RST PP](#)

[RLS-CC-VP](#)

[RTRV-ALM-PP](#)

[RTRV-CRS-VC](#)

[RTRV-CSTAT-VC](#)

[RTRV-PP](#)

[RTRV-VTI](#)

[ACT-PROTN-VP](#)

[DLT-CRS-VP](#)

[DLT-PROF-TRF](#)

[ED-CRS-VP](#)

[ENT-CRS-VC](#)

[ENT-PP](#)

[INIT-CSTAT-VC](#)

[INJ-LPBK-VC](#)

[MV-CRS-VC](#)

[OPR-CC-VC](#)

[REPT ALM PP](#)

[REPT EVT VC](#)

[REPT RMV PP](#)

[RLS-CC-VC](#)

[RMV-PP](#)

[RTRV-COND-PP](#)

[RTRV-CRS-VP](#)

[RTRV-CSTAT-VP](#)

[RTRV-PROF-TRF](#)

Input Format

RST-PP : [TID] : <PpAid> : [CTAG] ;

Input Parameters

PpAid Pseudo Port Identifier. *PpAid* is the AID [PpAid](#).

Input Example

```
RST-PP:SYSB:N1-1-2-PP1:555;
```

Errors

This message generates all of the [Default Errors](#).

RST-RFVID

Name

RST-RFVID: Restore Rf-Video Port

Description

Category: PON **Security:** Maintenance - by rate

This instructs a C7 to restore a Rf-Video port to service. The entity is taken from a maintenance state and placed in an in-service state for which the unit is ready to provide its service functions. It is assumed that these entities are in good working condition.

The MA-MT service states will be removed from the entity and if no other out of service condition exists will transition into a in service state.

If any alarmable condition exists on the entity or a supporting entity, then the alarm will be generated. Also, future alarms are no longer suppressed.

Defined in GR-833.

Related Messages:

[DLT-AVO](#)
[DLT-IG-VDS1](#)
[DLT-PROF-ONT](#)
[DLT-VCG](#)
[ED-AVO](#)
[ED-ONT](#)
[ED-RFVID](#)
[ED-VRP](#)
[ENT-GOS-ONT](#)
[ENT-ONT](#)
[ENT-RFVID](#)

[DLT-GOS-ONT](#)
[DLT-ONT](#)
[DLT-RFVID](#)
[DLT-VRP](#)
[ED-GOS-ONT](#)
[ED-PROF-ONT](#)
[ED-VCG](#)
[ENT-AVO](#)
[ENT-IG-VDS1](#)
[ENT-PROF-ONT](#)
[ENT-VCG](#)

ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV ONT	REPT RMV RFVID
REPT RST AVO	REPT RST ONT
REPT RST RFVID	RMV-AVO
RMV-ONT	RMV-RFVID
RST-AVO	RST-ONT
RTRV-ALM-AVO	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
RST-RFVID:[TID]:<OntPortAid>:[CTAG];
```

Input Parameters

OntPortAid Rf-Video Port Access Identifier. The address of the RFVID port. (The ONT port number must be equal to 1.) *OntPortAid* is the AID [OntPortAid](#).

Input Example

```
RST-RFVID:SYS:N2-4-6-1-18-1:86;
```

Errors

This message generates all of the [Default Errors](#).

Name

RST-T0: Restore Digital Signal Zero

Description

Category: DS0 Facility **Security:** Maintenance - by rate

This instructs a C7 to restore a T0 port to service. The entity is taken from a maintenance state and placed in an in-service state for which the unit is ready to provide its service functions. It is assumed that these entities are in good working condition.

The MA-MT service states will be removed from the entity and if no other out of service condition exists will transition into a in service state.

If any alarmable condition exists on the entity or a supporting entity, then the alarm will be generated. Also, future alarms are no longer suppressed.

Defined in GR-833.

Related Messages:

[DLT-CRS-T0](#)

[ED-T0](#)

[ENT-T0](#)

[REPT EVT T0](#)

[REPT RST T0](#)

[RTRV-ALM-T0](#)

[RTRV-CRS-T0](#)

[RTRV-T0](#)

[DLT-T0](#)

[ENT-CRS-T0](#)

[REPT ALM T0](#)

[REPT RMV T0](#)

[RMV-T0](#)

[RTRV-COND-T0](#)

[RTRV-CSTAT-T0](#)

Input Format

```
RST-T0:[TID]:<T0Aid>:[CTAG];
```

Input Parameters

T0Aid T0 Port Access Identifier. The address of the T0 port being restored to service. *T0Aid* is the AID [TwentyFourPortLuAid](#).

Input Example

```
RST-T0:SYS3:N3-4-6-1:555;
```

Errors

This message generates all of the [Default Errors](#).

RST-T1

Name

RST-T1: Restore Digital Signal One

Description

Category: DS1 Facility **Security:** Maintenance - by rate

This instructs a C7 to restore a T1 port to service. The entity is taken from a maintenance state and placed in an in-service state for which the unit is ready to provide its service functions. It is assumed that these entities are in good working condition.

The MA-MT service states will be removed from the entity and if no other out of service condition exists will transition into a in service state.

If any alarmable condition exists on the entity or a supporting entity, then the alarm will be generated. Also, future alarms are no longer suppressed.

Defined in GR-833.

Related Messages:

[DLT-AP-T1](#)

[DLT-CRS-T1](#)

[DLT-GOS-T1](#)

[DLT-T1](#)

[ED-GOS-T1](#)

[ED-T1](#)

[ENT-AP-T1](#)

[ENT-CRS-T1](#)

[ENT-GOS-T1](#)

[ENT-T1](#)

[INIT-REG-T1](#)

[OPR-LPBK-T1](#)

[REPT ALM T1](#)

[REPT EVT T1](#)

[REPT RMV T1](#)

[REPT RST T1](#)

[RLS-LPBK-T1](#)

[RMV-T1](#)

[RTRV-ALM-T1](#)

[RTRV-COND-T1](#)

[RTRV-CRS-T1](#)

[RTRV-GOS-T1](#)

[RTRV-PM-T1](#)

[RTRV-T1](#)

Input Format

RST-T1 : [TID] : <Ds1Aid> : [CTAG] ;
--

Input Parameters

Ds1Aid T1 Port Access Identifier. The address of the T1 port being restored to service. *Ds1Aid* is the AID [TwelvePortLuAid](#).

Input Example

```
RST-T1:SYS3:N3-4-6-1:555;
```

Errors

This message generates all of the [Default Errors](#).

RST-T3

Name

RST-T3: Restore Digital Signal 3

Description

Category: DS3 Facility **Security:** Maintenance - by rate

This instructs a C7 to restore a T3 port to service. The entity is taken from a maintenance state and placed in an in-service state for which the unit is ready to provide its service functions. It is assumed that these entities are in good working condition.

The MA-MT service states will be removed from the entity and if no other out of service condition exists will transition into a in service state.

If any alarmable condition exists on the entity or a supporting entity, then the alarm will be generated. Also, future alarms are no longer suppressed.

Defined in GR-833.

Related Messages:

[DLT-GOS-T3](#)
[ED-GOS-T3](#)
[ENT-GOS-T3](#)
[INIT-REG-T3](#)
[REPT ALM T3](#)
[REPT RMV T3](#)
[RLS-LPBK-T3](#)
[RTRV-ALM-T3](#)

[DLT-T3](#)
[ED-T3](#)
[ENT-T3](#)
[OPR-LPBK-T3](#)
[REPT EVT T3](#)
[REPT RST T3](#)
[RMV-T3](#)
[RTRV-COND-T3](#)

[RTRV-GOS-T3](#)
[RTRV-T3](#)

[RTRV-PM-T3](#)

Input Format

```
RST-T3 : [ TID ] : <Ds3Aid> : [ CTAG ] ;
```

Input Parameters

Ds3Aid T3 Port Access Identifier. The address of the T3 port being restored to service. *Ds3Aid* is the AID [T3Aid](#).

Input Example

```
RST-T3 : SYS3 : N3-4-6-1 : 555 ;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-<OCN>

Name

RTRV-<[OCN](#)>: Retrieve (OC12, OC3, OC48)

Description

Category: OCn Facility **Security:** Memory Admin - read

Instructs the C7 to retrieve information on the OCn port.

Defined in GR-199.

Related Messages:

[DLT-<OCN>](#)
[DLT-GOS-<OCN>](#)
[ED-<OCN>](#)
[ENT-<OCN>](#)
[ENT-GOS-<OCN>](#)
[OPR-LPBK-<OCN>](#)

[DLT-FFP-<OCN>](#)
[ED-<OCN>](#)
[ED-GOS-<OCN>](#)
[ENT-FFP-<OCN>](#)
[INIT-REG-<OCN>](#)
[OPR-PROTNSW-<OCN>](#)

[REPT ALM <OCN>](#)
[REPT RMV <OCN>](#)
[RLS-LPBK-<OCN>](#)
[RMV-<OCN>](#)
[RTRV-ALM-<OCN>](#)
[RTRV-FFP-<OCN>](#)
[RTRV-PM-<OCN>](#)

[REPT EVT <OCN>](#)
[REPT RST <OCN>](#)
[RLS-PROTNSW-<OCN>](#)
[RST-<OCN>](#)
[RTRV-COND-<OCN>](#)
[RTRV-GOS-<OCN>](#)

Input Format

```
RTRV-<OCN>:[ TID ]:<OcNAid>:[ CTAG ] ;
```

Input Parameters

OcNAid OCn Port Access Identifier. The address of the OCn port being retrieved. *OcNAid* is the AID [FourPortLuAndRapNtwkRngAid](#) and is listable and rangeable. *OcNAid* must not be null.

Input Example

```
RTRV-OC12:SYS3:N3-3-19-2:CTAG ;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<OcNAid>::[[ TXS1=<TXS1>, ][ RXS1=<RXS1>, ][ LSREN=<LSREN>, ][ EXT=<EXT>, ]
[ FEPM=<FEPM>, ][ ALMPROF=<ALMPROF>, ][ SDBER=<SDBER>, ][ SFBER=<SFBER>, ]
[ GOS=<GOS>, ][ PDOM=<PDOM>, ][ DESC=<DESC> ]:[ <PST> ], [ <SST> ]"
;
```

Output Parameters

- | | |
|---------------|--|
| OcNAid | OCn Port Access Identifier. The address of the OCn port retrieved. <i>OcNAid</i> is the AID FourPortLuAndRapAid . |
| TXS1 | Transmit S1. This parameter is set to Y if the sync status nibble indicates the source of timing. It is set to N if the nibble is set to Do not Use for Synchronization (DUS). <i>TXS1</i> is of type BoolYN . <i>TXS1</i> is optional. |
| RXS1 | Receive S1. This parameter is set to Y if the received S1 sync status is to be acted upon. It is set to N if it is to be ignored. <i>RXS1</i> is of type BoolYN . <i>RXS1</i> is optional. |
| LSREN | LaSeR ENable. This parameter is set to Y to enable transmitting a signal over this facility. If the facility is to be used for receiving only, the value should be set to N. <i>LSREN</i> is of type BoolYN . <i>LSREN</i> is optional. |
| EXT | External Interface. This indicates if the OCn port is an internal or external path in the network. The value should be set to "Y" when the port is an external interface. It should be set to "N" when the port is connected to other shelves within a network of C7s. Note that |

EXT cannot be set to "N" on Sonet-only cards. Also note that this parameter must be changed independently of others, ie. a separate ED-OCn command is required. *EXT* is of type [BoolYN](#). *EXT* is optional.

- FEPM** Far End Performance Monitoring. When this parameter is set to "N", the Far End Performance Monitoring data is not collected. When retrieving Far End PM, the Monitored Values (MONVAL) field will contain '0' and the Validity (VLDTY) field will contain 'INVLD'. When this parameter is set to "Y", data collection for Far End Performance Monitoring is enabled. The default value is "N". *FEPM* is of type [BoolYN](#). *FEPM* is optional.
- ALMPROF** Alarm Profile. The set of alarm Notification codes associated with this entity. *ALMPROF* is the AID [AlmProfileAid](#). *ALMPROF* is optional.
- SDBER** Signal Degraded Bit Error Rate. The threshold value above which the Line's bit error rate constitutes a Degraded Signal. *SDBER* is of type [BitErrorRateSD](#). *SDBER* is optional.
- SFBER** Signal Failed Bit Error Rate. The threshold value above which the Line's bit error rate constitutes a Failed Signal. *SFBER* is of type [BitErrorRateSF](#). *SFBER* is optional.
- GOS** Grade of service. This identifies the OCn grade of service for performance monitoring (PM) which is applied to the OCn port. *GOS* is the AID [GosAid](#). *GOS* is optional.
- PDOM** Protection DOMain. This is an integer that is used to associate a transport facility into a protection domain that is used for A to Z connection provisioning. The PDOM for each domain must be a unique non-zero integer. The value of 0 is reserved to indicate that the facility is not to be used for A to Z connections. *PDOM* is of type [Pdom](#). *PDOM* is optional.
- DESC** DESCription. A user-settable description field, up to 31 characters. *DESC* is a String. *DESC* is optional.
- PST** Primary Service State. This parameter specifies the overall service condition of the OCn port. *PST* is of type [PrimaryState](#). *PST* is optional.
- SST** Secondary Service State. This parameter provides additional state information that is relevant. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "N3-3-19-
2:::TXS1=N,RXS1=N,LSREN=Y,EXT=Y,FEPM=Y,ALMPROF=AISCR,SDBER=6,
  SFBER=4,GOS=3,PDOM=0,DESC="DESCRIPTION":IS-NR,ADA"
;
```

Errors

This message generates all of the [Default Errors](#).

Name

RTRV-<[STS1](#)>: Retrieve (STS1, STS12C, STS3C, STS48C)

Description

Category: STSn Path **Security:** Memory Admin - read

Retrieves parameters associated with a STS1 path.

Defined in GR-199.

Related Messages:

[DLT-<STS1>](#)
[DLT-GOS-<STS1>](#)
[ED-CRS-<STS1>](#)
[ENT-<STS1>](#)
[ENT-GOS-<STS1>](#)
[OPR-PROTNSW-<STS1>](#)
[REPT EVT <STS1>](#)
[REPT RST <STS1>](#)
[RMV-<STS1>](#)
[RTRV-ALM-<STS1>](#)
[RTRV-CRS-<STS1>](#)
[RTRV-PM-<STS1>](#)

[DLT-CRS-<STS1>](#)
[ED-<STS1>](#)
[ED-GOS-<STS1>](#)
[ENT-CRS-<STS1>](#)
[INIT-REG-<STS1>](#)
[REPT ALM <STS1>](#)
[REPT RMV <STS1>](#)
[RLS-PROTNSW-<STS1>](#)
[RST-<STS1>](#)
[RTRV-COND-<STS1>](#)
[RTRV-GOS-<STS1>](#)

Input Format

```
RTRV-<STS1>:[ TID ]:<StsAid>:[ CTAG ];
```

Input Parameters

StsAid STS Path Access Identifier. The address of the STS path which is being retrieved. *StsAid* is the AID [StsNtwkRngAid](#) and is listable and rangeable. *StsAid* must not be null.

Input Example

```
RTRV-STS1:SYS1:N4-4-2-3-3:234;
```

Output Format

SID	DATE	TIME
M	CTAG	COMPLD
"<StsAid>::[[STSMAP=<STSMAP>,][TIMDET=<TIMDET>,][EXPTRC=<EXPTRC>,]		

```
[ TRC=<TRC> , ] [ FEPM=<FEPM> , ] [ ALMPROF=<ALMPROF> , ] [ SDBER=<SDBER> , ]
[ SFBER=<SFBER> , ] [ GOS=<GOS> , ] [ PYLDSCRM=<PYLDSCRM> , ] [ ATMMON=<ATMMON> , ]
    [ DESC=<DESC> ] :[ <PST> , [ <SST> ] "
;
```

Output Parameters

StsAid	STS Path Access Identifier. The address of the STS path which is retrieved. <i>StsAid</i> is the AID StsAid . <i>StsAid</i> is optional.
STSMAP	STS Mapping. This parameter indicates the type of mapping supported by the STS-p SPE. <i>STSMAP</i> is of type StsMap . <i>STSMAP</i> is optional.
TIMDET	Trace Identifier Mismatch Detection. This parameter indicates whether to turn on or off the trace identifier mismatch detection for the expected trace. <i>TIMDET</i> is of type OnOff . <i>TIMDET</i> is optional.
EXPTRC	Expected Path Trace. This parameter is the expected Path Trace (J1) content. The maximum length of the string is 62 characters. The system will automatically add a carriage return (CR) and line feed (LF) to end of string to make it 64 characters. <i>EXPTRC</i> is a String. <i>EXPTRC</i> is optional.
TRC	Transmit Path Trace. This parameter indicates the path trace to be transmitted. The maximum length of the string is 62 characters. The system will automatically add a carriage return (CR) and line feed (LF) to end of string to make it 64 characters. <i>TRC</i> is a String. <i>TRC</i> is optional.
FEPM	Far End Performance Monitoring. When this parameter is set to "N", the Far End Performance Monitoring data is not collected. When retrieving Far End PM, the Monitored Values (MONVAL) field will contain '0' and the Validity (VLDTY) field will contain 'INVLD'. When this parameter is set to "Y", data collection for Far End Performance Monitoring is enabled. The default value is "N". <i>FEPM</i> is of type BoolYN . <i>FEPM</i> is optional.
ALMPROF	Alarm Profile. The set of alarm Notification codes associated with this entity. <i>ALMPROF</i> is the AID AlmProfileStsAid . <i>ALMPROF</i> is optional.
SDBER	Signal Degraded Bit Error Rate. The threshold value above which the Path's bit error rate constitutes a Degraded Signal. <i>SDBER</i> is of type BitErrorRateSD . <i>SDBER</i> is optional.
SFBER	Signal Failed Bit Error Rate. The threshold value above which the Path's bit error rate constitutes a Failed Signal. <i>SFBER</i> is of type BitErrorRateSF . <i>SFBER</i> is optional.
GOS	Grade of Service Access Identifier. This identifies the specific Grade of Service for Performance Monitoring (PM) which will be applied to the STSn facility. <i>GOS</i> is the AID GosAid . <i>GOS</i> is optional.
PYLDSCRM	Payload Scrambling. This parameter is set to Y to enable the scrambling of ATM cells. Although this parameter only applies when the STSMAP is ATMNNI or ATMUNI, it may be present in the reponse as "PYLDSCRM=N". A missing PYLDSCRM response parameter should be interpreted as "PYLDSCRM=Y". <i>PYLDSCRM</i> is of type BoolYN . <i>PYLDSCRM</i> is optional.
ATMMON	ATM Diagnostic Monitoring. This parameter is set to Y to enable ATM diagnostic monitoring on the STS path. If enabled, an ATM OAM loopback ping is injected on VP0-VC3 to verify point-to-point connectivity with the next line unit. It applies only to ATMNNI and ATMUNI interfaces. <i>ATMMON</i> is of type BoolYN . <i>ATMMON</i> is optional.

- DESC** DESCription. A user-settable description field, up to 31 characters. *DESC* is a String.
DESC is optional.
- PST** Primary Service State. This parameter specifies the overall service condition. *PST* is of type [PrimaryState](#). *PST* is optional.
- SST** Secondary Service State. This parameter provides additional state information that is relevant. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "N4-4-2-3-3::STSMAP=PACKET,TIMDET=ON,EXPTRC=\\"EXPECTED PATH
TRACE\\",
TRC=\\"TRACE\\",FEPM=Y,ALMPROF=AISCR,SDBER=6,SFBER=4,GOS=3,PYLDSCRM=Y,
ATMMON=N,DESC=\\"DESCRIPTION\\":OOS-AU,FLT"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ACO

Name

RTRV-ACO: Retrieve Alarm Cutoff

Description

Category: Fault **Security:** Memory Admin - read

This command is used to retrieve the data parameters and state parameters associated with an alarm cutoff.

Defined by Calix.

Related Messages:

[ALW-MSG-ALL](#)
[OPR-ACO](#)
[RTRV-COND-ACO](#)

[INH-MSG-ALL](#)
[RTRV-ALM-ALL](#)
[SET-ACO](#)

Input Format



```
RTRV-ACO:[TID]:<NodeAid>:[CTAG];
```

Input Parameters

NodeAid Alarm Cutoff Access Identifier. The address of the alarm cutoff being retrieved. *NodeAid* is the AID [NodeId](#) and is listable and rangeable. *NodeAid* must not be null.

Input Example

```
RTRV-ACO:SYS1:N3:444;
```

Output Format

```
    SID DATE TIME
M    CTAG COMPLD
    "<NodeAid>:<ACOMODE>"
;
```

Output Parameters

NodeAid Alarm Cutoff Access Identifier. The address of the alarm cutoff retrieved. *NodeAid* is the AID [NodeId](#).

ACOMODE Alarm Cutoff Mode. This parameter indicates the mode of alarm cutoff operation. *ACOMODE* is of type [AlarmCutoffMode](#).

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
    "N3:DELD"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ADSL

Name

RTRV-ADSL: Retrieve Asymmetric Digital Subscriber Line

Description

Category: ADSL Facility

Security: Memory Admin - read

This command is used to retrieve the provisionable parameters and service state of an ADSL port.

Defined in GR-199.

Related Messages:

[DLT-ADSL](#)

[DLT-TMPLT-ADSL](#)

[ED-GOS-ADSL](#)

[ENT-GOS-ADSL](#)

[INIT-ADSL](#)

[INIT-REG-ADSL](#)

[REPT EVT ADSL](#)

[REPT RST ADSL](#)

[RST-ADSL](#)

[RTRV-COND-ADSL](#)

[RTRV-GOS-ADSL](#)

[RTRV-TMPLT-ADSL](#)

[DLT-GOS-ADSL](#)

[ED-ADSL](#)

[ENT-ADSL](#)

[ENT-TMPLT-ADSL](#)

[INIT-PWR-ADSL](#)

[REPT ALM ADSL](#)

[REPT RMV ADSL](#)

[RMV-ADSL](#)

[RTRV-ALM-ADSL](#)

[RTRV-CSTAT-ADSL](#)

[RTRV-PM-ADSL](#)

Input Format

RTRV-ADSL:[TID]:<AdslAid>:[CTAG];

Input Parameters

AdslAid ADSL Port Access Identifier. The address of the ADSL port being retrieved. *AdslAid* is the AID [TwentyFourPortLuNtwkRngAid](#) and is listable and rangeable. *AdslAid* must not be null.

Input Example

RTRV-ADSL:SYS1:N3-5-3-8:329;

Output Format

```

SID DATE TIME
M CTAG COMPLD
  "<AdslAid>:[<SRVTYPE>],[<CHNL0>],[<CHNL1>]:[[XDSR0=<XDSR0>,]
  [MDSR0=<MDSR0>],[XUSR0=<XUSR0>],[MUSR0=<MUSR0>],[XDSR1=<XDSR1>,
  [MDSR1=<MDSR1>],[XUSR1=<XUSR1>],[MUSR1=<MUSR1>],[DSEXR=<DSEXR>,
  [USEXR=<USEXR>],[TMDS=<TMDS>],[XMDS=<XMDS>],[MMDS=<MMDS>],[TMUS=<TMUS>,
  [XMUS=<XMUS>],[MMUS=<MMUS>],[DSLAT=<DSLAT>],[USLAT=<USLAT>],[TC=<TC>,
  [RAMODEDS=<RAMODEDS>],[RAMODEUS=<RAMODEUS>],[RAUMDS=<RAUMDS>,
  [RADMDS=<RADMDS>],[RAUTDS=<RAUTDS>],[RADTDS=<RADTDS>],[RAUMUS=<RAUMUS>,
  [RADMUS=<RADMUS>],[RAUTUS=<RAUTUS>],[RADTUS=<RADTUS>],[PMMODE=<PMMODE>,
  
```

```
[L0TIME=<L0TIME>, ][L2TIME=<L2TIME>, ][L2ATPR=<L2ATPR>, ][L2MINR=<L2MINR>, ]
[L2EXITR=<L2EXITR>, ][L2ENTRYR=<L2ENTRYR>, ][L2ENTRYT=<L2ENTRYT>, ]
[DSST=<DSST>, ][DSET=<DSET>, ][USST=<USST>, ][USET=<USET>, ][GOS=<GOS>, ]
[REPTRMVRST=<REPTRMVRST>, ][DESC=<DESC>]:[<PST>],[<SST>]"
;
```

Output Parameters

AdslAid	ADSL Port Access Identifier. The address of the ADSL port being retrieved. <i>AdslAid</i> is the AID TwentyFourPortLuAid .
SRVTYPE	Service Type. This parameter specifies the ADSL operating modes that dictate the ADSL handshaking protocol, channel capacity, and other physical line characteristics based on ADSL specifications. <i>SRVTYPE</i> is of type AdslType . <i>SRVTYPE</i> is optional.
CHNL0	Channel 0 Selection/Allocation. Settings for channel path latency. Choosing a latency path of Fast means minimum (4 ms) delay is expected while choosing a latency path of Interleaved means more delay. <i>CHNL0</i> is of type ChnlSelect0 . <i>CHNL0</i> is optional.
CHNL1	Channel 1 Selection/Allocation. Settings for channel path latency. Choosing a latency path of Fast means minimum (4 ms) delay is expected while choosing a latency path of Interleaved means more delay. <i>CHNL1</i> is of type ChnlSelect1 . <i>CHNL1</i> is optional.
XDSR0	Maximum Downstream Rate - Channel 0. Specifies the maximum downstream rate for channel 0. This parameter is specified in kilobits per second (Kbps). This parameter is a number between 32 and 10816. <i>XDSR0</i> is of type DwnStreamRate . <i>XDSR0</i> is optional.
MDSR0	Minimum Downstream Rate - Channel 0 Specifies the minimum downstream rate for channel 0. This parameter is specified in kilobits per second (Kbps). This parameter is a number between 32 and 10816. <i>MDSR0</i> is of type DwnStreamRate . <i>MDSR0</i> is optional.
XUSR0	Maximum Upstream Rate - Channel 0. Specifies the maximum upstream rate for channel 0. This parameter is specified in kilobits per second (Kbps). This parameter is a number between 32 and 2048. <i>XUSR0</i> is of type UpStreamRate . <i>XUSR0</i> is optional.
MUSR0	Minimum Upstream Rate - Channel 0. Specifies the minimum upstream rate for channel 0. This parameter is specified in kilobits per second (Kbps). This parameter is a number between 32 and 2048. <i>MUSR0</i> is of type UpStreamRate . <i>MUSR0</i> is optional.
XDSR1	Maximum Downstream Rate - Channel 1. Specifies the maximum downstream rate for channel 1. This parameter is specified in kilobits per second (Kbps). This parameter is a number between 32 and 10816. <i>XDSR1</i> is of type DwnStreamRate . <i>XDSR1</i> is optional.
MDSR1	Minimum Downstream Rate - Channel 1. Specifies the minimum downstream rate for channel 1. This parameter is specified in kilobits per second (Kbps). This parameter is a number between 32 and 10816. <i>MDSR1</i> is of type DwnStreamRate . <i>MDSR1</i> is optional.
XUSR1	Maximum Upstream Rate - Channel 1. Specifies the maximum upstream rate for channel 1. This parameter is specified in kilobits per second (Kbps). This parameter is a number between 32 and 2048. <i>XUSR1</i> is of type UpStreamRate . <i>XUSR1</i> is optional.
MUSR1	Minimum Upstream Rate - Channel 1. Specifies the minimum upstream rate for

channel 1. This parameter is specified in kilobits per second (Kbps). This parameter is a number between 32 and 2048. *MUSR1* is of type [UpStreamRate](#). *MUSR1* is optional.

DSEXSR

Downstream Excess Rate Ratio. Specifies the percentage of excess bit rate (a number between 1 and 100) that the system applies to the downstream channel 0. The system applies the remaining percentage to channel 1. The excess bit rate is the bandwidth that remains after the system subtracts the total minimum rates of both channels from the total line bandwidth. (Values in kbps) *DSEXSR* is of type [ExcessRate](#). *DSEXSR* is optional.

USEXR

Upstream Excess Rate Ratio. Specifies the percentage of excess bit rate (a number between 1 and 100) that the system applies to the upstream channel 0. The system applies the remaining percentage to channel 1. The excess bit rate is the bandwidth that remains after the system subtracts the total minimum rates of both channels from the total line bandwidth. (Values in kbps) *USEXR* is of type [ExcessRate](#). *USEXR* is optional.

TMDS

Target Downstream SNR Margin. This parameter specifies the desired downstream signal to noise ratio margin in dB. This margin specifies how much noise can increase while still achieving a BER of at least 10-7. Actual connection margins may be greater than or less than the desired target margin based on the configured maximum and minimum downstream bit rates. Higher connect margins will result when maximum configured data rates are lower than the maximum achievable data rates. Lower connect margins will result when the minimum configured data rate is not achievable at the desired margin. *TMDS* is of type [SnrTargetMargins](#). *TMDS* is optional.

XMDS

Maximum Downstream SNR Margin. This parameter specifies the maximum downstream signal to noise ratio (SNR) margin in dB. This margin is a threshold for reducing the transmit power of the ATU-C. It may not always be possible to reduce the actual connection margin for short loops and lower bit rate configuration. As a result, a connect margin greater than the specified maximum margin is possible. The maximum downstream SNR margin must be greater than the target downstream SNR margin. *XMDS* is of type [SnrMaxMargins](#). *XMDS* is optional.

MMDS

Minimum Downstream SNR Margin. This parameter specifies the minimum downstream signal to noise ratio margin in dB. This margin specifies the minimum threshold allowed for modem operation. The connection will fail if the operating downstream margin falls below the specified minimum for more than 20 seconds and a modem retrain will be attempted. The minimum downstream margin must be less than the target downstream margin. *MMDS* is of type [SnrMinMargins](#). *MMDS* is optional.

TMUS

Target Upstream SNR Margin. This parameter specifies the desired upstream signal to noise ratio (SNR) margin in dB. This margin specifies how much noise can increase while still achieving a BER of at least 10-7. Actual connection margins may be greater than or less than the desired target margin based on the configured maximum and minimum upstream bit rates. Higher connect margins will result when maximum configured data rates are lower than the maximum achievable data rates. Lower connect margins will result when the minimum configured data rate is not achievable at the desired margin. *TMUS* is of type [SnrTargetMargins](#). *TMUS* is optional.

XMUS

Maximum Upstream SNR Margin. This parameter specifies the maximum upstream signal to noise ratio (SNR) margin in dB. This margin is a threshold for reducing the transmit power of the ATU-R. It may not always be possible to reduce the actual connection margin for short loops and lower bit rate configuration. As a result, a

connect margin greater than the specified maximum margin is possible. The maximum upstream SNR margin must be greater than the target upstream SNR margin. *XMUS* is of type [SnrMaxMargins](#). *XMUS* is optional.

MMUS	Minimum Upstream SNR Margin. This parameter specifies the minimum upstream signal to noise ratio (SNR) margin in dB. This margin specifies the minimum threshold allowed for modem training. The connection will fail if the operating upstream margin falls below the specified minimum for more than 20 seconds. The minimum upstream margin must be less than the target upstream margin <i>MMUS</i> is of type SnrMinMargins . <i>MMUS</i> is optional.
DSLAT	Downstream Latency. Specifies in milliseconds (ms) the delay of the data transmission in the downstream link on an interleaved channel (if the value in either the CHNL0 or CHNL1 parameters is INTLV). This is a number between 5 ms and 64 ms. The AUTO setting allows the ADSL card to pick the most appropriate interleave latency. <i>DSLAT</i> is of type Latency . <i>DSLAT</i> is optional.
USLAT	Upstream Latency. Specifies in milliseconds (ms) the delay of the data transmission in the upstream link on an interleaved channel (if the value in either the CHNL0 or CHNL1 parameters is INTLV). This is a number between 5 ms and 64 ms. The AUTO setting allows the ADSL card to pick the most appropriate interleave latency. <i>USLAT</i> is of type Latency . <i>USLAT</i> is optional.
TC	Trellis Coding. Enables trellis coding to improve the DSL system performance. Trellis coding is an encoding scheme for piggybacking bits onto the electrical signal on the twisted pair. <i>TC</i> is of type TrellisCoding . <i>TC</i> is optional.
RAMODEDS	Rate Adaptation MODE DownStream. <i>RAMODEDS</i> is of type RateAdaptationMode . <i>RAMODEDS</i> is optional.
RAMODEUS	Rate Adaptation MODE UpStream. <i>RAMODEUS</i> is of type RateAdaptationMode . <i>RAMODEUS</i> is optional.
RAUMDS	Rate Adaptation Upshift Margin DownStream (dB). This applies when RAMODE is DYNAMIC. <i>RAUMDS</i> is of type SnrMaxMargins . <i>RAUMDS</i> is optional.
RADMDS	Rate Adaptation Downshift Margin DownStream (dB). This applies when RAMODE is DYNAMIC. <i>RADMDS</i> is of type SnrMaxMargins . <i>RADMDS</i> is optional.
RAUTDS	Rate Adaptation Upshift Time Downstream (seconds). This applies when RAMODE is DYNAMIC. <i>RAUTDS</i> is of type RateAdaptationMarginSeconds . <i>RAUTDS</i> is optional.
RADTDS	Rate Adaptation Downshift Time Downstream (seconds). This applies when RAMODE is DYNAMIC. <i>RADTDS</i> is of type RateAdaptationMarginSeconds . <i>RADTDS</i> is optional.
RAUMUS	Rate Adaptation Upshift Margin UpStream (dB). This applies when RAMODE is DYNAMIC. <i>RAUMUS</i> is of type SnrMaxMargins . <i>RAUMUS</i> is optional.
RADMUS	Rate Adaptation Downshift Margin UpStream (dB). This applies when RAMODE is DYNAMIC. <i>RADMUS</i> is of type SnrMaxMargins . <i>RADMUS</i> is optional.
RAUTUS	Rate Adaptation Upshift Time UpStream (seconds). This applies when RAMODE is DYNAMIC. <i>RAUTUS</i> is of type RateAdaptationMarginSeconds . <i>RAUTUS</i> is optional.
RADTUS	Rate Adaptation Downshift Time UpStream (seconds). This applies when RAMODE is DYNAMIC. <i>RADTUS</i> is of type RateAdaptationMarginSeconds . <i>RADTUS</i> is optional.

PMMODE	Power Management MODE. <i>PMMODE</i> is of type AdslPowerMgmtStates . <i>PMMODE</i> is optional.
L0TIME	Minimum L0 Time interval between L2 exit and next L2 entry. (seconds) <i>L0TIME</i> is a Integer. <i>L0TIME</i> is optional.
L2TIME	Minimum L2 time interval between L2 entry and first L2 trim. (seconds) <i>L2TIME</i> is a Integer. <i>L2TIME</i> is optional.
L2ATPR	Maximum Aggregate Transmit Power Reduction per L2 trim. (dB) <i>L2ATPR</i> is of type SnrMaxMargins . <i>L2ATPR</i> is optional.
L2MINR	Minimum Data Rate in Low Power Mode (L2). This parameter specifies the minimum net data rate (in Kbps) during the low power state. If the actual user data rate is lower than L2MINR, raw cells will be injected to maintain the provisioned value. The value can range from 256 to 1024 Kbps. <i>L2MINR</i> is a Integer. <i>L2MINR</i> is optional.
L2EXITR	L2 Exit Rate Threshold. This parameter specifies the downstream datarate threshold (in Kbps), which triggers exit from low power state (L2). The value ranges between 1 and 1024 Kbps, and must be less than L2MINR. <i>L2EXITR</i> is a Integer. <i>L2EXITR</i> is optional.
L2ENTRYR	L2 Entry Rate Threshold. This parameter specifies the downstream data rate threshold (in Kbps), which triggers autonomous entry into low power state (L2). The value can range from 1 to 1024, and must be less or equal to L2EXITR. <i>L2ENTRYR</i> is a Integer. <i>L2ENTRYR</i> is optional.
L2ENTRYT	L2 Entry Time Threshold. This parameter specifies minimum interval of time (in seconds) that the net data rate should stay below L2ENTRYR before autonomous entry into low power state (L2). The value can range from 900 to 65535 seconds. <i>L2ENTRYT</i> is a Integer. <i>L2ENTRYT</i> is optional.
DSST	DownStream Start Tone. (ADSL2, ADSL2+ only) <i>DSST</i> is a Integer. <i>DSST</i> is optional.
DSET	DownStream End Tone. ADSL2, ADSL2+ only. Defaults to 255 for ADSL2, and 511 for ADSL2+. <i>DSET</i> is a Integer. <i>DSET</i> is optional.
USST	UpStream Start Tone. (ADSL2, ADSL2+ only) <i>USST</i> is a Integer. <i>USST</i> is optional.
USET	UpStream End Tone (ADSL2, ADSL2+ only) <i>USET</i> is a Integer. <i>USET</i> is optional.
GOS	Grade of service. This identifies the ADSL grade of service for performance monitoring (PM) which will be applied to the ADSL port. <i>GOS</i> is the AID GosAid . <i>GOS</i> is optional.
REPTRMVRST	This parameter inhibits or enables the reporting of RMV/RST events for the port. Note that RMV/RST are reported upon every modem retrain and can clutter the event logs if enabled. If the value is absent, it should be interpreted as "N" <i>REPTRMVRST</i> is of type BoolYN . <i>REPTRMVRST</i> is optional.
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String. <i>DESC</i> is optional.
PST	Primary Service State. This is the service state which the user wants the ADSL port to transition into. The ADSL port can be put into service or out of service with the ED-ADSL command. <i>PST</i> is of type PrimaryState . <i>PST</i> is optional.
SST	Secondary Service State. This parameter provides additional state information that is relevant. <i>SST</i> is of type SecondaryState and is listable. <i>SST</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-5-3-
8:GLITE,FAST,INTLV:XDSR0=255,MDSR0=200,XUSR0=233,MUSR0=200,
XDSR1=128,MDSR1=100,XUSR1=64,MUSR1=10,DSEXR=100,USEXR=100,TMDS=15,
XMDS=-30,MMDS=-20,TMUS=15,XMUS=-30,MMUS=-32,DSLAT=24,USLAT=24,
TC=ENABLED,RAMODEDS=DYNAMIC,RAMODEUS=DYNAMIC,RAUMDS=31,RADMDS=0,
RAUTDS=30,RADTDS=30,RAUMUS=31,RADMUS=0,RAUTUS=30,RADTUS=30,PMMODE=L2,
L0TIME=5,L2TIME=5,L2ATPR=2,L2MINR=1024,L2EXITR=512,L2ENTRYR=1,
L2ENTRYT=1800,DSST=32,DSET=511,USST=6,USET=30,GOS=5,REPTRMVRST=N,
DESC="DESCRIPTION":IS-NR,ADA"
;

```

Errors

This message generates all of the [Default Errors](#).

RTRV-AGG

Name

RTRV-AGG: RTRV AGG ACL

Description

Category: Ethernet **Security:** Memory Admin - read

Retrieves aggregate elements in the source filter list associated with this slot. The EthAid will be displayed.

This command is not currently supported.

Related Messages:

[DLT-AGG](#)
[DLT-AGG-PORT](#)
[DLT-ETH-ACL](#)
[DLT-LSWITCH](#)
[DLT-PROF-ETH](#)
[DLT-VLAN-PORT](#)
[ED-ETH](#)
[ED-VLAN](#)

[DLT-AGG-ACL](#)
[DLT-ETH](#)
[DLT-GOS-ETH](#)
[DLT-LSWITCH-PORT](#)
[DLT-VLAN](#)
[DLT-VLAN-VBPORT](#)
[ED-GOS-ETH](#)
[ED-VLAN-PORT](#)

ED-VLAN-VBPORT	ENT-AGG
ENT-AGG-ACL	ENT-AGG-PORT
ENT-ETH	ENT-ETH-ACL
ENT-GOS-ETH	ENT-LSWITCH
ENT-LSWITCH-PORT	ENT-PROF-ETH
ENT-VLAN	ENT-VLAN-PORT
ENT-VLAN-VBPORT	INIT-LSWITCH
INIT-STAT-ETH	REPT ALM ETH
REPT EVT ETH	REPT RMV ETH
REPT RST ETH	RMV-ETH
RST-ETH	RTRV-AGG-ACL
RTRV-AGG-PORT	RTRV-ALM-ETH
RTRV-COND-ETH	RTRV-ETH
RTRV-ETH-ACL	RTRV-GOS-ETH
RTRV-LSWITCH	RTRV-LSWITCH-PORT
RTRV-PM-ETH	RTRV-PROF-ETH
RTRV-STAT-ETH	RTRV-VLAN
RTRV-VLAN-PORT	RTRV-VLAN-VBPORT

Input Format

```
RTRV-AGG:[TID]:<EthAggRngAid>:[CTAG];
```

Input Parameters

EthAggRngAid Ethernet Aggregate Ranging Access Identifier. *EthAggRngAid* is the AID [EthAggRngAid](#) and is listable and rangeable. *EthAggRngAid* must not be null.

Input Example

```
RTRV-AGG:SYS1:N4-3-1-2-AGG32:345;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<EthAggAid>"
;
```

Output Parameters

EthAggAid Ethernet Aggregate Access Identifier. *EthAggAid* is the AID [EthAggAid](#).

Output Example

```

M TID-000 98-06-20 14-30-00
M 001 COMPLD
; "N4-3-1-2-AGG32"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-AGG-ACL

Name

RTRV-AGG-ACL: RTRV AGG ACL

Description

Category: Ethernet **Security:** Memory Admin - read

Retrieves aggregate elements in the source filter list from the external ethernet port. The EthAid will be displayed with a list of mac addresses and their associated masks.

This command is not currently supported.

Related Messages:

DLT-AGG	DLT-AGG-ACL
DLT-AGG-PORT	DLT-ETH
DLT-ETH-ACL	DLT-GOS-ETH
DLT-LSWITCH	DLT-LSWITCH-PORT
DLT-PROF-ETH	DLT-VLAN
DLT-VLAN-PORT	DLT-VLAN-VBPORT
ED-ETH	ED-GOS-ETH
ED-VLAN	ED-VLAN-PORT
ED-VLAN-VBPORT	ENT-AGG
ENT-AGG-ACL	ENT-AGG-PORT
ENT-ETH	ENT-ETH-ACL
ENT-GOS-ETH	ENT-LSWITCH
ENT-LSWITCH-PORT	ENT-PROF-ETH
ENT-VLAN	ENT-VLAN-PORT
ENT-VLAN-VBPORT	INIT-LSWITCH
INIT-STAT-ETH	REPT ALM ETH
REPT EVT ETH	REPT RMV ETH

REPT RST ETH	RMV-ETH
RST-ETH	RTRV-AGG
RTRV-AGG-PORT	RTRV-ALM-ETH
RTRV-COND-ETH	RTRV-ETH
RTRV-ETH-ACL	RTRV-GOS-ETH
RTRV-LSWITCH	RTRV-LSWITCH-PORT
RTRV-PM-ETH	RTRV-PROF-ETH
RTRV-STAT-ETH	RTRV-VLAN
RTRV-VLAN-PORT	RTRV-VLAN-VBPORT

Input Format

```
RTRV-AGG-ACL:[TID]:<EthAggAid>:[CTAG];
```

Input Parameters

EthAggAid Ethernet Aggregate ACL Ranging Access Identifier. *EthAggAid* is the AID [EthAggRngAid](#) and is listable and rangeable. *EthAggAid* must not be null.

Input Example

```
RTRV-AGG-ACL:SYS1:N4-3-1-2-AGG32:345;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<EthAggAid>::[ [MAC=<MAC>, ][MMSK=<MMSK>] ] "
; ;
```

Output Parameters

EthAggAid Ethernet Aggregate ACL Access Identifier. *EthAggAid* is the AID [EthAggAid](#).

MAC MAC address of the ACL entry. *MAC* is the AID [MacAid](#). *MAC* is optional.

MMSK MAC address mask. *MMSK* is the AID [MacAid](#). *MMSK* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N4-3-1-2-AGG32::MAC=01-23-45-67-89-AB,MMSK=01-23-45-67-89-
AB"
; ;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-AGG-PORT

Name

RTRV-AGG-PORT: RTRV AGG PORT

Description

Category: Ethernet **Security:** Memory Admin - read

This command is used to retrieve the provisionable parameters of the Link Aggregate port.

Defined by Calix.

This command is not currently supported.

Related Messages:

[DLT-AGG](#)

[DLT-AGG-PORT](#)

[DLT-ETH-ACL](#)

[DLT-LSWITCH](#)

[DLT-PROF-ETH](#)

[DLT-VLAN-PORT](#)

[ED-ETH](#)

[ED-VLAN](#)

[ED-VLAN-VBPORT](#)

[ENT-AGG-ACL](#)

[ENT-ETH](#)

[ENT-GOS-ETH](#)

[ENT-LSWITCH-PORT](#)

[ENT-VLAN](#)

[ENT-VLAN-VBPORT](#)

[INIT-STAT-ETH](#)

[REPT EVT ETH](#)

[REPT RST ETH](#)

[RST-ETH](#)

[RTRV-AGG-ACL](#)

[RTRV-COND-ETH](#)

[RTRV-ETH-ACL](#)

[DLT-AGG-ACL](#)

[DLT-ETH](#)

[DLT-GOS-ETH](#)

[DLT-LSWITCH-PORT](#)

[DLT-VLAN](#)

[DLT-VLAN-VBPORT](#)

[ED-GOS-ETH](#)

[ED-VLAN-PORT](#)

[ENT-AGG](#)

[ENT-AGG-PORT](#)

[ENT-ETH-ACL](#)

[ENT-LSWITCH](#)

[ENT-PROF-ETH](#)

[ENT-VLAN-PORT](#)

[INIT-LSWITCH](#)

[REPT ALM ETH](#)

[REPT RMV ETH](#)

[RMV-ETH](#)

[RTRV-AGG](#)

[RTRV-ALM-ETH](#)

[RTRV-ETH](#)

[RTRV-GOS-ETH](#)

[RTRV-LSWITCH](#)
[RTRV-PM-ETH](#)
[RTRV-STAT-ETH](#)
[RTRV-VLAN-PORT](#)

[RTRV-LSWITCH-PORT](#)
[RTRV-PROF-ETH](#)
[RTRV-VLAN](#)
[RTRV-VLAN-VBPORT](#)

Input Format

```
RTRV-AGG-PORT: [ TID ] :<EthAggAid>: [ CTAG ] ;
```

Input Parameters

EthAggAid Link Aggregate Access Identifier. *EthAggAid* is the AID [EthAggAid](#). *EthAggAid* must not be null.

Input Example

```
RTRV-AGG-PORT::N1-1-2-AGG5:321;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<EthAggAid>::[ PLOCN=<PLOCN> ] "
;
```

Output Parameters

EthAggAid Link Aggregate Access Identifier. *EthAggAid* is the AID [EthAggAid](#).

PLOCN Physical Location of the port. This specifies the location of the Link Aggregate port. *PLOCN* is the AID [TwelvePortLuAid](#). *PLOCN* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-1-2-AGG5::PLOCN=N1-2-3-4"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-<OCN>

Name

RTRV-ALM-<[OCN](#)>: Retrieve Alarm (OC12, OC3, OC48)

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with OCn port entities within the C7. The command may be used to retrieve C7 information, which in turn may be used to update an OS database when it is suspected that autonomous alarm messages issued by the C7 using REPT ALM OCn (Report Alarm Optical Carrier Level n) were not received or properly processed. It may also be used to evaluate the system before or after maintenance operations. The alarm conditions to be retrieved can be specified by using the input parameters as the filter, i.e., existing conditions satisfying all the specified input parameters will be reported in the message response.

Defined in GR-833.

Related Messages:

[DLT-<OCN>](#)

[DLT-GOS-<OCN>](#)

[ED-FFP-<OCN>](#)

[ENT-<OCN>](#)

[ENT-GOS-<OCN>](#)

[OPR-LPBK-<OCN>](#)

[REPT ALM <OCN>](#)

[REPT RMV <OCN>](#)

[RLS-LPBK-<OCN>](#)

[RMV-<OCN>](#)

[RTRV-<OCN>](#)

[RTRV-FFP-<OCN>](#)

[RTRV-PM-<OCN>](#)

[DLT-FFP-<OCN>](#)

[ED-<OCN>](#)

[ED-GOS-<OCN>](#)

[ENT-FFP-<OCN>](#)

[INIT-REG-<OCN>](#)

[OPR-PROTNSW-<OCN>](#)

[REPT EVT <OCN>](#)

[REPT RST <OCN>](#)

[RLS-PROTNSW-<OCN>](#)

[RST-<OCN>](#)

[RTRV-COND-<OCN>](#)

[RTRV-GOS-<OCN>](#)

Input Format

```
RTRV-ALM-<OCN>:[TID]:<OcNAid>:[CTAG]:::  
[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],[<LOCN>],[<DIRN>];
```

Input Parameters

OcNAid OCn Port Access Identifier. The address of the OCn port which may have an outstanding alarm. *OcNAid* is the AID [FourPortLuAndRapRngAid](#) and is listable and rangeable. *OcNAid* must not be null.

NTFCNCDE Notification Code. This parameter is used to filter the response based on the notification

code associated with the alarm conditions. *NTFCNCDE* is of type [NotificationRtry](#). A null value is equivalent to "ALL".

CONDTYPE	Condition Type. This parameter is used to filter the response based on the Condition Type of the alarm, where a Condition Type is the type of alarm condition. <i>CONDTYPE</i> is of type CondTypeOcN . A null value is equivalent to "ALL".
SRVEFF	Service Effect. This parameter is used to filter the response based on the Service Effect of the alarm, where Service Effect identifies the effect on service caused by the alarm condition. <i>SRVEFF</i> is of type ServiceEffect . A null value is equivalent to "ALL".
LOCN	Location. This parameter is used to filter the response based on the Location of the alarm. Thus, "near end" refers to alarm conditions occurring at the identified entity, and "far end" refers to alarm conditions occurring at a distant entity that is connected to the identified entity. Likewise, LINE[-x] refers to an intermediate point. <i>LOCN</i> is of type Location . A null value is equivalent to "ALL".
DIRN	DIRectioN. This is the direction of the alarm condition and is relative to the entity identified by the AID. This parameter is currently ignored. <i>DIRN</i> is of type Direction . A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-OC12:SYS1:N3-4-3-1:555::MJ,AIS-L,SA,FEND,BTH;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<OcNAid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>],
[<LOCN>]"
;
```

Output Parameters

OcNAid	OCn Port Access Identifier. The address of the OCn port which has an outstanding alarm. <i>OcNAid</i> is the AID FourPortLuAndRapAid .
AIDTYPE	AID Type. This parameter identifies the type of entity which the alarm is associated with. <i>AIDTYPE</i> is of type AIDType .
NTFCNCDE	Notification Code. This parameter indicates the notification code associated with the alarm condition. <i>NTFCNCDE</i> is of type NotificationRtry .
CONDTYPE	Condition Type. This parameter indicates the type of alarm condition. <i>CONDTYPE</i> is of type CondTypeOcN .
SRVEFF	Service Effect. This parameter identifies the effect on service caused by the alarm condition. <i>SRVEFF</i> is of type ServiceEffect .
OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. <i>OCRDAT</i> is a Date. <i>OCRDAT</i> is optional.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time. <i>OCRTM</i> is optional.

LOCN Location. This parameter identifies the location associated with a particular alarm. *LOCN* is of type [Location](#). *LOCN* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-4-3-1,OC12:MJ,AIS-L,SA,04-03,12-03-34,FEND:"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-<STSN>

Name

RTRV-ALM-<STSN>: Retrieve Alarm (STS1, STS12C, STS3C, STS48C)

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with STS12C path entities within the C7. The command may be used to retrieve C7 information, which in turn may be used to update an OS database when it is suspected that autonomous alarm messages issued by the C7 using REPT ALM STS12C (Report Alarm Synch Transport Signal Level 12C) were not received or properly processed. It may also be used to evaluate the system before or after maintenance operations. The alarm conditions to be retrieved can be specified by using the input parameters as the filter, i.e., existing conditions satisfying all the specified input parameters will be reported in the message response.

Defined in GR-833.

Related Messages:

[DLT-<STSN>](#)
[DLT-GOS-<STSN>](#)
[ED-CRS-<STSN>](#)
[ENT-<STSN>](#)
[ENT-GOS-<STSN>](#)
[OPR-PROTNSW-<STSN>](#)
[REPT EVT <STSN>](#)

[DLT-CRS-<STSN>](#)
[ED-<STSN>](#)
[ED-GOS-<STSN>](#)
[ENT-CRS-<STSN>](#)
[INIT-REG-<STSN>](#)
[REPT ALM <STSN>](#)
[REPT RMV <STSN>](#)

[REPT RST <STSN>](#)
[RMV-<STSN>](#)
[RTRV-<STSN>](#)
[RTRV-CRS-<STSN>](#)
[RTRV-PM-<STSN>](#)

[RLS-PROTNSTW-<STSN>](#)
[RST-<STSN>](#)
[RTRV-COND-<STSN>](#)
[RTRV-GOS-<STSN>](#)

Input Format

```
RTRV-ALM-<STSN>:[TID]:<StsAid>:[CTAG]::  
[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],[<LOCN>],[<DIRN>];
```

Input Parameters

StsAid	STS Path Access Identifier. The address of the STS path which may have an outstanding alarm. <i>StsAid</i> is the AID StsRngAid and is listable and rangeable. <i>StsAid</i> must not be null.
NTFCNCDE	Notification Code. This parameter is used to filter the response based on the notification code associated with the alarm conditions. <i>NTFCNCDE</i> is of type NotificationRtry . A null value is equivalent to "ALL".
CONDTYPE	Condition Type. This parameter is used to filter the response based on the Condition Type of the alarm, where a Condition Type is the type of alarm condition. <i>CONDTYPE</i> is of type CondTypeStsAlm . A null value is equivalent to "ALL".
SRVEFF	Service Effect. This parameter is used to filter the response based on the Service Effect of the alarm, where Service Effect identifies the effect on service caused by the alarm condition. <i>SRVEFF</i> is of type ServiceEffect . A null value is equivalent to "ALL".
LOCN	Location. This parameter is used to filter the response based on the Location of the alarm. Thus, "near end" refers to alarm conditions occurring at the identified entity, and "far end" refers to alarm conditions occurring at a distant entity that is connected to the identified entity. Likewise, LINE[-x] refers to an intermediate point. <i>LOCN</i> is of type Location . A null value is equivalent to "ALL".
DIRN	DIRectioN. This is the direction of the alarm condition and is relative to the entity identified by the AID. This parameter is currently ignored. <i>DIRN</i> is of type Direction . A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-STS12C:SYS1:N2-4-18-1-15:555::CR,LOP-P,SA,FEND,BTH;
```

Output Format

SID DATE TIME
M CTAG COMPLD
"<StsAid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>], [<LOCN>]"
;

Output Parameters

StsAid	STSPath Access Identifier. The address of the STS path which has an outstanding alarm. <i>StsAid</i> is the AID StsAid .
AIDTYPE	Access Identifier Type. This parameter identifies the type of entity which the alarm is associated with. <i>AIDTYPE</i> is of type AIDType .
NTFCNCDE	Notification Code. This parameter indicates the notification code associated with the alarm condition. <i>NTFCNCDE</i> is of type NotificationRtry .
CONDTYPE	Condition Type. This parameter indicates the type of alarm condition. <i>CONDTYPE</i> is of type CondTypeStsAlm .
SRVEFF	Service Effect. This parameter identifies the effect on service caused by the alarm condition. <i>SRVEFF</i> is of type ServiceEffect .
OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. <i>OCRDAT</i> is a Date. <i>OCRDAT</i> is optional.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time. <i>OCRTM</i> is optional.
LOCN	Location. This parameter identifies the location associated with a particular alarm. <i>LOCN</i> is of type Location . <i>LOCN</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N2-4-18-1-15,STS12C:CR,AIS-P,SA,04-03,12-03-34,FEND:
;"
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-ADSL

Name

RTRV-ALM-ADSL: Retrieve Alarm Asymmetric Digital Subscriber Line

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with one or more ADSL ports within the C7. The command may be used to retrieve C7 information,

which in turn may be used to update an OS database when it is suspected that autonomous alarm messages issued by the C7 using REPT ALM ADSL (Report Alarm ADSL) were not received or properly processed. It may also be used to evaluate the system before or after maintenance operations. The alarm conditions to be retrieved can be specified by using the input parameters as the filter, i.e., existing conditions satisfying all the specified input parameters will be reported in the message response.

Extension to RTRV-ALM-rr defined in GR-833.

Related Messages:

[DLT-ADSL](#)

[DLT-TMPLT-ADSL](#)

[ED-GOS-ADSL](#)

[ENT-GOS-ADSL](#)

[INIT-ADSL](#)

[INIT-REG-ADSL](#)

[REPT EVT ADSL](#)

[REPT RST ADSL](#)

[RST-ADSL](#)

[RTRV-COND-ADSL](#)

[RTRV-GOS-ADSL](#)

[RTRV-TMPLT-ADSL](#)

[DLT-GOS-ADSL](#)

[ED-ADSL](#)

[ENT-ADSL](#)

[ENT-TMPLT-ADSL](#)

[INIT-PWR-ADSL](#)

[REPT ALM ADSL](#)

[REPT RMV ADSL](#)

[RMV-ADSL](#)

[RTRV-ADSL](#)

[RTRV-CSTAT-ADSL](#)

[RTRV-PM-ADSL](#)

Input Format

```
RTRV-ALM-
ADSL:[TID]:<AdslAid>:[CTAG]::[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],
[<LOCN>],[<DIRN>];
```

Input Parameters

AdslAid ADSL Port Access Identifier. The address of the ADSL port which may have an outstanding alarm. *AdslAid* is the AID [TwentyFourPortLuRngAid](#) and is listable and rangeable. *AdslAid* must not be null.

NTFCNCDE Notification Code. This parameter is used to filter the response based on the notification code associated with the alarm conditions. *NTFCNCDE* is of type [NotificationRtry](#). A null value is equivalent to "ALL".

CONDTYPE Condition Type. This parameter is used to filter the response based on the condition type of the alarm. Where a condition type is a trouble conditions, irregularity or error conditions respectively. *CONDTYPE* is of type [CondTypeDslAlm](#). A null value is equivalent to "ALL".

SRVEFF SeRVice EFFect. This parameter identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#). A null value is equivalent to "ALL".

LOCN LOCatioN. This parameter identifies the location associated with a particular alarm. This parameter is currently ignored. *LOCN* is of type [Location](#). A null value is equivalent to "ALL".

DIRN DIRectioN. This is the direction of the alarm condition and is relative to the entity

identified by the AID. This parameter is currently ignored. *DIRN* is of type [Direction](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-ADSL:SYS1:N3-4-3-1:CTAG::MN,LOS,SA,FEND,BTH;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<AdslAid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>],
[<LOCN>]"
;"
```

Output Parameters

- AdslAid** ADSL Port Access Identifier. The address of the ADSL port which has an outstanding alarm. *AdslAid* is the AID [TwentyFourPortLuAid](#).
- AIDTYPE** AID Type. This parameter identifies the type of entity which the alarm is associated with. *AIDTYPE* is of type [AIDType](#).
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the alarm condition. *NTFCNCDE* is of type [NotificationRtry](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type of the alarm. Where a condition type is a trouble conditions, irregularity or error conditions respectively. *CONDTYPE* is of type [CondTypeDslAlm](#).
- SRVEFF** Service Effect. This parameter identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.
- LOCN** Location. This parameter identifies the location associated with a particular alarm. *LOCN* is of type [Location](#). *LOCN* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-4-3-1,ADSL:CR,LOS,SA,04-03,12-03-34,FEND"
;"
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-ALL

Name

RTRV-ALM-ALL: Retrieve Alarm All

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with one or more entities within the C7. The command may be used to retrieve C7 information, which in turn may be used to update an OS database when it is suspected that autonomous alarm messages issued by the C7 using REPT ALM XXX (Report Alarm XXX where XXX is any entity in the system) were not received or properly processed. It may also be used to evaluate the system before or after maintenance operations. The alarm conditions to be retrieved can be specified by using the input parameters as the filter, i.e., existing conditions satisfying all the specified input parameters will be reported in the message response.

Defined in GR-833.

Related Messages:

[ALW-MSG-ALL](#)

[INH-MSG-ALL](#)

[OPR-ACO](#)

[RTRV-ACO](#)

[RTRV-COND-ACO](#)

[SET-ACO](#)

Input Format

```
RTRV-ALM-
ALL:[TID]:<AllAlarmAid>:[CTAG]::[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],
[<LOCN>],;
```

Input Parameters

AllAlarmAid All Access Identifier. The address of any entity within the system which may have an outstanding alarm. *AllAlarmAid* is the AID [AllAlarmAid](#) and is listable and rangeable. *AllAlarmAid* must not be null.

NTFCNCDE Notification Code. This parameter is used to filter the response based on the notification code associated with the alarm conditions. *NTFCNCDE* is of type [NotificationRtry](#). A null value is equivalent to "ALL".

CONDTYPE Condition Type. This parameter is used to filter the response based on the Condition Type of the alarm, where a Condition Type is the type of alarm condition. *CONDTYPE* is of type [CondTypeAll](#). A null value is equivalent to "ALL".

SRVEFF	Service Effect. This parameter is used to filter the response based on the Service Effect of the alarm, where Service Effect identifies the effect on service caused by the alarm condition. <i>SRVEFF</i> is of type ServiceEffect . A null value is equivalent to "ALL".
LOCN	Location. This parameter is used to filter the response based on the Location of the alarm. Thus, "near end" refers to alarm conditions occurring at the identified entity, and "far end" refers to alarm conditions occurring at a distant entity that is connected to the identified entity. Likewise, LINE[-x] refers to an intermediate point. <i>LOCN</i> is of type LocationAll . A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-ALL:SYS3:N3-4-ALL:123::CR,EQPT,SA,FEND,;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD

"<AllAlarmAid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],
[<OCRTM>],[<LOCN>],:,,[<OBSDBHVR>]"
;
```

Output Parameters

AllAlarmAid	All Access Identifier. The address of any entity within the system which has an outstanding alarm. <i>AllAlarmAid</i> is the AID AllAlarmAid .
AIDTYPE	AID Type. This parameter identifies the type of entity which the alarm is associated with. <i>AIDTYPE</i> is of type AIDType .
NTFCNCDE	Notification Code. This parameter indicates the notification code associated with the alarm condition. <i>NTFCNCDE</i> is of type NotificationRtry .
CONDTYPE	Condition Type. This parameter indicates the type of alarm condition. <i>CONDTYPE</i> is of type CondTypeAll .
SRVEFF	Service Effect. This parameter identifies the effect on service caused by the alarm condition. <i>SRVEFF</i> is of type ServiceEffect .
OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. <i>OCRDAT</i> is a Date. <i>OCRDAT</i> is optional.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time. <i>OCRTM</i> is optional.
LOCN	Location. This parameter indicates the location of the alarmed entity. Thus, "near end" refers to alarm conditions occurring at the identified entity, and "far end" refers to alarm conditions occurring at a distant entity that is connected to the identified entity. Likewise, LINE[-x] refers to an intermediate point. <i>LOCN</i> is of type LocationAll . <i>LOCN</i> is optional.
OBSDBHVR	Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. <i>OBSDBHVR</i> is a String. <i>OBSDBHVR</i> is optional.

Output Example

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-4-5, EQPT:CR, EQPT, SA, 04-1, 12-00-00, FEND, :, , \"ERROR
0x12345678\""
;

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-AP

Name

RTRV-ALM-AP: Retrieve Alarm ATM Resource Port

Description

Category: Fault **Security:** Maintenance - read

No Comment Defined.

Related Messages:

[DLT-AP](#)

[DLT-AP-T1](#)

[DLT-GOS-AP](#)

[DLT-GOS-IMA](#)

[DLT-GOS-IMALINK](#)

[DLT-IMA](#)

[DLT-IMA-PORT](#)

[ED-AP](#)

[ED-GOS-AP](#)

[ED-GOS-IMA](#)

[ED-GOS-IMALINK](#)

[ED-IMA](#)

[ENT-AP](#)

[ENT-AP-T1](#)

[ENT-GOS-AP](#)

[ENT-GOS-IMA](#)

[ENT-GOS-IMALINK](#)

[ENT-IMA](#)

[ENT-IMA-PORT](#)

[INIT-REG-AP](#)

[INIT-REG-IMA](#)

[INIT-REG-IMALINK](#)

[REPT ALM AP](#)

[REPT ALM IMA](#)

[REPT ALM IMALINK](#)

[REPT EVT AP](#)

[REPT EVT IMA](#)

[REPT EVT IMALINK](#)

[REPT RMV AP](#)

[REPT RST AP](#)

[RMV-AP](#)

[RMV-IMA](#)

[RST-AP](#)

[RST-IMA](#)

[RTRV-ALM-IMA](#)

[RTRV-ALM-IMALINK](#)

[RTRV-AP](#)
[RTRV-COND-IMA](#)
[RTRV-GOS-IMA](#)
[RTRV-IMA](#)
[RTRV-PM-IMA](#)

[RTRV-COND-AP](#)
[RTRV-GOS-AP](#)
[RTRV-GOS-IMALINK](#)
[RTRV-PM-AP](#)
[RTRV-PM-IMALINK](#)

Input Format

```
RTRV-ALM-
AP:[TID]:<ApAid>:[CTAG]::[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>];
```

Input Parameters

ApAid *ApAid* is the AID [ApId](#) and is listable and rangeable. *ApAid* must not be null.

NTFCNCDE *NTFCNCDE* is of type [NotificationRtrv](#). A null value is equivalent to "ALL".

CONDTYPE *CONDTYPE* is of type [CondTypeAp](#). A null value is equivalent to "ALL".

SRVEFF *SRVEFF* is of type [ServiceEffect](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-AP:SYS1:N3-4-2-AP1:555::CR,LCD,SA;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD

"<ApAid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>],
[<LOCN>]"
;
```

Output Parameters

ApAid *ApAid* is the AID [AtmRscPortAid](#).

AIDTYPE *AIDTYPE* is of type [AIDType](#).

NTFCNCDE *NTFCNCDE* is of type [NotificationRtrv](#).

CONDTYPE *CONDTYPE* is of type [CondTypeAp](#).

SRVEFF *SRVEFF* is of type [ServiceEffect](#).

OCRDAT *OCRDAT* is a Date. *OCRDAT* is optional.

OCRTM *OCRTM* is a Time. *OCRTM* is optional.

LOCN *LOCN* is of type [Location](#). *LOCN* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-4-2-AP1,AP:CR,LCD,SA,04-03,12-03-34,FEND:"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-AVO

Name

RTRV-ALM-AVO: Retrieve Alarm Analog Video Overlay

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with one or more AVO ports within the C7. The command may be used to retrieve C7 information, which in turn may be used to update an OS database when it is suspected that autonomous alarm messages issued by the C7 using REPT ALM AVO (Report Alarm AVO) were not received or properly processed. It may also be used to evaluate the system before or after maintenance operations. The alarm conditions to be retrieved can be specified by using the input parameters as the filter, i.e., existing conditions satisfying all the specified input parameters will be reported in the message response.

Extension to RTRV-ALM-rr defined in GR-833.

Related Messages:

[DLT-AVO](#)
[DLT-IG-VDS1](#)
[DLT-PROF-ONT](#)
[DLT-VCG](#)
[ED-AVO](#)
[ED-ONT](#)
[ED-RFVID](#)
[ED-VRP](#)
[ENT-GOS-ONT](#)
[ENT-ONT](#)
[ENT-RFVID](#)
[ENT-VRP](#)
[INIT-REG-ONT](#)

[DLT-GOS-ONT](#)
[DLT-ONT](#)
[DLT-RFVID](#)
[DLT-VRP](#)
[ED-GOS-ONT](#)
[ED-PROF-ONT](#)
[ED-VCG](#)
[ENT-AVO](#)
[ENT-IG-VDS1](#)
[ENT-PROF-ONT](#)
[ENT-VCG](#)
[INIT-ONT-UA](#)
[REPT ALM AVO](#)

REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV ONT	REPT RMV RFVID
REPT RST AVO	REPT RST ONT
REPT RST RFVID	RMV-AVO
RMV-ONT	RMV-RFVID
RST-AVO	RST-ONT
RST-RFVID	RTRV-ALM-ONT
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
RTRV-ALM-
AVO : [ TID ] : <OntPortAid> : [ CTAG ] : : [ <NTFCNCDE> ] , [ <CONDTYPE> ] , [ <SRVEFF> ] ;
```

Input Parameters

- OntPortAid** AVO Port Access Identifier. The address of the AVO port which may have an outstanding alarm. *OntPortAid* is the AID [OntPortRngAid](#) and is listable and rangeable. *OntPortAid* must not be null.
- NTFCNCDE** Notification Code. This parameter is used to filter the response based on the notification code associated with the alarm conditions. *NTFCNCDE* is of type [NotificationAlm](#). A null value is equivalent to "ALL".
- CONDTYPE** Condition Type. This parameter is used to filter the response based on the condition type of the alarm. Where a condition type is a trouble conditions, irregularity or error conditions respectively. *CONDTYPE* is of type [CondTypeAvo](#). A null value is equivalent to "ALL".
- SRVEFF** SeRvice EFFect. This parameter identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-AVO:SYS:N2-4-3-1-23-1:123::MN,LOS,SA;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<OntPortAid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],
[<OCRTM>]"
;
```

Output Parameters

- OntPortAid** AVO Port Access Identifier. The address of the AVO port which has an outstanding alarm. *OntPortAid* is the AID [OntPortAid](#).
- AIDTYPE** AID Type. This parameter identifies the type of entity which the alarm is associated with. *AIDTYPE* is of type [AIDType](#).
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the alarm condition. *NTFCNCDE* is of type [NotificationAlm](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type of the alarm. Where a condition type is a trouble conditions, irregularity or error conditions respectively. *CONDTYPE* is of type [CondTypeAvo](#).
- SRVEFF** Service Effect. This parameter identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N2-4-3-1-23-1,AVO:MN,LOS,SA,04-03,12-03-34"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-BWCLINK

Name

RTRV-ALM-BWCLINK: Retrieve Alarm Link Bandwidth Constraint

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with one or more Link Bandwidth Constraints within the C7. The command may be used to retrieve C7 information, which in turn may be used to update an OS database when it is suspected that autonomous alarm messages issued by the C7 using REPT ALM BWCLINK (Report Alarm BWCLINK) were not received or properly processed. It may also be used to evaluate the system before or after maintenance operations. The alarm conditions to be retrieved can be specified by using the input parameters as the filter, i.e., existing conditions satisfying all the specified input parameters will be reported in the message response.

Extension to RTRV-ALM-rr defined in GR-833.

Input Format

```
RTRV-ALM-
BWCLINK: [ TID ] :<LinkBwcAid>: [ CTAG ] :: [ <NTFCNCDE> ] , [ <CONDTYPE> ] ,
[ <SRVEFF> ] ;
```

Input Parameters

- LinkBwcAid** Access Identifier. The address of the Link Bandwidth Constraint which may have an outstanding alarm. *LinkBwcAid* is the AID [LinkBwcRngAid](#) and is listable and rangeable. *LinkBwcAid* must not be null.
- NTFCNCDE** Notification Code. This parameter is used to filter the response based on the notification code associated with the alarm conditions. *NTFCNCDE* is of type [NotificationRtry](#). A null value is equivalent to "ALL".
- CONDTYPE** Condition Type. This parameter is used to filter the response based on the Condition Type of the alarm, where a Condition Type is the type of alarm condition. *CONDTYPE* is of type [CondTypeBwcLink](#). A null value is equivalent to "ALL".
- SRVEFF** Service Effect. This parameter is used to filter the response based on the Service Effect of the alarm, where Service Effect identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-BWCLINK:SYS1:N2-4-18-1-BWC1:555::MN,FEMM,NSA;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<LinkBwcAid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],
[<OCRTM>]"
;"
```

Output Parameters

- LinkBwcAid** Access Identifier. The address of the Link Bandwidth Constraint which has an outstanding alarm. *LinkBwcAid* is the AID [LinkBwcAid](#).
- AIDTYPE** AID Type. This parameter identifies the type of entity which the alarm is associated with. *AIDTYPE* is of type [AIDType](#).
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the alarm condition. *NTFCNCDE* is of type [NotificationRtry](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type of the alarm. Where a condition type is a trouble conditions, irregularity or error conditions respectively. *CONDTYPE* is of type [CondTypeBwcLink](#).
- SRVEFF** Service Effect. This parameter identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N2-4-18-1-BWC1,BWCLINK:MN,FEMM,NSA,04-03,12-03-34:"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-EC1

Name

RTRV-ALM-EC1: Retrieve Alarm EC1

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with one or more EC1 ports within the C7. The command may be used to retrieve C7 information, which in turn may be used to update an OS database when it is suspected that autonomous alarm messages issued by the C7 using REPT ALM EC1 (Report Alarm EC1) were not received or properly processed. It may

also be used to evaluate the system before or after maintenance operations. The alarm conditions to be retrieved can be specified by using the input parameters as the filter, i.e., existing conditions satisfying all the specified input parameters will be reported in the message response.

Extension to RTRV-ALM-rr defined in GR-833.

Related Messages:

[DLT-EC1](#)
[ED-EC1](#)
[ENT-EC1](#)
[INIT-REG-EC1](#)
[REPT ALM EC1](#)
[REPT RMV EC1](#)
[RLS-LPBK-EC1](#)
[RST-EC1](#)
[RTRV-EC1](#)
[RTRV-PM-EC1](#)

[DLT-GOS-EC1](#)
[ED-GOS-EC1](#)
[ENT-GOS-EC1](#)
[OPR-LPBK-EC1](#)
[REPT EVT EC1](#)
[REPT RST EC1](#)
[RMV-EC1](#)
[RTRV-COND-EC1](#)
[RTRV-GOS-EC1](#)

Input Format

```
RTRV-ALM-
EC1:[TID]:<Ec1Aid>:[CTAG]::[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],
[<LOCN>],[<DIRN>];
```

Input Parameters

- Ec1Aid** Access Identifier. The address of the EC1 port which may have an outstanding alarm. *Ec1Aid* is the AID [TwelvePortLuRngAid](#) and is listable and rangeable. *Ec1Aid* must not be null.
- NTFCNCDE** Notification Code. This parameter is used to filter the response based on the notification code associated with the alarm conditions. *NTFCNCDE* is of type [NotificationRtry](#). A null value is equivalent to "ALL".
- CONDTYPE** Condition Type. This parameter is used to filter the response based on the Condition Type of the alarm, where a Condition Type is the type of alarm condition. *CONDTYPE* is of type [CondTypeOcN](#). A null value is equivalent to "ALL".
- SRVEFF** Service Effect. This parameter is used to filter the response based on the Service Effect of the alarm, where Service Effect identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#). A null value is equivalent to "ALL".
- LOCN** Location. This parameter is used to filter the response based on the Location of the alarm. Thus, "near end" refers to alarm conditions occurring at the identified entity, and "far end" refers to alarm conditions occurring at a distant entity that is connected to the identified entity. Likewise, LINE[-x] refers to an intermediate point. *LOCN* is of type [Location](#). A null value is equivalent to "ALL".
- DIRN** DIRectioN. This is the direction of the alarm condition and is relative to the entity identified by the AID. This parameter is currently ignored. *DIRN* is of type [Direction](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-EC1:SYS1:N3-4-3-1:555::MJ,AIS-L,SA,FEND,BTH;
```

Output Format

```
    SID DATE TIME
M  CTAG COMPLD
"<Ec1Aid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>],
[<LOCN>]"
;
```

Output Parameters

- Ec1Aid** Access Identifier. The address of the EC1 port which has an outstanding alarm. *Ec1Aid* is the AID [TwelvePortLuAid](#).
- AIDTYPE** AID Type. This parameter identifies the type of entity which the alarm is associated with. *AIDTYPE* is of type [AIDType](#).
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the alarm condition. *NTFCNCDE* is of type [NotificationRtry](#).
- CONDTYPE** Condition Type. This parameter identifies the condition type of the alarm. Where a condition type is a trouble conditions, irregularity or error conditions respectively. *CONDTYPE* is of type [CondTypeOcN](#).
- SRVEFF** Service Effect. This parameter identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.
- LOCN** Location. This parameter identifies the location associated with a particular alarm. *LOCN* is of type [Location](#). *LOCN* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-4-3-1,EC1:MJ,AIS-L,SA,04-03,12-03-34,FEND:"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-ENV

Name

RTRV-ALM-ENV: Retrieve Alarm Environment

Description

Category: Fault **Security:** Maintenance - read

This command requests that a C7 retrieve the specified, outstanding environmental alarms. The command can be used to retrieve the C7 information, which in turn may be used to update an OS environmental alarm database, if it is suspected that autonomous alarms message issued using the REPT ALM ENV (Report Alarm Environment) were not received or properly processed.

Defined in GR-833.

Related Messages:

[OPR-EXT-CONT](#)

[REPT ALM ENV](#)

[REPT EVT CONT](#)

[RLS-EXT-CONT](#)

[RTRV-ATTR-CONT](#)

[RTRV-ATTR-ENV](#)

[RTRV-COND-ENV](#)

[RTRV-EXT-CONT](#)

[SET-ATTR-CONT](#)

[SET-ATTR-ENV](#)

Input Format

```
RTRV-ALM-ENV : [ TID ] : <EnvAid> : [ CTAG ] : : [ <NTFCNCDE> ] , [ <ALMTYPE> ] ;
```

Input Parameters

EnvAid Environmental Access Identifier. The address of the environmental input contact within the system which may have an outstanding alarm. *EnvAid* is the AID [EnvRngAid](#) and is listable and rangeable. *EnvAid* must not be null.

NTFCNCDE Notification Code. This parameter is used to filter the response based on the notification code associated with the alarm conditions. *NTFCNCDE* is of type [NotificationRtry](#). A null value is equivalent to "ALL".

ALMTYPE Alarm Type. This parameter is used to filter the response based on the alarm type. *ALMTYPE* is of type [CondTypeEnvAlm](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-ENV : SYS1 : N3-ENV2 : CTAG : : CR , ENGINE ;
```

Output Format

	SID	DATE	TIME
M	CTAG	COMPLD	

```
"<EnvAid>:<NTFCNCDE>,<ALMTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>],[<ALMMSG>]"
;
```

Output Parameters

- EnvAid** Environmental Access Identifier. The address of the environmental input contact within the system which may have an outstanding alarm. *EnvAid* is the AID [EnvAid](#).
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the alarm condition. *NTFCNCDE* is of type [NotificationRtry](#).
- ALMTYPE** Alarm Type. This parameter indicates the type of alarm condition. *ALMTYPE* is of type [CondTypeEnvAlm](#).
- SRVEFF** Service Effect. This parameter identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.
- ALMMSG** Alarm Message. This parameter is a textual description of the alarm type. *ALMMSG* is a String. *ALMMSG* is optional.

Output Example

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-ENV2:CR,ENGINE,SA,04-03,12-03-34, \"ENGINE FAILURE\" "
;

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-EQPT

Name

RTRV-ALM-EQPT: Retrieve Alarm Equipment

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with one or more plug-in cards within the C7. The command may be used to retrieve C7 information, which in turn may be used to update an OS database when it is suspected that autonomous alarm messages issued by the C7 using REPT ALM EQPT (Report Alarm EQPT) were not received or properly processed. It may also be used to evaluate the system before or after maintenance operations. The alarm conditions to be retrieved can be specified by using the input parameters as the filter, i.e., existing conditions satisfying all the specified input parameters will be reported in the message response.

Extension to RTRV-ALM-rr defined in GR-833.

Related Messages:

[ALW-Swdx-EQPT](#)
[ALW-SWTOWKG-EQPT](#)
[ED-EQPT](#)
[INH-Swdx-EQPT](#)
[INH-SWTOWKG-EQPT](#)
[REPT EVT EQPT](#)
[REPT RST EQPT](#)
[RST-EQPT](#)
[RTRV-EQPT](#)
[SW-TOPROTN-EQPT](#)

[ALW-SWTOPROTN-EQPT](#)
[DLT-EQPT](#)
[ENT-EQPT](#)
[INH-SWTOPROTN-EQPT](#)
[REPT ALM EQPT](#)
[REPT RMV EQPT](#)
[RMV-EQPT](#)
[RTRV-COND-EQPT](#)
[SW-DX-EQPT](#)
[SW-TOWKG-EQPT](#)

Input Format

```
RTRV-ALM-
EQPT:[TID]:<EqptAid>:[CTAG]::[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],,;
```

Input Parameters

- EqptAid** Equipment Access Identifier. The address of the equipment which may have an outstanding alarm. *EqptAid* is the AID [EquipmentId1](#) and is listable and rangeable. *EqptAid* must not be null.
- NTFCNCDE** Notification Code. This parameter is used to filter the response based on the notification code associated with the alarm conditions. *NTFCNCDE* is of type [NotificationRtry](#). A null value is equivalent to "ALL".
- CONDTYPE** Condition Type. This parameter is used to filter the response based on the Condition Type of the alarm, where a Condition Type is the type of alarm condition. *CONDTYPE* is of type [CondTypeEqpt](#). A null value is equivalent to "ALL".
- SRVEFF** Service Effect. This parameter is used to filter the response based on the Service Effect of the alarm, where Service Effect identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-EQPT:SYS1:N3-4-3:555::CR,PWR,SA,,;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<EqptAid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>],,:,
,,[<OBSDBHVR>]"
;

```

Output Parameters

- EqptAid** Equipment Access Identifier. The address of the equipment which has an outstanding alarm. *EqptAid* is the AID [EquipmentId](#).
- AIDTYPE** AID Type. This parameter identifies the type of entity which the alarm is associated with. *AIDTYPE* is of type [AIDType](#).
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the alarm condition. *NTFCNCDE* is of type [NotificationRtry](#).
- CONDTYPE** Condition Type. This parameter indicates the type of alarm condition. *CONDTYPE* is of type [CondTypeAll](#).
- SRVEFF** Service Effect. This parameter identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.
- OBSDBHVR** Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. *OBSDBHVR* is a String. *OBSDBHVR* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-4-5,EQPT:CR,EQPT,SA,04-01,12-00-00,,:,,"ERROR
0X12345678\""
;
```

Errors

This message generates all of the [Default Errors](#).

Name

RTRV-ALM-ETH: Retrieve Alarm ETH

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with one or more ETH ports within the C7. The command may be used to retrieve C7 information, which in turn may be used to update an OS database when it is suspected that autonomous alarm messages issued by the C7 using REPT ALM ETH (Report Alarm ETH) were not received or properly processed. It may also be used to evaluate the system before or after maintenance operations. The alarm conditions to be retrieved can be specified by using the input parameters as the filter, i.e., existing conditions satisfying all the specified input parameters will be reported in the message response.

Extension to RTRV-ALM-rr defined in GR-833.

Related Messages:

[DLT-AGG](#)

[DLT-AGG-PORT](#)

[DLT-ETH-ACL](#)

[DLT-LSWITCH](#)

[DLT-PROF-ETH](#)

[DLT-VLAN-PORT](#)

[ED-ETH](#)

[ED-VLAN](#)

[ED-VLAN-VBPORT](#)

[ENT-AGG-ACL](#)

[ENT-ETH](#)

[ENT-GOS-ETH](#)

[ENT-LSWITCH-PORT](#)

[ENT-VLAN](#)

[ENT-VLAN-VBPORT](#)

[INIT-STAT-ETH](#)

[REPT EVT ETH](#)

[REPT RST ETH](#)

[RST-ETH](#)

[RTRV-AGG-ACL](#)

[RTRV-COND-ETH](#)

[RTRV-ETH-ACL](#)

[RTRV-LSWITCH](#)

[RTRV-PM-ETH](#)

[RTRV-STAT-ETH](#)

[RTRV-VLAN-PORT](#)

[DLT-AGG-ACL](#)

[DLT-ETH](#)

[DLT-GOS-ETH](#)

[DLT-LSWITCH-PORT](#)

[DLT-VLAN](#)

[DLT-VLAN-VBPORT](#)

[ED-GOS-ETH](#)

[ED-VLAN-PORT](#)

[ENT-AGG](#)

[ENT-AGG-PORT](#)

[ENT-ETH-ACL](#)

[ENT-LSWITCH](#)

[ENT-PROF-ETH](#)

[ENT-VLAN-PORT](#)

[INIT-LSWITCH](#)

[REPT ALM ETH](#)

[REPT RMV ETH](#)

[RMV-ETH](#)

[RTRV-AGG](#)

[RTRV-AGG-PORT](#)

[RTRV-ETH](#)

[RTRV-GOS-ETH](#)

[RTRV-LSWITCH-PORT](#)

[RTRV-PROF-ETH](#)

[RTRV-VLAN](#)

[RTRV-VLAN-VBPORT](#)

Input Format

```
RTRV-ALM-
ETH:[ TID ]:<EthAid>:[ CTAG ]::[ <NTFCNCDE> ], [ <CONDTYPE> ], [ <SRVEFF> ];
```

Input Parameters

- EthAid** Ethernet Access Identifier. *EthAid* is the AID [TwelvePortLuRngAid](#) and is listable and rangeable. *EthAid* must not be null.
- NTFCNCDE** Notification Code. This parameter identifies the notification code of the event that caused the condition to be reported. *NTFCNCDE* is of type [NotificationRtry](#). A null value is equivalent to "ALL".
- CONDTYPE** Condition Type. This parameter is used to filter the response based on the Condition Type of the alarm, where a Condition Type is the type of alarm condition. *CONDTYPE* is of type [CondTypeEth](#). A null value is equivalent to "ALL".
- SRVEFF** Service Effect. This parameter is used to filter the response based on the Service Effect of the alarm, where Service Effect identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-ETH:SYS1:N3-4-2-1:555::MJ,AIS-L,SA;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<EthAid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>],
[<LOCN>]"
;
```

Output Parameters

- EthAid** Ethernet Access Identifier. *EthAid* is the AID [TwelvePortLuAid](#).
- AIDTYPE** AID Type. This parameter identifies the type of entity which the alarm is associated with. *AIDTYPE* is of type [AIDType](#).
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the alarm condition. *NTFCNCDE* is of type [NotificationRtry](#).
- CONDTYPE** Condition Type. This parameter indicates the type of alarm condition. *CONDTYPE* is of type [CondTypeEth](#).
- SRVEFF** Service Effecting. This parameter identifies if the alarm condition has an effect on service. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred.

Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.

LOCN Location. This parameter identifies the location associated with a particular alarm. *LOCN* is of type [Location](#). *LOCN* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-4-2-1,ETH:MJ,AIS-L,SA,04-03,12-03-34,FEND:"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-GR303

Name

RTRV-ALM-GR303: Retrieve Alarm GR303

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with one or more EOC/TMC Datalink entities within the C7. The command may be used to retrieve C7 information, which in turn may be used to update an OS database when it is suspected that autonomous alarm messages issued by the C7 using REPT ALM GR303 (Report Alarm GR303) were not received or properly processed. It may also be used to evaluate the system before or after maintenance operations. The alarm conditions to be retrieved can be specified by using the input parameters as the filter, i.e., existing conditions satisfying all the specified input parameters will be reported in the message response.

Extension to RTRV-ALM-rr defined in GR-833.

Related Messages:

[ALW-SWDX-GR303](#)
[DLT-CRS-T0](#)
[DLT-GR8](#)
[DLT-T1TG](#)
[ED-GR8](#)
[ENT-GR303](#)
[ENT-IG-DS1](#)

[ALW-SWDX-T1TG](#)
[DLT-GR303](#)
[DLT-IG-DS1](#)
[ED-GR303](#)
[ENT-CRS-T0](#)
[ENT-GR8](#)
[ENT-T1TG](#)

[INH-SWDX-GR303](#)
[REPT ALM GR303](#)
[REPT EVT GR303](#)
[REPT SW GR303](#)
[RTRV-ALM-T1TG](#)
[RTRV-COND-T1TG](#)
[RTRV-DLSTAT-GR303](#)
[RTRV-GR303](#)
[RTRV-IG-DS1](#)
[SW-DX-GR303](#)

[INH-SWDX-T1TG](#)
[REPT ALM T1TG](#)
[REPT EVT T1TG](#)
[REPT SW T1TG](#)
[RTRV-COND-GR303](#)
[RTRV-CRS-T0](#)
[RTRV-DLSTAT-T1TG](#)
[RTRV-GR8](#)
[RTRV-T1TG](#)
[SW-DX-T1TG](#)

Input Format

```
RTRV-ALM-
GR303:[TID]:<DataLinkSwAid>:[CTAG]::[<NTFCNCDE>],[<CONDTYPE>],
[<SRVEFF>];
```

Input Parameters

DataLinkSwAid	GR303 Data Link Access Identifier. The address of the GR303 EOC/TMC data links which may have an outstanding alarm. <i>DataLinkSwAid</i> is the AID IgLinkSwRngAid and is listable and rangeable. <i>DataLinkSwAid</i> must not be null.
NTFCNCDE	Notification Code. This parameter is used to filter the response based on the notification code associated with the alarm conditions. <i>NTFCNCDE</i> is of type NotificationRtry . A null value is equivalent to "ALL".
CONDTYPE	Condition Type. This parameter is used to filter the response based on the Condition Type of the alarm, where a Condition Type is the type of alarm condition. <i>CONDTYPE</i> is of type CondTypeIg . A null value is equivalent to "ALL".
SRVEFF	Service Effect. This parameter is used to filter the response based on the effect on service associated with the alarm condition. <i>SRVEFF</i> is of type ServiceEffect . A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-GR303:SYS1:N3-4-IG4-EOC:555::CR,EOCDUPLEX,SA;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD

"<DataLinkSwAid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],
[<OCRTM>],,<OBSDBHVR>"
```

Output Parameters

DataLinkSwAid	GR303 Data Links Access Identifier. The address of the GR-303 EOC/TMC data link which has an outstanding alarm. <i>DataLinkSwAid</i> is the AID IgLinkSwAid .
AIDTYPE	AID Type. This parameter identifies the type of entity which the alarm is associated with. <i>AIDTYPE</i> is of type AIDType .
NTFCNCDE	Notification Code. This parameter indicates the notification code associated with the alarm condition. <i>NTFCNCDE</i> is of type NotificationRtrv .
CONDTYPE	Condition Type. This parameter indicates the type of alarm condition. <i>CONDTYPE</i> is of type CondTypeIg .
SRVEFF	Service Effect. This parameter identifies the effect on service caused by the alarm condition. <i>SRVEFF</i> is of type ServiceEffect .
OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. <i>OCRDAT</i> is a Date. <i>OCRDAT</i> is optional.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time. <i>OCRTM</i> is optional.
OBSDBHVR	Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. <i>OBSDBHVR</i> is a String.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-4-IG4-EOC,GR303:CR,EOCDUPLEX,SA,04-03,12-03-34:,,\ "ERROR
0X12345678\" "
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-H248

Name

RTRV-ALM-H248: Retrieve Alarm H248

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with H248 entities within the C7. The command may be used to retrieve C7 information, which in turn may be used to update an OS database when it is suspected that autonomous alarm messages issued by the

C7 using REPT ALM PP (Report Alarm Pseudo-Port) were not received or properly processed. It may also be used to evaluate the system before or after maintenance operations. The alarm conditions to be retrieved can be specified by using the input parameters as the filter, i.e., existing conditions satisfying all the specified input parameters will be reported in the message response.

Defined in GR-833.

Related Messages:

[DLT-H248](#)

[DLT-VSP](#)

[ED-VSP](#)

[ENT-IG-VSP](#)

[REPT ALM H248](#)

[RTRV-H248](#)

[RTRV-VSP](#)

[DLT-IG-VSP](#)

[ED-H248](#)

[ENT-H248](#)

[ENT-VSP](#)

[RTRV-COND-H248](#)

[RTRV-IG-VSP](#)

Input Format

```
RTRV-ALM-
H248:[TID]:<IgAid>:[CTAG]::[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>];
```

Input Parameters

IgAid The target H248 IG(s). *IgAid* is the AID [IgRngAid](#) and is listable and rangeable. *IgAid* must not be null.

NTFCNCDE Notification Code. This parameter is used to filter the response based on the notification code associated with the alarm conditions. *NTFCNCDE* is of type [NotificationAlm](#). A null value is equivalent to "ALL".

CONDTYPE Condition Type. This parameter is used to filter the response based on the Condition Type of the alarm, where a Condition Type is the type of alarm condition. *CONDTYPE* is of type [CondTypeH248](#). A null value is equivalent to "ALL".

SRVEFF Service Effect. This parameter is used to filter the response based on the Service Effect of the alarm, where Service Effect identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-H248:SYS:N3-1-IG2:123::MJ,CALLPROCLU,SA;
```

Output Format

SID	DATE	TIME
M	CTAG	COMPLD

```
"<IgAid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>]"
;"
```

Output Parameters

IgAid	The AID of the H248 IG. <i>IgAid</i> is the AID IgAid .
AIDTYPE	AID Type. This parameter identifies the type of entity which the alarm is associated with. <i>AIDTYPE</i> is of type AIDType .
NTFCNCDE	Notification Code. This parameter indicates the notification code associated with the alarm condition. <i>NTFCNCDE</i> is of type NotificationAlm .
CONDTYPE	Condition Type. This parameter indicates the type of alarm condition. <i>CONDTYPE</i> is of type CondTypeH248 .
SRVEFF	Service Effect. This parameter identifies the effect on service caused by the alarm condition. <i>SRVEFF</i> is of type ServiceEffect .
OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. <i>OCRDAT</i> is a Date. <i>OCRDAT</i> is optional.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time. <i>OCRTM</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "N3-1-IG2,H248:MJ,CALLPROCLU,SA,3-22,14-36-12"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-HDSL

Name

RTRV-ALM-HDSL: Retrieve Alarm High bit rate Digital Subscriber Line

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with HDSL facility entities within the C7. The command may be used to retrieve C7 information, which in turn may be used to update an OS database when it is suspected that autonomous alarm messages issued by the C7 using REPT ALM HDSL were not received or properly processed. It may also be used to evaluate the system before or after maintenance operations. The alarm conditions to be retrieved can be

specified by using the input parameters as the filter, i.e., existing conditions satisfying all the specified input parameters will be reported in the message response.

Defined in GR-833.

Related Messages:

DLT-GOS-HDSL	DLT-HDSL
ED-GOS-HDSL	ED-HDSL
ENT-GOS-HDSL	ENT-HDSL
INIT-HDSL	INIT-REG-HDSL
OPR-LPBK-HDSL	REPT ALM HDSL
REPT EVT HDSL	REPT RMV HDSL
REPT RST HDSL	RLS-LPBK-HDSL
RMV-HDSL	RST-HDSL
RTRV-COND-HDSL	RTRV-CSTAT-HDSL
RTRV-GOS-HDSL	RTRV-HDSL
RTRV-HTU	RTRV-PM-HDSL

Input Format

```
RTRV-ALM-
HDSL:[TID]:<HdslAid>:[CTAG]::[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],
[<LOCN>],[<DIRN>];
```

Input Parameters

HdslAid	HDSL Port Access Identifier. The address of the HDSL port which may have an outstanding alarm. <i>HdslAid</i> is the AID SixPortLuRngAid and is listable and rangeable. <i>HdslAid</i> must not be null.
NTFCNCDE	Notification Code. This parameter is used to filter the response based on the notification code associated with the alarm conditions. <i>NTFCNCDE</i> is of type NotificationRtry . A null value is equivalent to "ALL".
CONDTYPE	Condition Type. This parameter is used to filter the response based on the Condition Type of the alarm, where a Condition Type is the type of alarm condition. <i>CONDTYPE</i> is of type CondTypeHds . A null value is equivalent to "ALL".
SRVEFF	Service Effect. This parameter is used to filter the response based on the Service Effect of the alarm, where Service Effect identifies the effect on service caused by the alarm condition. <i>SRVEFF</i> is of type ServiceEffect . A null value is equivalent to "ALL".
LOCN	LOCatioN. This parameter identifies the location associated with a particular alarm. This parameter is currently ignored. <i>LOCN</i> is of type LocationAll . A null value is equivalent to "ALL".
DIRN	DIRectioN. This is the direction of the alarm condition and is relative to the entity identified by the AID. This parameter is currently ignored. <i>DIRN</i> is of type Direction . A null value is equivalent to "ALL".

Input Example

RTRV-ALM-HDSL:SYS1:N3-4-6-12:555::CR,LOS,SA,FEND,BTH;

Output Format

```

SID DATE TIME
M CTAG COMPLD
"<HdslAid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>],
[<LOCN>]"
;

```

Output Parameters

- HdslAid** HDSL Port Access Identifier. The address of the HDSL port which has an outstanding alarm. *HdslAid* is the AID [SixPortLuAid](#).
- AIDTYPE** AID Type. This parameter identifies the type of entity which the alarm is associated with. *AIDTYPE* is of type [AIDType](#).
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the alarm condition. *NTFCNCDE* is of type [NotificationAlm](#).
- CONDTYPE** Condition Type. This parameter indicates the type of alarm condition. *CONDTYPE* is of type [CondTypeHdsL](#).
- SRVEFF** Service Effect. This parameter identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.
- LOCN** Location. This parameter identifies the location associated with a particular alarm. *LOCN* is of type [LocationAll](#). *LOCN* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-4-6-12,HDSL:CR,LOS,SA,04-03,12-03-34,FEND:"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-IMA

Name

RTRV-ALM-IMA: Retrieve Alarm IMA

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with IMA port entities within the C7.

Related Messages:

DLT-AP	DLT-AP-T1
DLT-GOS-AP	DLT-GOS-IMA
DLT-GOS-IMALINK	DLT-IMA
DLT-IMA-PORT	ED-AP
ED-GOS-AP	ED-GOS-IMA
ED-GOS-IMALINK	ED-IMA
ENT-AP	ENT-AP-T1
ENT-GOS-AP	ENT-GOS-IMA
ENT-GOS-IMALINK	ENT-IMA
ENT-IMA-PORT	INIT-REG-AP
INIT-REG-IMA	INIT-REG-IMALINK
REPT ALM AP	REPT ALM IMA
REPT ALM IMALINK	REPT EVT AP
REPT EVT IMA	REPT EVT IMALINK
REPT RMV AP	REPT RST AP
RMV-AP	RMV-IMA
RST-AP	RST-IMA
RTRV-ALM-AP	RTRV-ALM-IMALINK
RTRV-AP	RTRV-COND-AP
RTRV-COND-IMA	RTRV-GOS-AP
RTRV-GOS-IMA	RTRV-GOS-IMALINK
RTRV-IMA	RTRV-PM-AP
RTRV-PM-IMA	RTRV-PM-IMALINK

Input Format

```
RTRV-ALM-
IMA:[TID]:<ImaAid>:[CTAG]:::<NTFCNCDE>,[<CONDTYPE>],[<SRVEFF>],
[<LOCN>],[<DIRN>];
```

Input Parameters

ImaAid	IMA Group Access Identifier. The address of the IMA group which may have an outstanding alarm. <i>ImaAid</i> is the AID ImaRngAid and is listable and rangeable. <i>ImaAid</i> must not be null.
NTFCNCDE	Notification Code. This parameter is used to filter the response based on the notification code associated with the alarm conditions. <i>NTFCNCDE</i> is of type NotificationRtry . A null value is equivalent to "ALL".
CONDTYPE	Condition Type. This parameter is used to filter the response based on the Condition Type of the alarm, where a Condition Type is the type of alarm condition. <i>CONDTYPE</i> is of type CondTypeIma . A null value is equivalent to "ALL".
SRVEFF	Service Effect. This parameter is used to filter the response based on the Service Effect of the alarm, where Service Effect identifies the effect on service caused by the alarm condition. <i>SRVEFF</i> is of type ServiceEffect . A null value is equivalent to "ALL".
LOCN	Location. This parameter is used to filter the response based on the Location of the alarm. Thus, "near end" refers to alarm conditions occurring at the identified entity, and "far end" refers to alarm conditions occurring at a distant entity that is connected to the identified entity. Likewise, LINE[-x] refers to an intermediate point. <i>LOCN</i> is of type Location . A null value is equivalent to "ALL".
DIRN	DIRectioN. This is the direction of the alarm condition and is relative to the entity identified by the AID. This parameter is currently ignored. <i>DIRN</i> is of type Direction . A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-IMA:SYS1:N3-4-6-IMA3:555::CR,TIMMIS,SA,FEND,BTH;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD
"<ImaAid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>],
[<LOCN>]"
;
```

Output Parameters

ImaAid	IMA Group Access Identifier. The address of the IMA group which may have an outstanding alarm. <i>ImaAid</i> is the AID ImaGrpAid .
AIDTYPE	AID Type. This parameter identifies the type of entity which the alarm is associated with. <i>AIDTYPE</i> is of type AIDType .
NTFCNCDE	Notification Code. This parameter indicates the notification code associated with the alarm condition. <i>NTFCNCDE</i> is of type NotificationRtry .
CONDTYPE	Condition Type. This parameter indicates the type of alarm condition. <i>CONDTYPE</i> is of type CondTypeIma .
SRVEFF	Service Effect. This parameter is used to filter the response based on the effect on service associated with the alarm condition. <i>SRVEFF</i> is of type ServiceEffect .

OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. <i>OCRDAT</i> is a Date. <i>OCRDAT</i> is optional.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time. <i>OCRTM</i> is optional.
LOCN	Location. This parameter identifies the location associated with a particular alarm. <i>LOCN</i> is of type Location . <i>LOCN</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-4-6-IMA3,IMA:CR,TIMMIS,SA,04-03,12-03-34,FEND:"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-IMALINK

Name

RTRV-ALM-IMALINK: Retrieve Alarm IMALINK

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with one or more IMA link within the C7. The command may be used to retrieve C7 information, which in turn may be used to update an OS database when it is suspected that autonomous alarm messages issued by the C7 using REPT ALM IMALINK (Report Alarm IMALINK) were not received or properly processed. It may also be used to evaluate the system before or after maintenance operations. The alarm conditions to be retrieved can be specified by using the input parameters as the filter, i.e., existing conditions satisfying all the specified input parameters will be reported in the message response.

Extension to RTRV-ALM-rr defined in GR-833.

Related Messages:

[DLT-AP](#)

[DLT-AP-T1](#)

[DLT-GOS-AP](#)

[DLT-GOS-IMA](#)

[DLT-GOS-IMALINK](#)

[DLT-IMA](#)

[DLT-IMA-PORT](#)

[ED-AP](#)

ED-GOS-AP	ED-GOS-IMA
ED-GOS-IMALINK	ED-IMA
ENT-AP	ENT-AP-T1
ENT-GOS-AP	ENT-GOS-IMA
ENT-GOS-IMALINK	ENT-IMA
ENT-IMA-PORT	INIT-REG-AP
INIT-REG-IMA	INIT-REG-IMALINK
REPT ALM AP	REPT ALM IMA
REPT ALM IMALINK	REPT EVT AP
REPT EVT IMA	REPT EVT IMALINK
REPT RMV AP	REPT RST AP
RMV-AP	RMV-IMA
RST-AP	RST-IMA
RTRV-ALM-AP	RTRV-ALM-IMA
RTRV-AP	RTRV-COND-AP
RTRV-COND-IMA	RTRV-GOS-AP
RTRV-GOS-IMA	RTRV-GOS-IMALINK
RTRV-IMA	RTRV-PM-AP
RTRV-PM-IMA	RTRV-PM-IMALINK

Input Format

```
RTRV-ALM-
IMALINK: [ TID ] :<ImaLinkAid>: [ CTAG ] :: [ <NTFCNCDE> ] , [ <CONDTYPE> ] ,
[ <SRVEFF> ] ;
```

Input Parameters

- ImaLinkAid** IMA Link Access Identifier. The address of the IMA link which may have an outstanding alarm. *ImaLinkAid* is the AID [SixPortLuRngAid](#) and is listable and rangeable. *ImaLinkAid* must not be null.
- NTFCNCDE** Notification Code. This parameter is used to filter the response based on the notification code associated with the alarm conditions. *NTFCNCDE* is of type [NotificationRtry](#). A null value is equivalent to "ALL".
- CONDTYPE** Condition Type. This parameter is used to filter the response based on the Condition Type of the alarm, where a Condition Type is the type of alarm condition. *CONDTYPE* is of type [CondTypeImaLink](#). A null value is equivalent to "ALL".
- SRVEFF** Service Effect. This parameter is used to filter the response based on the Service Effect of the alarm, where Service Effect identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-IMALINK: SYS1:N3-4-6-3:555::MN,LIF,NSA;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<ImaLinkAid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],
[<OCRTM>],[<LOCN>]"
;

```

Output Parameters

- ImaLinkAid** IMA Link Access Identifier. The address of the IMA link which may have an outstanding alarm. *ImaLinkAid* is the AID [SixPortLuAid](#).
- AIDTYPE** AID Type. This parameter identifies the type of entity which the alarm is associated with. *AIDTYPE* is of type [AIDType](#).
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the alarm condition. *NTFCNCDE* is of type [NotificationRtry](#).
- CONDTYPE** Condition Type. This parameter indicates the type of alarm condition. *CONDTYPE* is of type [CondTypeImaLink](#).
- SRVEFF** Service Effect. This parameter is used to filter the response based on the effect on service associated with the alarm condition. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.
- LOCN** Location. This parameter identifies the location associated with a particular alarm. *LOCN* is of type [Location](#). *LOCN* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-4-6-3,IMALINK:MN,LIF,NSA,04-03,12-03-34,FEND:"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-LSWPORT

Name

RTRV-ALM-LSWPORT: Retrieve Alarm Logical Switch Port

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with one or more LSwitches within the C7. The command may be used to retrieve C7 information, which in turn may be used to update an OS database when it is suspected that autonomous alarm messages issued by the C7 using REPT ALM LSWITCH (Report Alarm LSWITCH) were not received or properly processed. It may also be used to evaluate the system before or after maintenance operations. The alarm conditions to be retrieved can be specified by using the input parameters as the filter, i.e., existing conditions satisfying all the specified input parameters will be reported in the message response.

Extension to RTRV-ALM-rr defined in GR-833.

Input Format

```
RTRV-ALM-
LSWPORT:[TID]:<LSwitchPortAid>:[CTAG]::[<NTFCNCDE>],[<CONDTYPE>],
[<SRVEFF>];
```

Input Parameters

LSwitchPortAid LSwitch Access Identifier. The address of the LSwitch which may have an outstanding alarm. *LSwitchPortAid* is the AID [LSwitchPortRngAid](#). *LSwitchPortAid* must not be null.

NTFCNCDE Notification Code. This parameter is used to filter the response based on the notification code associated with the alarm conditions. *NTFCNCDE* is of type [NotificationRtry](#). A null value is equivalent to "ALL".

CONDTYPE Condition Type. This parameter is used to filter the response based on the Condition Type of the alarm, where a Condition Type is the type of alarm condition. *CONDTYPE* is of type [CondTypeLSwitch](#). A null value is equivalent to "ALL".

SRVEFF Service Effect. This parameter is used to filter the response based on the Service Effect of the alarm, where Service Effect identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-LSWPORT:SYS1:N3-4-XLAN3-NTWK1:555::MJ,XLANOPEN,SA;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<LSwitchPortAid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],
[<OCRTM>],[<LOCN>]:,,[<OBSDBHVR>]"
;"
```

Output Parameters

LSwitchPortAid	LSwitch Access Identifier. The address of the LSwitch which has an outstanding alarm. <i>LSwitchPortAid</i> is the AID LSwitchPortAid .
AIDTYPE	AID Type. This parameter identifies the type of entity which the alarm is associated with. <i>AIDTYPE</i> is of type AIDType .
NTFCNCDE	Notification Code. This parameter indicates the notification code associated with the alarm condition. <i>NTFCNCDE</i> is of type NotificationRtry .
CONDTYPE	Condition Type. This parameter indicates the type of alarm condition. <i>CONDTYPE</i> is of type CondTypeLSwitch .
SRVEFF	AID Type. This parameter identifies the type of entity which the alarm is associated with. <i>SRVEFF</i> is of type ServiceEffect .
OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. <i>OCRDAT</i> is a Date. <i>OCRDAT</i> is optional.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time. <i>OCRTM</i> is optional.
LOCN	Location. This parameter identifies the location associated with a particular alarm. <i>LOCN</i> is the AID UserAid . <i>LOCN</i> is optional.
OBSDBHVR	Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. <i>OBSDBHVR</i> is a String. <i>OBSDBHVR</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "N3-4-XLAN3-NTWK1,LSWPRT:MJ,XLANOPEN,SA,04-03,12-03-
34,NEND:,,\\"ERROR 0X12345678\\"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-ONT

Name

RTRV-ALM-ONT: Retrieve Alarm Optical Network Termination

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with ONT entities within the C7.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV ONT	REPT RMV RFVID
REPT RST AVO	REPT RST ONT
REPT RST RFVID	RMV-AVO
RMV-ONT	RMV-RFVID
RST-AVO	RST-ONT
RST-RFVID	RTRV-ALM-AVO
RTRV-ALM-RFVID	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
RTRV-ALM-
ONT: [TID]:<OntAid>:[CTAG]::[ <NTFCNCDE> ], [ <CONDTYPE> ], [ <SRVEFF> ];
```

Input Parameters

- OntAid** ONT Access Identifier. *OntAid* is the AID [OntRngAid](#) and is listable and rangeable. *OntAid* must not be null.
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the alarm condition. *NTFCNCDE* is of type [NotificationAlm](#). A null value is equivalent to "ALL".
- CONDTYPE** Condition Type. This parameter indicates the type of alarm condition. *CONDTYPE* is of type [CondTypeOnt](#). A null value is equivalent to "ALL".
- SRVEFF** Service Effect. This parameter is used to filter the response based on the effect on service associated with the alarm condition. *SRVEFF* is of type [ServiceEffect](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-ONT:SYS1:N6-3-11-1-22:555::MN, MEM, NSA;
```

Output Format

```
    SID DATE TIME
M    CTAG COMPLD
"<OntAid>, <AIDTYPE>: <NTFCNCDE>, <CONDTYPE>, <SRVEFF>, [ <OCRDAT> ], [ <OCRTM> ]"
;"
```

Output Parameters

- OntAid** ONT Access Identifier. *OntAid* is the AID [OntAid](#).
- AIDTYPE** AID Type. This parameter identifies the type of entity which the alarm is associated with. *AIDTYPE* is of type [AIDType](#).
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the alarm condition. *NTFCNCDE* is of type [NotificationAlm](#).
- CONDTYPE** Condition Type. This parameter indicates the type of alarm condition. *CONDTYPE* is of type [CondTypeOnt](#).
- SRVEFF** Service Effect. This parameter is used to filter the response based on the effect on service associated with the alarm condition. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N6-3-11-1-22,ONT:MN, MEM, NSA, 04-03,12-03-34"
;"
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-PON

Name

RTRV-ALM-PON: Retrieve Alarm Passive Optical Network

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with PON entities within the C7.

Input Format

```
RTRV-ALM-
PON: [ TID ] :<PonAid>:[ CTAG ] ::[ <NTFCNCDE> ], [ <CONDTYPE> ], [ <SRVEFF> ] ;
```

Input Parameters

PonAid The Access Identifier of a PON port. *PonAid* is the AID [FourPortLuRngAid](#) and is listable and rangeable. *PonAid* must not be null.

NTFCNCDE Notification Code. This parameter indicates the notification code associated with the alarm condition. *NTFCNCDE* is of type [NotificationAlm](#). A null value is equivalent to "ALL".

CONDTYPE Condition Type. This parameter indicates the type of alarm condition. *CONDTYPE* is of type [CondTypePon](#). A null value is equivalent to "ALL".

SRVEFF Service Effect. This parameter is used to filter the response based on the effect on service associated with the alarm condition. *SRVEFF* is of type [ServiceEffect](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-PON:SYS:N2-4-3-1:123::MN,LOS,SA;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD
"<PonAid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>]"
;

```

Output Parameters

- PonAid** The Access Identifier of a PON port. *PonAid* is the AID [FourPortLuAid](#).
- AIDTYPE** AID Type. This parameter identifies the type of entity which the alarm is associated with. *AIDTYPE* is of type [AIDType](#).
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the alarm condition. *NTFCNCDE* is of type [NotificationAlm](#).
- CONDTYPE** Condition Type. This parameter indicates the type of alarm condition. *CONDTYPE* is of type [CondTypePon](#).
- SRVEFF** Service Effect. This parameter is used to filter the response based on the effect on service associated with the alarm condition. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N2-4-3-1,PON:MN,LOS,SA,04-03,12-03-34"
;

```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-PP

Name

RTRV-ALM-PP: Retrieve Alarm Pseudo-Port

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with pseudo-port entities within the C7. The command may be used to retrieve C7 information, which in turn may be used to update an OS database when it is suspected that autonomous alarm messages issued by the C7 using REPT ALM PP (Report Alarm Pseudo-Port) were not received or properly processed. It may also be used to evaluate the system before or after maintenance operations. The alarm conditions to be retrieved can be specified by using the input parameters as the filter, i.e., existing conditions satisfying all the specified input parameters will be reported in the message response.

Defined in GR-833.

Related Messages:

[ACT-PROTN-VC](#)

[DLT-CRS-VC](#)

[DLT-PP](#)

[ED-CRS-VC](#)

[ED-PROF-TRF](#)

[ENT-CRS-VP](#)

[ENT-PROF-TRF](#)

[INIT-CSTAT-VP](#)

[INJ-LPBK-VP](#)

[MV-CRS-VP](#)

[OPR-CC-VP](#)

[REPT EVT PP](#)

[REPT EVT VP](#)

[REPT RST PP](#)

[RLS-CC-VP](#)

[RST-PP](#)

[RTRV-CRS-VC](#)

[RTRV-CSTAT-VC](#)

[RTRV-PP](#)

[RTRV-VTI](#)

[ACT-PROTN-VP](#)

[DLT-CRS-VP](#)

[DLT-PROF-TRF](#)

[ED-CRS-VP](#)

[ENT-CRS-VC](#)

[ENT-PP](#)

[INIT-CSTAT-VC](#)

[INJ-LPBK-VC](#)

[MV-CRS-VC](#)

[OPR-CC-VC](#)

[REPT ALM PP](#)

[REPT EVT VC](#)

[REPT RMV PP](#)

[RLS-CC-VC](#)

[RMV-PP](#)

[RTRV-COND-PP](#)

[RTRV-CRS-VP](#)

[RTRV-CSTAT-VP](#)

[RTRV-PROF-TRF](#)

Input Format

```
RTRV-ALM-
PP:[TID]:<PpAid>:[CTAG]::[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>];
```

Input Parameters

PpAid Pseudo-Port Access Identifier. The address of the pseudo-port which may have an outstanding alarm. *PpAid* is the AID [PpRngAid](#) and is listable and rangeable. *PpAid* must not be null.

NTFCNCDE Notification Code. This parameter is used to filter the response based on the notification code associated with the alarm conditions. *NTFCNCDE* is of type [NotificationRtry](#). A null value is equivalent to "ALL".

CONDTYPE Condition Type. This parameter is used to filter the response based on the Condition Type of the alarm, where a Condition Type is the type of alarm condition. *CONDTYPE* is of type [CondTypePp](#). A null value is equivalent to "ALL".

SRVEFF Service Effect. This parameter is used to filter the response based on the Service Effect of the alarm, where Service Effect identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-PP:SYS1:N6-3-11-PP1:555::MN,AUDITMM,NSA;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD
"<PpAid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>],,:,
[<OBSDBHVR>]"
;
```

Output Parameters

- PpAid** Pseudo-Port Access Identifier. The address of the pseudo-port which has an outstanding alarm. *PpAid* is the AID [PpAid](#).
- AIDTYPE** AID Type. This parameter identifies the type of entity which the alarm is associated with. *AIDTYPE* is of type [AIDType](#).
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the alarm condition. *NTFCNCDE* is of type [NotificationRtry](#).
- CONDTYPE** Condition Type. This parameter indicates the type of alarm condition. *CONDTYPE* is of type [CondTypePp](#).
- SRVEFF** Service Effect. This parameter identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.
- OBSDBHVR** Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. *OBSDBHVR* is a String. *OBSDBHVR* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N6-3-11-PP1,PP:MN,AUDITMM,NSA,04-03,12-03-34,:,\\"ERROR
0X12345678\""
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-PPL

Name

RTRV-ALM-PPL: Retrieve Alarm Path Protection Label

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with the specified shelf within the C7.

Related Messages:

[ENT-PPL](#)

[OPR-PROTNSTW-PPL](#)

[REPT ALM PPL](#)

[REPT EVT PPL](#)

[RLS-PROTNSTW-PPL](#)

[RTRV-COND-PPL](#)

[RTRV-PPL](#)

Input Format

```
RTRV-ALM-
PPL:[TID]:<PplAid>:[CTAG]::[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>];
```

Input Parameters

PplAid Path Protection LayerIdentifier. The address of the STS1 path for which conditions are being retrieved. *PplAid* is the AID [PplId1](#) and is listable and rangeable. *PplAid* must not be null.

NTFCNCDE Notification Code. This parameter indicates the notification code associated with the condition. *NTFCNCDE* is of type [NotificationRtry](#). A null value is equivalent to "ALL".

CONDTYPE Condition Type. This parameter is used to filter the response based on the Condition Type of the alarm, where a Condition Type is the type of alarm condition. *CONDTYPE* is of type [CondTypePpl](#). A null value is equivalent to "ALL".

SRVEFF Service Effect. This parameter is used to filter the response based on the Service Effect of the alarm, where Service Effect identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-PPL:SYS1:N6-3-11-1-55:555::MJ,LOSPPL,SA;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD
"<PplAid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>]"
;
```

Output Parameters

- PplAid** Path Protection LayerIdentifier. The address of the STS1 path for which conditions are being retrieved. *PplAid* is the AID [PplId1](#).
- AIDTYPE** AID Type. This parameter identifies the type of entity which the condition is associated. *AIDTYPE* is of type [AIDType](#).
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the alarm condition. *NTFCNCDE* is of type [NotificationRtry](#).
- CONDTYPE** Condition Type. This parameter indicates the type of alarm condition. *CONDTYPE* is of type [CondTypePpl](#).
- SRVEFF** Service Effect. This parameter identifies the effect on service caused by the condition. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** *OCRTM* is a Time. *OCRTM* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N6-3-11-1-55,PPL:MJ,LOSPPL,SA,04-03,12-03-34"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-PPPOEHOSTS

Name

RTRV-ALM-PPPOEHOSTS: Retrieve Alarm PPPOEHOSTS

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with PPPoE Hosts

Input Format

```
RTRV-ALM-
PPPOEHOSTS:[TID]:<RTRAID>:[CTAG]::[<NTFCNCDE>],[<CONDTYPE>],
[<SRVEFF>];
```

Input Parameters

RTRAID *RTRAID* is the AID [SlotLuAid](#) and is listable and rangeable. *RTRAID* must not be null.

NTFCNCDE *NTFCNCDE* is of type [NotificationRtrv](#). A null value is equivalent to "ALL".

CONDTYPE *CONDTYPE* is of type [CondTypePPPoE](#). A null value is equivalent to "ALL".

SRVEFF *SRVEFF* is of type [ServiceEffect](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-PPPOEHOSTS:SYS1:N6-3-11:555::MJ,PPPOEACS,SA;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<RTRAID>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,<OCRTM>"
;"
```

Output Parameters

RTRAID *RTRAID* is the AID [SlotLuAid](#).

AIDTYPE *AIDTYPE* is of type [AIDType](#).

NTFCNCDE *NTFCNCDE* is of type [NotificationRtrv](#).

CONDTYPE *CONDTYPE* is of type [CondTypePPPoE](#).

SRVEFF *SRVEFF* is of type [ServiceEffect](#).

OCRDAT *OCRDAT* is a Date.

OCRTM *OCRTM* is a Time.

Output Example

```
M TID-000 98-06-20 14-30-00
M 001 COMPLD
; "N6-3-11,PPPOEHOSTS:MJ,PPPOEACS,SA,04-03,12-03-34"
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-RFVID

Name

RTRV-ALM-RFVID: Retrieve Alarm Rf-Video

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with RFVID entities within the C7.

Related Messages:

[DLT-AVO](#)

[DLT-GOS-ONT](#)

[DLT-IG-VDS1](#)

[DLT-ONT](#)

[DLT-PROF-ONT](#)

[DLT-RFVID](#)

[DLT-VCG](#)

[DLT-VRP](#)

[ED-AVO](#)

[ED-GOS-ONT](#)

[ED-ONT](#)

[ED-PROF-ONT](#)

[ED-RFVID](#)

[ED-VCG](#)

[ED-VRP](#)

[ENT-AVO](#)

[ENT-GOS-ONT](#)

[ENT-IG-VDS1](#)

[ENT-ONT](#)

[ENT-PROF-ONT](#)

[ENT-RFVID](#)

[ENT-VCG](#)

[ENT-VRP](#)

[INIT-ONT-UA](#)

[INIT-REG-ONT](#)

[REPT ALM AVO](#)

[REPT ALM ONT](#)

[REPT ALM RFVID](#)

[REPT ALM VCG](#)

[REPT ALM VRP](#)

[REPT EVT ONT](#)

[REPT RMV AVO](#)

REPT RMV ONT	REPT RMV RFVID
REPT RST AVO	REPT RST ONT
REPT RST RFVID	RMV-AVO
RMV-ONT	RMV-RFVID
RST-AVO	RST-ONT
RST-RFVID	RTRV-ALM-AVO
RTRV-ALM-ONT	RTRV-ALM-VCG
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
RTRV-ALM-
RFVID:[TID]:<OntPortAid>:[CTAG]::[<NTFCNCDE>],[<CONDTYPE>],
[<SRVEFF>];
```

Input Parameters

- OntPortAid** The Access Identifier of a RFVID port on an ONT. *OntPortAid* is the AID [OntPortRngAid](#) and is listable and rangeable. *OntPortAid* must not be null.
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the alarm condition. *NTFCNCDE* is of type [NotificationAlm](#). A null value is equivalent to "ALL".
- CONDTYPE** Condition Type. This parameter indicates the type of alarm condition. *CONDTYPE* is of type [CondTypeRfVid](#). A null value is equivalent to "ALL".
- SRVEFF** Service Effect. This parameter is used to filter the response based on the effect on service associated with the alarm condition. *SRVEFF* is of type [ServiceEffect](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-RFVID:SYS:N2-4-3-1-23-1:123::MN,LOS,SA;
```

Output Format

SID	DATE	TIME
M	CTAG	COMPLD

```
"<OntPortAid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],
[<OCRTM>]"
```



Output Parameters

- OntPortAid** The Access Identifier of a RFVID port on an ONT. *OntPortAid* is the AID [OntPortAid](#).
- AIDTYPE** AID Type. This parameter identifies the type of entity which the alarm is associated with. *AIDTYPE* is of type [AIDType](#).
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the alarm condition. *NTFCNCDE* is of type [NotificationAlm](#).
- CONDTYPE** Condition Type. This parameter indicates the type of alarm condition. *CONDTYPE* is of type [CondTypeRFVid](#).
- SRVEFF** Service Effect. This parameter is used to filter the response based on the effect on service associated with the alarm condition. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N2-4-3-1-23-1,RFVID:MN,LOS,SA,04-03,12-03-34"
;

```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-SECU

Name

RTRV-ALM-SECU: Retrieve Alarm Security

Description

Category: Fault **Security:** Security Administrator

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with Security within the C7.

Related Messages:

[ALW-MSG-SECU](#)
[CANC-CID-SECU](#)
[DLT-TMPLT-SECU](#)
[ED-RADIUS](#)
[ED-TMPLT-SECU](#)
[ENT-TMPLT-SECU](#)
[INH-MSG-SECU](#)
[REPT ALM SECU](#)
[RTRV-COND-SECU](#)
[RTRV-STATUS](#)
[RTRV-TMPLT-SECU](#)

[ALW-USER-SECU](#)
[CANC-SES-SECU](#)
[DLT-USER-SECU](#)
[ED-SYS-SECU](#)
[ED-USER-SECU](#)
[ENT-USER-SECU](#)
[INH-USER-SECU](#)
[REPT EVT SECU](#)
[RTRV-RADIUS](#)
[RTRV-SYS-SECU](#)
[RTRV-USER-SECU](#)

Input Format

```
RTRV-ALM-
SECU:[TID]:<SecuAid>:[CTAG]::[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>];
```

Input Parameters

- SecuAid** Security Access Identifier. This will be either a management slot AID or "SYS", representing system-level alarms. *SecuAid* is the AID [SecurityId](#) and is listable. *SecuAid* must not be null.
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the condition. *NTFCNCDE* is of type [NotificationRtrv](#). A null value is equivalent to "ALL".
- CONDTYPE** Condition Type. This parameter is used to filter the response based on the Condition Type of the alarm, where a Condition Type is the type of alarm condition. *CONDTYPE* is of type [CondTypeSecu](#). A null value is equivalent to "ALL".
- SRVEFF** Service Effect. This parameter is used to filter the response based on the Service Effect of the alarm, where Service Effect identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-SECU:XYZ:SYS:456::MN,RADSERVFAIL,NSA;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<SecuAid>,<AIDTYPE>:[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],[<OCRDAT>],
[<OCRTM>]"
;"
```

Output Parameters

SecuAid	Security Access Identifier. <i>SecuAid</i> is the AID SecurityId1 .
AIDTYPE	AID Type. This parameter identifies the type of entity which the condition is associated. <i>AIDTYPE</i> is of type AIDType .
NTFCNCDE	Notification Code. This parameter indicates the notification code associated with the alarm condition. <i>NTFCNCDE</i> is of type NotificationRtry . <i>NTFCNCDE</i> is optional.
CONDTYPE	Condition Type. This parameter indicates the type of alarm condition. <i>CONDTYPE</i> is of type CondTypeSecu . <i>CONDTYPE</i> is optional.
SRVEFF	Service Effect. This parameter identifies the effect on service caused by the condition. <i>SRVEFF</i> is of type ServiceEffect . <i>SRVEFF</i> is optional.
OCRDAT	Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. <i>OCRDAT</i> is a Date. <i>OCRDAT</i> is optional.
OCRTM	Occurrence Time. This parameter identifies the time when the triggered event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time. <i>OCRTM</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "SYS,SECU:MN,RADSERVFAIL,NSA,02-09,13-30-22"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-SHELF

Name

RTRV-ALM-SHELF: Retrieve Alarm SHELF

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with the specified shelf within the C7.

Related Messages:

[ALW-STBY-UPGRD](#)

[DLT-ALM-SHELF](#)

[DLT-NODE](#)
[ED-NODE](#)
[ED-SYS](#)
[ENT-NODE](#)
[INH-STBY-UPGRD](#)
[OPR-BAR](#)
[REPT EVT MEM](#)
[RTRV-BAR](#)
[RTRV-HDR](#)
[RTRV-NODE](#)
[RTRV-SYS](#)

[ED-DAT](#)
[ED-SHELF](#)
[ED-SYS-SECU](#)
[ENT-SHELF](#)
[INIT-SYS](#)
[REPT ALM SHELF](#)
[REPT EVT SHELF](#)
[RTRV-COND-SHELF](#)
[RTRV-NETYPE](#)
[RTRV-SHELF](#)
[RTRV-SYS-SECU](#)

Input Format

```
RTRV-ALM-
SHELF:[TID]:<ShelfAid>:[CTAG]::[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>];
```

Input Parameters

- ShelfAid** Shelf Access Identifier. *ShelfAid* is the AID [ShelfAid](#). *ShelfAid* must not be null.
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the condition. *NTFCNCDE* is of type [NotificationRtrv](#). A null value is equivalent to "ALL".
- CONDTYPE** Condition Type. This parameter is used to filter the response based on the Condition Type of the alarm, where a Condition Type is the type of alarm condition. *CONDTYPE* is of type [CondTypeShelf](#). A null value is equivalent to "ALL".
- SRVEFF** Service Effect. This parameter is used to filter the response based on the Service Effect of the alarm, where Service Effect identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-SHELF:SYS1:N3-4:555::MJ,SHELFLOSTCOMM,SA;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<ShelfAid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>]"
;"
```

Output Parameters

- ShelfAid** Shelf Access Identifier. *ShelfAid* is the AID [ShelfAid](#).
- AIDTYPE** AID Type. This parameter identifies the type of entity which the condition is associated. *AIDTYPE* is of type [AIDType](#).

- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the alarm condition. *NTFCNCDE* is of type [NotificationRtry](#).
- CONDTYPE** Condition Type. This parameter indicates the type of alarm condition. *CONDTYPE* is of type [CondTypeShelf](#).
- SRVEFF** Service Effect. This parameter identifies the effect on service caused by the condition. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the triggered event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "N3-4 ,SHELF:MJ,AIS-L,SA,04-03,12-03-34: "
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-SIP

Name

RTRV-ALM-SIP: Retrieve Alarm Session Initiation Protocol

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with SIP entities within the C7. The command may be used to retrieve C7 information, which in turn may be used to update an OS database when it is suspected that autonomous alarm messages issued by the C7 using REPT ALM PP (Report Alarm Pseudo-Port) were not received or properly processed. It may also be used to evaluate the system before or after maintenance operations. The alarm conditions to be retrieved can be specified by using the input parameters as the filter, i.e., existing conditions satisfying all the specified input parameters will be reported in the message response.

Input Format

```
RTRV-ALM-
```

SIP:[TID]:<IgAid>:[CTAG]::[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>];

Input Parameters

IgAid *IgAid* is the AID [IgAid](#). *IgAid* must not be null.

NTFCNCDE *NTFCNCDE* is of type [NotificationAlm](#). A null value is equivalent to "ALL".

CONDTYPE *CONDTYPE* is of type [CondTypeSipIg](#). A null value is equivalent to "ALL".

SRVEFF *SRVEFF* is of type [ServiceEffect](#). A null value is equivalent to "ALL".

Input Example

RTRV-ALM-SIP:SYS1:N1-2-IG3:123::MJ,SIPINVCFG,SA;
--

Output Format

SID DATE TIME M CTAG COMPLD "<IgAid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>]:,, [<OBSDBHVR>]" ;

Output Parameters

IgAid *IgAid* is the AID [IgAid](#).

AIDTYPE *AIDTYPE* is of type [AIDType](#).

NTFCNCDE *NTFCNCDE* is of type [NotificationAlm](#).

CONDTYPE *CONDTYPE* is of type [CondTypeSipIg](#).

SRVEFF *SRVEFF* is of type [ServiceEffect](#).

OCRDAT *OCRDAT* is a Date. *OCRDAT* is optional.

OCRTM *OCRTM* is a Time. *OCRTM* is optional.

OBSDBHVR *OBSDBHVR* is a String. *OBSDBHVR* is optional.

Output Example

TID-000 98-06-20 14-30-00 M 001 COMPLD "N1-2-IG3,SIP:MJ,SIPINVCFG,SA,04-03,12-03-34:,,\"PRICFGURL\"" ;

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-SIPVCG

Name

RTRV-ALM-SIPVCG: Retrieve Alarm SIPVCG

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with SIPVCG entities within the C7. The command may be used to retrieve C7 information, which in turn may be used to update an OS database when it is suspected that autonomous alarm messages issued by the C7 using REPT ALM PP (Report Alarm Pseudo-Port) were not received or properly processed. It may also be used to evaluate the system before or after maintenance operations. The alarm conditions to be retrieved can be specified by using the input parameters as the filter, i.e., existing conditions satisfying all the specified input parameters will be reported in the message response.

Input Format

```
RTRV-ALM-
SIPVCG: [TID]:<IgAid>:[CTAG]::[<NTFCNCDE>], [<CONDTYPE>], [<SRVEFF>];
```

Input Parameters

IgAid *IgAid* is the AID [IgAid](#). *IgAid* must not be null.

NTFCNCDE *NTFCNCDE* is of type [NotificationAlm](#). A null value is equivalent to "ALL".

CONDTYPE *CONDTYPE* is of type [CondTypeSipVcg](#). A null value is equivalent to "ALL".

SRVEFF *SRVEFF* is of type [ServiceEffect](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-SIPVCG:SYS:N1-2-IG5:123::MJ,CALLPROCLU,SA;
```

Output Format

	SID	DATE	TIME
M	CTAG	COMPLD	
"<IgAid>, <AIDTYPE>:<NTFCNCDE>, <CONDTYPE>, <SRVEFF>, [<OCRDAT>], [<OCRTM>]"			;

Output Parameters

IgAid	<i>IgAid</i> is the AID IgAid .
AIDTYPE	<i>AIDTYPE</i> is of type AIDType .
NTFCNCDE	<i>NTFCNCDE</i> is of type NotificationAlm .
CONDTYPE	<i>CONDTYPE</i> is of type CondTypeSipVcg .
SRVEFF	<i>SRVEFF</i> is of type ServiceEffect .
OCRDAT	<i>OCRDAT</i> is a Date. <i>OCRDAT</i> is optional.
OCRTM	<i>OCRTM</i> is a Time. <i>OCRTM</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-2-IG5,SIPVCG:MJ,CALLPROCLU,SA,3-22,14-36-12"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-T0

Name

RTRV-ALM-T0: Retrieve Alarm Digital Signal Zero

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with T0 facility entities within the C7. The command may be used to retrieve C7 information, which in turn may be used to update an OS database when it is suspected that autonomous alarm messages issued by the C7 using REPT ALM T0 (Report Alarm Digital Signal Level 0) were not received or properly processed. It may also be used to evaluate the system before or after maintenance operations. The alarm conditions to be retrieved can be specified by using the input parameters as the filter, i.e., existing conditions satisfying all the specified input parameters will be reported in the message response.

Defined in GR-833.

Related Messages:

[DLT-CRS-T0](#)

[DLT-T0](#)

ED-T0	ENT-CRS-T0
ENT-T0	REPT ALM T0
REPT EVT T0	REPT RMV T0
REPT RST T0	RMV-T0
RST-T0	RTRV-COND-T0
RTRV-CRS-T0	RTRV-CSTAT-T0
RTRV-T0	

Input Format

```
RTRV-ALM-
T0:[TID]:<Ds0Aid>:[CTAG]::[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],
[<LOCN>],[<DIRN>];
```

Input Parameters

Ds0Aid	T0 Port Access Identifier. The address of the T0 port which may have an outstanding alarm. <i>Ds0Aid</i> is the AID TwentyFourPortLuRngAid and is listable and rangeable. <i>Ds0Aid</i> must not be null.
NTFCNCDE	Notification Code. This parameter is used to filter the response based on the notification code associated with the alarm conditions. <i>NTFCNCDE</i> is of type NotificationRtry . A null value is equivalent to "ALL".
CONDTYPE	Condition Type. This parameter is used to filter the response based on the Condition Type of the alarm, where a Condition Type is the type of alarm condition. <i>CONDTYPE</i> is of type CondTypeT0Alm . A null value is equivalent to "ALL".
SRVEFF	Service Effect. This parameter is used to filter the response based on the Service Effect of the alarm, where Service Effect identifies the effect on service caused by the alarm condition. <i>SRVEFF</i> is of type ServiceEffect . A null value is equivalent to "ALL".
LOCN	Location. This parameter is used to filter the response based on the Location of the alarm. Thus, "near end" refers to alarm conditions occurring at the identified entity, and "far end" refers to alarm conditions occurring at a distant entity that is connected to the identified entity. Likewise, LINE[-x] refers to an intermediate point. <i>LOCN</i> is of type Location . A null value is equivalent to "ALL".
DIRN	DIRectioN. This is the direction of the alarm condition and is relative to the entity identified by the AID. This parameter is currently ignored. <i>DIRN</i> is of type Direction . A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-T0:SYS1:N3-4-6-12:555::CR,DBFAULT,SA,FEND,BTH;
```

Output Format

SID	DATE	TIME
M	CTAG	COMPLD
"<Ds0Aid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>],<LOCN>""		

Output Parameters

Ds0Aid	T0 Port Access Identifier. The address of the T0 port which has an outstanding alarm. <i>Ds0Aid</i> is the AID TwentyFourPortLuAid .
AIDTYPE	AID Type. This parameter identifies the type of entity which the alarm is associated with. <i>AIDTYPE</i> is of type AIDType .
NTFCNCDE	Notification Code. This parameter indicates the notification code associated with the alarm condition. <i>NTFCNCDE</i> is of type NotificationRtry .
CONDTYPE	Condition Type. This parameter indicates the type of alarm condition. <i>CONDTYPE</i> is of type CondTypeT0Alm .
SRVEFF	Service Effect. This parameter identifies the effect on service caused by the alarm condition. <i>SRVEFF</i> is of type ServiceEffect .
OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. <i>OCRDAT</i> is a Date. <i>OCRDAT</i> is optional.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time. <i>OCRTM</i> is optional.
LOCN	LOCATION. This parameter identifies the location associated with a particular alarm. <i>LOCN</i> is of type Location . <i>LOCN</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
  "N3-4-6-12,T1:CR,LOS,SA,04-03,12-03-34,FEND: "
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-T1

Name

RTRV-ALM-T1: Retrieve Alarm Digital Signal One

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with T1 facility entities within the C7. The command may be used to retrieve C7 information, which in turn may be used to update an OS database when it is suspected that autonomous alarm messages issued by the C7 using REPT ALM T1 (Report Alarm Digital Signal Level 1) were not received or properly processed. It may also be used to evaluate the system before or after maintenance operations. The alarm conditions to be retrieved can be specified by using the input parameters as the filter, i.e., existing conditions satisfying all the specified input parameters will be reported in the message response.

Defined in GR-833.

Related Messages:

[DLT-AP-T1](#)

[DLT-GOS-T1](#)

[ED-GOS-T1](#)

[ENT-AP-T1](#)

[ENT-GOS-T1](#)

[INIT-REG-T1](#)

[REPT ALM T1](#)

[REPT RMV T1](#)

[RLS-LPBK-T1](#)

[RST-T1](#)

[RTRV-CRS-T1](#)

[RTRV-PM-T1](#)

[DLT-CRS-T1](#)

[DLT-T1](#)

[ED-T1](#)

[ENT-CRS-T1](#)

[ENT-T1](#)

[OPR-LPBK-T1](#)

[REPT EVT T1](#)

[REPT RST T1](#)

[RMV-T1](#)

[RTRV-COND-T1](#)

[RTRV-GOS-T1](#)

[RTRV-T1](#)

Input Format

```
RTRV-ALM-
T1:[TID]:<Ds1Aid>:[CTAG]::[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],
[<LOCN>],[<DIRN>];
```

Input Parameters

Ds1Aid T1 Port Access Identifier. The address of the T1 port which may have an outstanding alarm. *Ds1Aid* is the AID [TwelvePortLuRngAid](#) and is listable and rangeable. *Ds1Aid* must not be null.

NTFCNCDE Notification Code. This parameter is used to filter the response based on the notification code associated with the alarm conditions. *NTFCNCDE* is of type [NotificationRtry](#). A null value is equivalent to "ALL".

CONDTYPE Condition Type. This parameter is used to filter the response based on the Condition Type of the alarm, where a Condition Type is the type of alarm condition. *CONDTYPE* is of type [CondTypeT1](#). A null value is equivalent to "ALL".

SRVEFF Service Effect. This parameter is used to filter the response based on the Service Effect of the alarm, where Service Effect identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#). A null value is equivalent to "ALL".

LOCN Location. This parameter is used to filter the response based on the Location of the alarm. Thus, "near end" refers to alarm conditions occurring at the identified entity, and "far

"end" refers to alarm conditions occurring at a distant entity that is connected to the identified entity. Likewise, LINE[-x] refers to an intermediate point. *LOCN* is of type [Location](#). A null value is equivalent to "ALL".

DIRN

DIRectioN. This is the direction of the alarm condition and is relative to the entity identified by the AID. This parameter is currently ignored. *DIRN* is of type [Direction](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-T1:SYS1:N3-4-6-12:555::CR,LOS,SA,FEND,BTH;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<Ds1Aid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>],
[<LOCN>]"
;"
```

Output Parameters

- Ds1Aid** T1 Port Access Identifier. The address of the T1 port which has an outstanding alarm. *Ds1Aid* is the AID [TwelvePortLuAid](#).
- AIDTYPE** AID Type. This parameter identifies the type of entity which the alarm is associated with. *AIDTYPE* is of type [AIDType](#).
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the alarm condition. *NTFCNCDE* is of type [NotificationRtry](#).
- CONDTYPE** Condition Type. This parameter indicates the type of alarm condition. *CONDTYPE* is of type [CondTypeT1](#).
- SRVEFF** Service Effect. This parameter identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#).
- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.
- LOCN** Location. This parameter identifies the location associated with a particular alarm. *LOCN* is of type [Location](#). *LOCN* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-4-6-12,T1:CR,LOS,SA,04-03,12-03-34,FEND:"
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-T1TG

Name

RTRV-ALM-T1TG: Retrieve Alarm T1 Transport Group

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with one or more EOC/TMC Datalink entities within the C7. The command may be used to retrieve C7 information, which in turn may be used to update an OS database when it is suspected that autonomous alarm messages issued by the C7 using REPT ALM T1TG (Report Alarm T1TG) were not received or properly processed. It may also be used to evaluate the system before or after maintenance operations. The alarm conditions to be retrieved can be specified by using the input parameters as the filter, i.e., existing conditions satisfying all the specified input parameters will be reported in the message response.

Extension to RTRV-ALM-rr defined in GR-833.

Related Messages:

[ALW-Swdx-GR303](#)

[DLT-CRS-T0](#)

[DLT-GR8](#)

[DLT-T1TG](#)

[ED-GR8](#)

[ENT-GR303](#)

[ENT-IG-DS1](#)

[INH-Swdx-GR303](#)

[REPT ALM GR303](#)

[REPT EVT GR303](#)

[REPT SW GR303](#)

[RTRV-ALM-GR303](#)

[RTRV-COND-T1TG](#)

[RTRV-DLSTAT-GR303](#)

[RTRV-GR303](#)

[RTRV-IG-DS1](#)

[SW-DX-GR303](#)

[ALW-Swdx-T1TG](#)

[DLT-GR303](#)

[DLT-IG-DS1](#)

[ED-GR303](#)

[ENT-CRS-T0](#)

[ENT-GR8](#)

[ENT-T1TG](#)

[INH-Swdx-T1TG](#)

[REPT ALM T1TG](#)

[REPT EVT T1TG](#)

[REPT SW T1TG](#)

[RTRV-COND-GR303](#)

[RTRV-CRS-T0](#)

[RTRV-DLSTAT-T1TG](#)

[RTRV-GR8](#)

[RTRV-T1TG](#)

[SW-DX-T1TG](#)

Input Format

```
RTRV-ALM-
T1TG:[TID]:<DataLinkSwAid>:[CTAG]::[<NTFCNCDE>],[<CONDTYPE>],
[<SRVEFF>];
```

Input Parameters

- DataLinkSwAid** T1TG Data Link Access Identifier. The address of the T1 Transport Group EOC/TMC data links which may have an outstanding alarm. *DataLinkSwAid* is the AID [IgLinkSwRngAid](#) and is listable and rangeable. *DataLinkSwAid* must not be null.
- NTFCNCDE** Notification Code. This parameter is used to filter the response based on the notification code associated with the alarm conditions. *NTFCNCDE* is of type [NotificationRtry](#). A null value is equivalent to "ALL".
- CONDTYPE** Condition Type. This parameter is used to filter the response based on the Condition Type of the alarm, where a Condition Type is the type of alarm condition. *CONDTYPE* is of type [CondTypeIg](#). A null value is equivalent to "ALL".
- SRVEFF** Service Effect. This parameter is used to filter the response based on the Service Effect of the alarm, where Service Effect identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-T1TG:SYS1:N3-4-IG4-EOC:555::CR,EOCDUPLEX,SA;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<DataLinkSwAid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],
[<OCRTM>]"
;"
```

Output Parameters

- DataLinkSwAid** T1TG Data Link Access Identifier. The address of the T1 Transport Group EOC/TMC data links which may have an outstanding alarm. *DataLinkSwAid* is the AID [IgLinkSwAid](#).
- AIDTYPE** AID Type. This parameter identifies the type of entity which the alarm is associated with. *AIDTYPE* is of type [AIDType](#).
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the alarm condition. *NTFCNCDE* is of type [NotificationRtry](#).
- CONDTYPE** Condition Type. This parameter indicates the type of alarm condition. *CONDTYPE* is of type [CondTypeIg](#).
- SRVEFF** Service Effect. This parameter identifies the effect on service caused by the alarm

condition. *SRVEFF* is of type [ServiceEffect](#).

- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-4-IG4-EOC,T1TG:CR,EOCDUPLEX,SA,04-03,12-03-34: "
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-T3

Name

RTRV-ALM-T3: Retrieve Alarm Digital Signal 3

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with T3 facility entities within the C7. The command may be used to retrieve C7 information, which in turn may be used to update an OS database when it is suspected that autonomous alarm messages issued by the C7 using REPT ALM T3 (Report Alarm Digital Signal Level 3) were not received or properly processed. It may also be used to evaluate the system before or after maintenance operations. The alarm conditions to be retrieved can be specified by using the input parameters as the filter, i.e., existing conditions satisfying all the specified input parameters will be reported in the message response.

Defined in GR-833.

Related Messages:

[DLT-GOS-T3](#)
[ED-GOS-T3](#)
[ENT-GOS-T3](#)
[INIT-REG-T3](#)
[REPT ALM T3](#)

[DLT-T3](#)
[ED-T3](#)
[ENT-T3](#)
[OPR-LPBK-T3](#)
[REPT EVT T3](#)

[REPT RMV T3](#)
[RLS-LPBK-T3](#)
[RST-T3](#)
[RTRV-GOS-T3](#)
[RTRV-T3](#)

[REPT RST T3](#)
[RMV-T3](#)
[RTRV-COND-T3](#)
[RTRV-PM-T3](#)

Input Format

```
RTRV-ALM-
T3:[TID]:<Ds3Aid>:[CTAG]::[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],
[<LOCN>],[<DIRN>];
```

Input Parameters

Ds3Aid	T3 Port Access Identifier. The address of the T3 port which may have an outstanding alarm. <i>Ds3Aid</i> is the AID T3RngAid and is listable and rangeable. <i>Ds3Aid</i> must not be null.
NTFCNCDE	Notification Code. This parameter is used to filter the response based on the notification code associated with the alarm conditions. <i>NTFCNCDE</i> is of type NotificationRtry . A null value is equivalent to "ALL".
CONDTYPE	Condition Type. This parameter is used to filter the response based on the Condition Type of the alarm, where a Condition Type is the type of alarm condition. <i>CONDTYPE</i> is of type CondTypeT3 . A null value is equivalent to "ALL".
SRVEFF	Service Effect. This parameter is used to filter the response based on the Service Effect of the alarm, where Service Effect identifies the effect on service caused by the alarm condition. <i>SRVEFF</i> is of type ServiceEffect . A null value is equivalent to "ALL".
LOCN	Location. This parameter is used to filter the response based on the Location of the alarm. Thus, "near end" refers to alarm conditions occurring at the identified entity, and "far end" refers to alarm conditions occurring at a distant entity that is connected to the identified entity. Likewise, LINE[-x] refers to an intermediate point. <i>LOCN</i> is of type Location . A null value is equivalent to "ALL".
DIRN	DIRectioN. This is the direction of the alarm condition and is relative to the entity identified by the AID. This parameter is currently ignored. <i>DIRN</i> is of type Direction . A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-T3:SYS1:N3-4-8-11:555::CR,LOS,SA,FEND,BTH;
```

Output Format

	SID	DATE	TIME
M	CTAG	COMPLD	
"<Ds3Aid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>],	[<LOCN>]"		
;			

Output Parameters

Ds3Aid	T3 Port Access Identifier. The address of the T3 port which has an outstanding alarm. <i>Ds3Aid</i> is the AID T3Aid .
AIDTYPE	AID Type. This parameter identifies the type of entity which the alarm is associated with. <i>AIDTYPE</i> is of type AIDType .
NTFCNCDE	Notification Code. This parameter indicates the notification code associated with the alarm condition. <i>NTFCNCDE</i> is of type NotificationRtry .
CONDTYPE	Condition Type. This parameter indicates the type of alarm condition. <i>CONDTYPE</i> is of type CondTypeT3 .
SRVEFF	Service Effect. This parameter identifies the effect on service caused by the alarm condition. <i>SRVEFF</i> is of type ServiceEffect .
OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. <i>OCRDAT</i> is a Date. <i>OCRDAT</i> is optional.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time. <i>OCRTM</i> is optional.
LOCN	Location. This parameter identifies the location associated with a particular alarm. <i>LOCN</i> is of type Location . <i>LOCN</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-4-8-11,T3:CR,LOS,SA,04-03,12-03-34,FEND: "
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-TMG

Name

RTRV-ALM-TMG: Retrieve Alarm Timing

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with timing within the C7. The command may be used to retrieve C7 information, which in turn may be

used to update an OS database when it is suspected that autonomous alarm messages issued by the C7 using REPT ALM TMG (Report Alarm Timing) were not received or properly processed. It may also be used to evaluate the system before or after maintenance operations. The alarm conditions to be retrieved can be specified by using the input parameters as the filter, i.e., existing conditions satisfying all the specified input parameters will be reported in the message response.

Defined in GR-833.

Related Messages:

[ED-TMG](#)
[REPT ALM TMG](#)
[RLS-SYNCNSW](#)
[RTRV-COND-TMG](#)
[RTRV-TMG](#)

[OPR-SYNCNSW](#)
[REPT EVT TMG](#)
[RTRV-COND-TMG](#)

Input Format

```
RTRV-ALM-TMG:[ TID ]:<ShelfAid>:[ CTAG ] ;
```

Input Parameters

ShelfAid Shelf Access Identifier. The address of the shelf where the timing is located which may have an outstanding alarm. *ShelfAid* is the AID [ShelfAid](#). *ShelfAid* must not be null.

Input Example

```
RTRV-ALM-TMG:SYS1:N3-5:555 ;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<ShelfAid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>] "
;"
```

Output Parameters

ShelfAid Shelf Access Identifier. The address of the shelf where the timing is located which has an outstanding alarm. *ShelfAid* is the AID [ShelfAid](#).

AIDTYPE AID Type. This parameter identifies the type of entity which the alarm is associated with. *AIDTYPE* is of type [AIDType](#).

NTFCNCDE Notification Code. This parameter indicates the notification code associated with the alarm condition. *NTFCNCDE* is of type [NotificationRtry](#).

CONDTYPE Condition Type. This parameter indicates the type of alarm condition. *CONDTYPE* is of type [CondTypeTmg](#).

SRVEFF Service Effect. This parameter identifies the effect on service caused by the alarm

condition. *SRVEFF* is of type [ServiceEffect](#).

- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-5,TMG:CR,SYNCPRI,SA,04-03,12-03-34:"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-VB

Name

RTRV-ALM-VB: Retrieve Alarm Virtual Bridge

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve the current status of its alarm conditions associated with Virtual Bridges within the C7.

Related Messages:

DLT-CVIDREG	DLT-IGMP-JOIN
DLT-MACHOST	DLT-VB
DLT-VBPORT	DLT-VLAN-VBPORT
DLT-VR	DLT-VRPORT
ED-CVIDREG	ED-IGMP
ED-MACHOST	ED-VB
ED-VBPORT	ED-VLAN-VBPORT
ED-VR	ENT-CVIDREG
ENT-IGMP-JOIN	ENT-MACHOST
ENT-VB	ENT-VBPORT
ENT-VLAN-VBPORT	ENT-VR

ENT-VRPORT	REPT ALM VB
REPT ALM VR	REPT EVT VB
REPT EVT VR	RTRV-ALM-VR
RTRV-CVIDREG	RTRV-IGMP
RTRV-IGMP-JOIN	RTRV-MACHOST
RTRV-VB	RTRV-VBPORT
RTRV-VLAN-VBPORT	RTRV-VR
RTRV-VRPORT	

Input Format

RTRV-ALM-
VB:[TID]:<VbAid>:[CTAG]::[<NTFCNCDE>], [<CONDTYPE>], [<SRVEFF>] ;

Input Parameters

- VbAid** *VbAid* is the AID [VirtualBridgeId1](#) and is listable and rangeable. *VbAid* must not be null.
- NTFCNCDE** *NTFCNCDE* is of type [NotificationAlm](#). A null value is equivalent to "ALL".
- CONDTYPE** *CONDTYPE* is of type [CondTypeVb](#). A null value is equivalent to "ALL".
- SRVEFF** *SRVEFF* is of type [ServiceEffect](#). A null value is equivalent to "ALL".

Input Example

RTRV-ALM-VB:SYS:N1-2-VB1:123::MN,LOS,SA;

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<VbAid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>]:,
[<OBSDBHVR>]"
;
```

Output Parameters

- VbAid** *VbAid* is the AID [VbAid](#).
- AIDTYPE** AID Type. This parameter identifies the type of entity which the alarm is associated with. *AIDTYPE* is of type [AIDType](#).
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the alarm condition. *NTFCNCDE* is of type [NotificationAlm](#).
- CONDTYPE** Condition Type. This parameter indicates the type of alarm condition. *CONDTYPE* is of type [CondTypeVb](#).
- SRVEFF** Service Effect. This parameter identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#).

- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.
- OBSDBHVR** Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. *OBSDBHVR* is a String. *OBSDBHVR* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-2-VB1,VB:MN,LOS,SA,04-03,12-03-34:,,\"ERROR 0X02540000\""
;"
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-VCG

Name

RTRV-ALM-VCG: Retrieve Alarm Voice Concentration Group

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with VCG entities within the C7. The command may be used to retrieve C7 information, which in turn may be used to update an OS database when it is suspected that autonomous alarm messages issued by the C7 using REPT ALM PP (Report Alarm Pseudo-Port) were not received or properly processed. It may also be used to evaluate the system before or after maintenance operations. The alarm conditions to be retrieved can be specified by using the input parameters as the filter, i.e., existing conditions satisfying all the specified input parameters will be reported in the message response.

Defined in GR-833.

Related Messages:

[DLT-AVO](#)
[DLT-IG-VDS1](#)
[DLT-PROF-ONT](#)
[DLT-VCG](#)

[DLT-GOS-ONT](#)
[DLT-ONT](#)
[DLT-RFVID](#)
[DLT-VRP](#)

ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV ONT	REPT RMV RFVID
REPT RST AVO	REPT RST ONT
REPT RST RFVID	RMV-AVO
RMV-ONT	RMV-RFVID
RST-AVO	RST-ONT
RST-RFVID	RTRV-ALM-AVO
RTRV-ALM-ONT	RTRV-ALM-RFVID
RTRV-ALM-VRP	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

RTRV-ALM-
VCG: [TID] :< IgAid > : [CTAG] :: [< NTFCNCDE >] , [< CONDTYPE >] , [< SRVEFF >] ;

Input Parameters

- IgAid** The AID of the target VCG(s). *IgAid* is the AID [IgRngAid](#) and is listable and rangeable. *IgAid* must not be null.
- NTFCNCDE** Notification Code. This parameter is used to filter the response based on the notification code associated with the alarm conditions. *NTFCNCDE* is of type [NotificationAlm](#). A null value is equivalent to "ALL".
- CONDTYPE** Condition Type. This parameter is used to filter the response based on the Condition Type of the alarm, where a Condition Type is the type of alarm condition. *CONDTYPE* is of type [CondTypeVcg](#). A null value is equivalent to "ALL".

SRVEFF Service Effect. This parameter is used to filter the response based on the Service Effect of the alarm, where Service Effect identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-VCG:SYS:N2-4-IG3:123::MN,TRAFTHR,SA;
```

Output Format

SID DATE TIME
M CTAG COMPLD
"<IgAid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>]"
;

Output Parameters

IgAid The AID of the VCG. *IgAid* is the AID [IgAid](#).

AIDTYPE AID Type. This parameter identifies the type of entity which the alarm is associated with. *AIDTYPE* is of type [AIDType](#).

NTFCNCDE Notification Code. This parameter indicates the notification code associated with the alarm condition. *NTFCNCDE* is of type [NotificationAlm](#).

CONDTYPE Condition Type. This parameter indicates the type of alarm condition. *CONDTYPE* is of type [CondTypeVcg](#).

SRVEFF Service Effect. This parameter identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#).

OCRDAT Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.

OCRTM Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.

Output Example

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N2-4-IG3,VCG:MN,TRAFTHR,SA,04-03,12-03-34"
;

Errors

This message generates all of the [Default Errors](#).

RTRV-ALM-VR

Name

RTRV-ALM-VR: Retrieve Alarm Virtual Router

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve the current status of its alarm conditions associated with Virtual Routers within the C7.

Related Messages:

DLT-CVIDREG	DLT-IGMP-JOIN
DLT-MACHOST	DLT-VB
DLT-VBPORT	DLT-VLAN-VBPORT
DLT-VR	DLT-VRPORT
ED-CVIDREG	ED-IGMP
ED-MACHOST	ED-VB
ED-VBPORT	ED-VLAN-VBPORT
ED-VR	ENT-CVIDREG
ENT-IGMP-JOIN	ENT-MACHOST
ENT-VB	ENT-VBPORT
ENT-VLAN-VBPORT	ENT-VR
ENT-VRPORT	REPT ALM VB
REPT ALM VR	REPT EVT VB
REPT EVT VR	RTRV-ALM-VB
RTRV-CVIDREG	RTRV-IGMP
RTRV-IGMP-JOIN	RTRV-MACHOST
RTRV-VB	RTRV-VBPORT
RTRV-VLAN-VBPORT	RTRV-VR
RTRV-VRPORT	

Input Format

```
RTRV-ALM-
VR:[TID]:<VrAid>:[CTAG]::[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>];
```

Input Parameters

VrAid *VrAid* is the AID [VirtualRouterId](#) and is listable and rangeable. *VrAid* must not be null.

NTFCNCDE *NTFCNCDE* is of type [NotificationAlm](#). A null value is equivalent to "ALL".

CONDTYPE *CONDTYPE* is of type [CondTypeVr](#). A null value is equivalent to "ALL".

SRVEFF *SRVEFF* is of type [ServiceEffect](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-VR :SYS:N1-2-VR1:123::MN,LOS,SA;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<VrAid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>]"
;"
```

Output Parameters

VrAid *VrAid* is the AID [VrAid](#).

AIDTYPE AID Type. This parameter identifies the type of entity which the alarm is associated with. *AIDTYPE* is of type [AIDType](#).

NTFCNCDE Notification Code. This parameter indicates the notification code associated with the alarm condition. *NTFCNCDE* is of type [NotificationAlm](#).

CONDTYPE Condition Type. This parameter indicates the type of alarm condition. *CONDTYPE* is of type [CondTypeVr](#).

SRVEFF Service Effect. This parameter identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#).

OCRDAT Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.

OCRTM Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-2-VR1,VR:MN,LOS,SA,04-03,12-03-34"
;"
```

Errors

This message generates all of the [Default Errors](#).

Name

RTRV-ALM-VRP: Retrieve Alarm Video Return Path

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to retrieve and send the current status of its alarm conditions associated with Video Return Path within the C7. The command may be used to retrieve C7 information, which in turn may be used to update an OS database when it is suspected that autonomous alarm messages issued by the C7 using REPT ALM VRP (Report Alarm Video Return Path) were not received or properly processed. It may also be used to evaluate the system before or after maintenance operations. The alarm conditions to be retrieved can be specified by using the input parameters as the filter, i.e., existing conditions satisfying all the specified input parameters will be reported in the message response.

Defined in GR-833.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV ONT	REPT RMV RFVID
REPT RST AVO	REPT RST ONT
REPT RST RFVID	RMV-AVO
RMV-ONT	RMV-RFVID
RST-AVO	RST-ONT
RST-RFVID	RTRV-ALM-AVO
RTRV-ALM-ONT	RTRV-ALM-RFVID
RTRV-ALM-VCG	RTRV-AVO
RTRV-COND-ONT	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT

[RTRV-IG-VDS1](#)
[RTRV-ONT-UA](#)
[RTRV-PROF-ONT](#)
[RTRV-STAT-HPNA](#)
[RTRV-VCG](#)
[RTRV-VRP](#)

[RTRV-ONT](#)
[RTRV-PM-ONT](#)
[RTRV-RFVID](#)
[RTRV-STAT-RFR](#)
[RTRV-VDS1](#)
[TST-ONT-MET](#)

Input Format

```
RTRV-ALM-
VRP:[TID]:<VrpAid>:[CTAG]::[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>];
```

Input Parameters

- VrpAid** Video Return Path Access Identifier *VrpAid* is the AID [VrpNtwkRngAid](#) and is listable and rangeable. *VrpAid* must not be null.
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the alarm condition. *NTFCNCDE* is of type [NotificationAlm](#). A null value is equivalent to "ALL".
- CONDTYPE** Condition Type. This parameter is used to filter the response based on the Condition Type of the alarm, where a Condition Type is the type of alarm condition. *CONDTYPE* is of type [CondTypeVrp](#). A null value is equivalent to "ALL".
- SRVEFF** Service Effect. This parameter is used to filter the response based on the Service Effect of the alarm, where Service Effect identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-ALM-VRP:SYS1:N6-3-11-1-22-VRP:555::MN,FREQMISMATCH,SA;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<VrpAid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>]"
;"
```

Output Parameters

- VrpAid** Video Return Path Access Identifier *VrpAid* is the AID [VrpAid](#).
- AIDTYPE** AID Type. This parameter identifies the type of entity which the alarm is associated with. *AIDTYPE* is of type [AIDType](#).
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the alarm condition. *NTFCNCDE* is of type [NotificationAlm](#).
- CONDTYPE** Condition Type. This parameter is used to filter the response based on the Condition

Type of the alarm, where a Condition Type is the type of alarm condition. *CONDTYPE* is of type [CondTypeVrp](#).

SRVEFF Service Effect. This parameter identifies the effect on service caused by the alarm condition. *SRVEFF* is of type [ServiceEffect](#).

OCRDAT Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.

OCRTM Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N6-3-11-1-22-VRP,VRP:MN,FREQMISMATCH,SA,04-03,12-03-34"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-AP

Name

RTRV-AP: Retrieve AP

Description

Category: IMA Group

Security: Memory Admin - read

No Comment Defined.

Related Messages:

[DLT-AP](#)

[DLT-AP-T1](#)

[DLT-GOS-AP](#)

[DLT-GOS-IMA](#)

[DLT-GOS-IMALINK](#)

[DLT-IMA](#)

[DLT-IMA-PORT](#)

[ED-AP](#)

[ED-GOS-AP](#)

[ED-GOS-IMA](#)

[ED-GOS-IMALINK](#)

[ED-IMA](#)

[ENT-AP](#)

[ENT-AP-T1](#)

[ENT-GOS-AP](#)

[ENT-GOS-IMA](#)

ENT-GOS-IMALINK	ENT-IMA
ENT-IMA-PORT	INIT-REG-AP
INIT-REG-IMA	INIT-REG-IMALINK
REPT ALM AP	REPT ALM IMA
REPT ALM IMALINK	REPT EVT AP
REPT EVT IMA	REPT EVT IMALINK
REPT RMV AP	REPT RST AP
RMV-AP	RMV-IMA
RST-AP	RST-IMA
RTRV-ALM-AP	RTRV-ALM-IMA
RTRV-ALM-IMALINK	RTRV-COND-AP
RTRV-COND-IMA	RTRV-GOS-AP
RTRV-GOS-IMA	RTRV-GOS-IMALINK
RTRV-IMA	RTRV-PM-AP
RTRV-PM-IMA	RTRV-PM-IMALINK

Input Format

```
RTRV-AP:[TID]:<ApRngAid>:[CTAG];
```

Input Parameters

ApRngAid *ApRngAid* is the AID [T1Id](#) and is listable and rangeable. *ApRngAid* must not be null.

Input Example

```
RTRV-AP:SYS3:N1-3-5-AP16:555;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<ApAid>:[<PLOCN>:[[ATMMAP=<ATMMAP>,][PYLDSCRM=<PYLDSCRM>,]
[ATMMON=<ATMMON>],[PDOM=<PDOM>],[IMATXLINKID=<IMATXLINKID>,
[IMARXLINKID=<IMARXLINKID>],[GOS=<GOS>],[DESC=<DESC>]]:[<PST>],[<SST>]"";
"
```

Output Parameters

ApAid	<i>ApAid</i> is the AID AtmRscPortAid .
PLOCN	<i>PLOCN</i> is the AID TwelvePortLuAid . <i>PLOCN</i> is optional.
ATMMAP	<i>ATMMAP</i> is of type AtmMap . <i>ATMMAP</i> is optional.
PYLDSCRM	<i>PYLDSCRM</i> is of type BoolYN . <i>PYLDSCRM</i> is optional.
ATMMON	<i>ATMMON</i> is of type BoolYN . <i>ATMMON</i> is optional.

PDOM	<i>PDOM</i> is of type Pdom . <i>PDOM</i> is optional.
IMATXLINKID	<i>IMATXLINKID</i> is a Integer. <i>IMATXLINKID</i> is optional.
IMARXLINKID	<i>IMARXLINKID</i> is a Integer. <i>IMARXLINKID</i> is optional.
GOS	<i>GOS</i> is the AID GosAid . <i>GOS</i> is optional.
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String. <i>DESC</i> is optional.
PST	<i>PST</i> is of type PrimaryState . <i>PST</i> is optional.
SST	<i>SST</i> is of type SecondaryState and is listable. <i>SST</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-3-2-
AP16:PLOCN:ATMMAP=IMA,PYLDSCRM=N,ATMMON=Y,PDOM=1,IMATXLINKID=1,
IMARXLINKID=1,GOS=OFF,DESC=\DESCRIPTION\":OOS-AU,SGEO"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ARP

Name

RTRV-ARP: Retrieve ARP

Description

Category: IP **Security:** Memory Admin - read

Retrieve Address Resolution Protocol.

Related Messages:

DLT-DHCP-OUI	DLT-IP-IF
DLT-IP-ROUTE	DLT-IPIF-PORT
DLT-SUBIF-BINDING	DLT-VID-CHAN
DLT-VID-IRCLOC	DLT-VID-SUB
DLT-VID-SVC	DLT-VODCLNT
DLT-VODDSTLU	DLT-VODFLOW

DLT-VODSRCLU	DLT-VODSVR
ED-ARP	ED-IPIF-PORT
ED-VID-CHAN	ED-VID-SUB
ED-VID-SVC	ED-VODDSTLU
ENT-DHCP-OUI	ENT-IP-IF
ENT-IP-ROUTE	ENT-IPIF-PORT
ENT-SUBIF-BINDING	ENT-VID-CHAN
ENT-VID-IRCLOC	ENT-VID-SUB
ENT-VID-SVC	ENT-VODDSTLU
REPT EVT VODFLOW	RTRV-DHCP-LEASE
RTRV-DHCP-OUI	RTRV-IP-IF
RTRV-IP-ROUTE	RTRV-IPIF-PORT
RTRV-SUBIF-BINDING	RTRV-VID-CHAN
RTRV-VID-IRCLOC	RTRV-VID-SUB
RTRV-VID-SVC	RTRV-VODCLNT
RTRV-VODDSTLU	RTRV-VODFLOW
RTRV-VODSRCLU	RTRV-VODSVR

Input Format

```
RTRV-ARP : [ TID ] : <RTRAID> : [ CTAG ] ;
```

Input Parameters

RTRAID *RTRAID* is the AID [RouterAid](#). *RTRAID* must not be null.

Input Example

```
RTRV-ARP : :N1-2-VR2:32 ;
```

Output Format

```
    SID DATE TIME
M    CTAG COMPLD
    "<RTRAID>::[ AGE=<AGE> ] "
;
```

Output Parameters

RTRAID *RTRAID* is the AID [RouterAid](#).

AGE ARP age time in seconds. Allow user to adjust ARP aging of routes. *AGE* is of type [ArpAgeRange](#). *AGE* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "N1-2-VR2::AGE=58"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ATTR-CONT

Name

RTRV-ATTR-CONT: Retrieve Attribute Control

Description

Category: Environment **Security:** Maintenance - read

This command instructs the C7 to send the attributes associated with an external control. These attributes are used when an external control is operated or released.

Defined in GR-833.

Related Messages:

OPR-EXT-CONT	REPT ALM ENV
REPT EVT CONT	RLS-EXT-CONT
RTRV-ALM-ENV	RTRV-ATTR-ENV
RTRV-COND-ENV	RTRV-EXT-CONT
SET-ATTR-CONT	SET-ATTR-ENV

Input Format

```
RTRV-ATTR-CONT:[TID]:<ExtContAid>:[CTAG];
```

Input Parameters

ExtContAid External Control Access Identifier. The address of the external control for which attributes are to be retrieved. *ExtContAid* is the AID [ExtControlRngAid](#) and is listable and rangeable. *ExtContAid* must not be null.

Input Example

RTRV-ATTR-CONT:SYS1:N3-EXT2:CTAG;

Output Format

```
SID DATE TIME
M CTAG COMPLD
  "<ExtContAid>:<CONTTYPE>,<POL>"
;
```

Output Parameters

ExtContAid External Control Access Identifier. The address of the external control for which attributes are to be retrieved. *ExtContAid* is the AID [ExtControlAid](#).

CONTTYPE Control Type. This parameter indicates the type of control for which an attribute is being retrieved. *CONTTYPE* is of type [ContType](#).

POL Polarity. This parameter indicates whether the OPR-EXT-CONT command closes the control or opens it. If parameter is not entered, then value is not changed. The initial value is OPRISCLOSED. *POL* is of type [ContPolarity](#).

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "N3-EXT2:FAN,OPRISOPEN"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ATTR-ENV

Name

RTRV-ATTR-ENV: Retrieve Attribute Environment

Description

Category: Environment **Security:** Maintenance - read

This command requests the C7 to send the attributes associated with an environmental alarm. These attributes are included when an environmental alarm is reported or retrieved.

Defined in GR-833.

Related Messages:

[OPR-EXT-CONT](#)
[REPT EVT CONT](#)
[RTRV-ALM-ENV](#)
[RTRV-COND-ENV](#)
[SET-ATTR-CONT](#)

[REPT ALM ENV](#)
[RLS-EXT-CONT](#)
[RTRV-ATTR-CONT](#)
[RTRV-EXT-CONT](#)
[SET-ATTR-ENV](#)

Input Format

```
RTRV-ATTR-ENV: [ TID ] : <EnvAid> : [ CTAG ] ;
```

Input Parameters

EnvAid Environmental Access Identifier. The address of the environmental input contact for which attributes are to be retrieved. *EnvAid* is the AID [EnvRngAid](#) and is listable and rangeable. *EnvAid* must not be null.

Input Example

```
RTRV-ATTR-ENV: SYS3:N3-ENV2:3 ;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
" <EnvAid> : <NTFCNCDE> , <ALMTYPE> , <ALMMSG> , <POL> "
;
```

Output Parameters

EnvAid Environmental Access Identifier. The address of the environmental input contact for which attributes are to be retrieved. *EnvAid* is the AID [EnvAid](#).

NTFCNCDE Notification Code. This parameter indicates the notification code associated with the condition. *NTFCNCDE* is of type [NotificationRtry](#).

ALMTYPE Alarm Type. This parameter identifies the type of alarm. *ALMTYPE* is of type [CondTypeEnvAlm](#).

ALMMSG Alarm Message. This parameter is a textual description of the alarm. *ALMMSG* is a String.

POL Polarity. This parameter indicates if the status points are normally open or normally closed. *POL* is of type [EnvPolarity](#).

Output Example

```
TID-000 98-06-20 14-30-00
```

```
M 001 COMPLD
"N3-ENV2:MJ,BATTERY,\\"BIG BATTERY\\",NORMCLOSED"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ATU

Name

RTRV-ATU: Retrieve ADSL Terminal Unit

Description

Category: ADSL Facility **Security:** Memory Admin - read

This command requests the C7 to retrieve the attributes associated with an ADSL Terminal Unit. The terminal unit could be at the central office and/or the remote.

Defined by Calix.

Input Format

```
RTRV-ATU:[TID]:<AtuAid>:[CTAG];
```

Input Parameters

AtuAid ADSL Terminal Unit Access Identifier. The address of the ATU from where the data is retrieved. *AtuAid* is the AID [TermUnitAid](#) and is listable. *AtuAid* must not be null.

Input Example

```
RTRV-ATU:SYS31:N4-3-3-2:323;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<AtuAid>:<ATULOCN>:[ [ VENDOR=<VENDOR>, ][ VERSION=<VERSION>, ][ CCODE=<CODE>, ]
[ PCODE=<PCODE>, ][ SERIAL=<SERIAL>, ][ CAP=<CAP> ] ]"
;
```

Output Parameters

- AtuAid** ADSL Terminal Unit Access Identifier. The address of the ATU from where the data is retrieved. *AtuAid* is the AID [TermUnitAid](#).
- ATULOCN** ADSL Terminal Unit Location. This parameter identifies the terminal unit which the data is retrieved. *ATULOCN* is of type [AtuLocn](#).
- VENDOR** Vendor Identifier. This parameter will return the vendor identifier of the ATU. In some service modes this information is not available, when not available a zero will be returned. *VENDOR* is a Integer. *VENDOR* is optional.
- VERSION** Version. This parameter will return the version number of the ATU. *VERSION* is a String. *VERSION* is optional.
- CODE** Country Code. This parameter identifies the country code associated with the ATU. This is only valid in multi-mode (g.994.1). *CODE* is a Integer. *CODE* is optional.
- PCODE** Provider Code. This parameter identifies the provider code when in multi-mode (g.994.1). *PCODE* is a Integer. *PCODE* is optional.
- SERIAL** Serial Number. This is the serial number of the ATU. *SERIAL* is a String. *SERIAL* is optional.
- CAP** Capability. This parameter identifies the capabilities which the ATU can provide. *CAP* is of type [AtuCap](#) and is listable. *CAP* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N4-3-3-2:ATU-
C:VENDOR=65535,VERSION=D57.1.9,CCODE=65535,PCODE=4294967295,
    SERIAL=THESERIALNUMBER,CAP=DPOS&T1413"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-AVO

Name

RTRV-AVO: Retrieve Analog Video Receiver Port

Description

Category: PON**Security:** Memory Admin - read

Retrieves parameters associated with a Analog Video Overlay facility. An ONT will have an AVO facility if and only if it has at least one RF Video (COAX) output port.

Defined by Calix.

Related Messages:

[DLT-AVO](#)

[DLT-IG-VDS1](#)

[DLT-PROF-ONT](#)

[DLT-VCG](#)

[ED-AVO](#)

[ED-ONT](#)

[ED-RFVID](#)

[ED-VRP](#)

[ENT-GOS-ONT](#)

[ENT-ONT](#)

[ENT-RFVID](#)

[ENT-VRP](#)

[INIT-REG-ONT](#)

[REPT ALM ONT](#)

[REPT ALM VCG](#)

[REPT EVT ONT](#)

[REPT RMV QNT](#)

[REPT RST AVO](#)

[REPT RST RFVID](#)

[RMV-ONT](#)

[RST-AVO](#)

[RST-RFVID](#)

[RTRV-ALM-ONT](#)

[RTRV-ALM-VCG](#)

[RTRV-COND-ONT](#)

[RTRV-COND-VRP](#)

[RTRV-IG-VDS1](#)

[RTRV-ONT-UA](#)

[RTRV-PROF-ONT](#)

[RTRV-STAT-HPNA](#)

[RTRV-VCG](#)

[RTRV-VRP](#)

[DLT-GOS-ONT](#)

[DLT-ONT](#)

[DLT-RFVID](#)

[DLT-VRP](#)

[ED-GOS-ONT](#)

[ED-PROF-ONT](#)

[ED-VCG](#)

[ENT-AVO](#)

[ENT-IG-VDS1](#)

[ENT-PROF-ONT](#)

[ENT-VCG](#)

[INIT-ONT-UA](#)

[REPT ALM AVO](#)

[REPT ALM RFVID](#)

[REPT ALM VRP](#)

[REPT RMV AVO](#)

[REPT RMV RFVID](#)

[REPT RST ONT](#)

[RMV-AVO](#)

[RMV-RFVID](#)

[RST-ONT](#)

[RTRV-ALM-AVO](#)

[RTRV-ALM-RFVID](#)

[RTRV-ALM-VRP](#)

[RTRV-COND-VCG](#)

[RTRV-GOS-ONT](#)

[RTRV-ONT](#)

[RTRV-PM-ONT](#)

[RTRV-RFVID](#)

[RTRV-STAT-RFR](#)

[RTRV-VDS1](#)

[TST-ONT-MET](#)

Input Format

RTRV-AVO : [TID] : <OntPortAid> : [CTAG] ;
--

Input Parameters

OntPortAid Analog Video Overlay Port Access Identifier. The address of the AVO port. (The ONT port number must be equal to 1.) *OntPortAid* is the AID [OntPortNtwkRngAid](#). *OntPortAid* must not be null.

Input Example

```
RTRV-AVO:SYS:N2-4-6-1-18-1:345;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD
"<OntPortAid>:: [ [ FREQRNGLOW=<FREQRNGLOW>, ] [ FREQRNGHIGH=<FREQRNGHIGH>, ]
[ OMI=<OMI>, ] [ OMISUPPORTED=<OMISUPPORTED>, ] [ DESC=<DESC> ] : [ <PST> ], [ <SST> ]
";

```

Output Parameters

OntPortAid	Analog Video Overlay Port Access Identifier. <i>OntPortAid</i> is the AID OntPortAid .
FREQRNGLOW	The lower of the possible two frequency ranges supported. <i>FREQRNGLOW</i> is of type AvoFreqRngLow . <i>FREQRNGLOW</i> is optional.
FREQRNGHIGH	The higher of the possible two frequency ranges supported. <i>FREQRNGHIGH</i> is of type AvoFreqRngHigh . <i>FREQRNGHIGH</i> is optional.
OMI	The per-channel Optical Modulation Index of the RF-Video content that is being carried in the Analog Video Overlay signal. This parameter is only applied to ONTs that return an OMI value during initialization. The value is a percentage, between 3.2 and 3.8 (%). <i>OMI</i> is a String. <i>OMI</i> is optional.
OMISUPPORTED	Optical Modulation Index Supported. This parameter indicates whether or not OMI is supported by the ONT. <i>OMISUPPORTED</i> is of type BoolYN . <i>OMISUPPORTED</i> is optional.
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String. <i>DESC</i> is optional.
PST	Primary Service State. This is the service state which the user wants the ADSL port to transition into. The port can be put into service or out of service with the ED-AVO command. <i>PST</i> is of type PrimaryState . <i>PST</i> is optional.
SST	Secondary Service State. This parameter provides additional state information that is relevant. <i>SST</i> is of type SecondaryState and is listable. <i>SST</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
```

```
M 001 COMPLD
  "N2-4-6-1-18-1::FREQRNGLOW=50-550 ,FREQRNGHIGH=550-
750 ,OMI=3.8 ,
    OMISUPPORTED=N,DESC=\ "DESCRIPTION\ ":"IS-NR,ADA"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-BAR

Name

RTRV-BAR: Retrieve BAR

Description

Category: System **Security:** Memory Admin - read

This command is used to retrieve the status of a BAR operation.

Related Messages:

ALW-STBY-UPGRD	DLT-ALM-SHELF
DLT-NODE	ED-DAT
ED-NODE	ED-SHELF
ED-SYS	ED-SYS-SECU
ENT-NODE	ENT-SHELF
INH-STBY-UPGRD	INIT-SYS
OPR-BAR	REPT ALM SHELF
REPT EVT MEM	REPT EVT SHELF
RTRV-ALM-SHELF	RTRV-COND-SHELF
RTRV-HDR	RTRV-NETYPE
RTRV-NODE	RTRV-SHELF
RTRV-SYS	RTRV-SYS-SECU

Input Format

```
RTRV-BAR:[TID]:<BarSessAid>:[CTAG];
```

Input Parameters

BarSessAid This AID refers to a BAR session that has been activated with the OPR-BAR command. *BarSessAid* is of type [BarSession](#). *BarSessAid* must not be null.

Input Example

```
RTRV-BAR::5:C123;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD

"<BarSessAid>::[ [ BARDB=<BARDB>, ] [ BARACT=<BARACT>, ] [ BARSTATE=<BARSTATE>, ]
    [ BARPERCENT=<BARPERCENT>, ] [ BARMESS=<BARMESS> ] ], [ <ERRMESS> ] "
;"
```

Output Parameters

BarSessAid	This AID refers to a BAR session that has been activated with the OPR-BAR command. <i>BarSessAid</i> is of type BarSession .
BARDB	Access ID of the shelf or specific database upon which the BAR operation has been performed. <i>BARDB</i> is the AID ShelfOrSlotAid . <i>BARDB</i> is optional.
BARACT	BAR Activity Type. <i>BARACT</i> is of type BaRActivity . <i>BARACT</i> is optional.
BARSTATE	State of the BAR operation. <i>BARSTATE</i> is of type BARState . <i>BARSTATE</i> is optional.
BARPERCENT	BAR Percent Complete. This indicates what percentage of the BAR operation is complete. <i>BARPERCENT</i> is a Integer. <i>BARPERCENT</i> is optional.
BARMESS	BAR Message. This is a text message explaining the status of the BAR operation. <i>BARMESS</i> is a String. <i>BARMESS</i> is optional.
ERRMESS	Error Message. This field provides additional information when an error condition occurs during a BAR operation. <i>ERRMESS</i> is a String. <i>ERRMESS</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"5::BARDB=N1-1-
CSA,BARACT=EXTRACT,BARSTATE=INPROGRESS,BARPERCENT=60,
    BARMESS=\\"BAR OPERATION FAILED\\",
    ERRMESS=\\"CANNOT CONNECT TO FTP SERVER\\""
;"
```

Errors

This message generates all of the [Default Errors](#).

RTRV-BW-PROV

Name

RTRV-BW-PROV: Retrieve Bandwidth Provisioning

Description

Category: Bandwidth Management

Security: Memory Admin - read

This command is used to retrieve information about provisioned bandwidth usage in the C7 system. These values can be used as an aid in traffic management to ensure there is sufficient bandwidth available for future services, as well to help monitor the oversubscription of UBR bandwidth.

This information can be retrieved on a card (towards the backplane) or facility.

Defined by Calix.

Related Messages:

[DLT-BWC](#)
[ENT-BWC](#)

[ED-BWC](#)
[RTRV-BWC](#)

Input Format

```
RTRV-BW-PROV:[TID]:<EpAid>:[CTAG];
```

Input Parameters

EpAid Endpoint Access Identifier. This identifies the entity for which provisioned bandwidth information is to be retrieved. *EpAid* is the AID [EpRngAid](#). *EpAid* must not be null.

Input Example

```
RTRV-BW-PROV:SYS3:N1-2-3-4:123;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD
"<EpAid>::[[ TXCAP=<TXCAP>, ][ RXCAP=<RXCAP>, ][ TXUSED=<TXUSED>, ]
[ RXUSED=<RXUSED>, ][ TXRES=<TXRES>, ][ RXRES=<RXRES>, ]
[ TXUNRESUSED=<TXUNRESUSED>, ][ RXUNRESUSED=<RXUNRESUSED>, ]
[ MTXUBRAVAIL=<MTXUBRAVAIL>, ][ XTXUBRAVAIL=<XTXUBRAVAIL>, ]
[ MRXUBRAVAIL=<MRXUBRAVAIL>, ][ XRXUBRAVAIL=<XRXUBRAVAIL>, ]

[ UBRVCCNT=<UBRVCCNT>, ][ UBRVPCNT=<UBRVPCNT>, ][ XCONNCCNT=<XCONNCCNT> ] ] "
;
```

Output Parameters

EpAid	This identifies a slot, port or STS facility. <i>EpAid</i> is the AID EpAid .
TXCAP	Transmit Capacity. This parameter indicates the total capacity of the entity in the transmit direction in kbits/s. <i>TXCAP</i> is a Integer. <i>TXCAP</i> is optional.
RXCAP	Receive Capacity. This parameter indicates the total capacity of the entity in the receive direction in kbits/s. <i>RXCAP</i> is a Integer. <i>RXCAP</i> is optional.
TXUSED	Transmit Used. This parameter indicates the amount of bandwidth that has been used in the transmit direction in kbits/s. <i>TXUSED</i> is a Integer. <i>TXUSED</i> is optional.
RXUSED	Receive Used. This parameter indicates the amount of bandwidth that has been used in the receive direction in kbits/s. <i>RXUSED</i> is a Integer. <i>RXUSED</i> is optional.
TXRES	Transmit Reserved. This parameter indicates the amount of bandwidth that has been reserved in the transmit direction in kbits/s by Link Bandwidth Constraints (ENT-BWC-LINK). <i>TXRES</i> is a Integer. <i>TXRES</i> is optional.
RXRES	Receive Reserved. This parameter indicates the amount of bandwidth that has been reserved in the receive direction in kbits/s by Link Bandwidth Constraints (ENT-BWC-LINK). <i>RXRES</i> is a Integer. <i>RXRES</i> is optional.
TXUNRESUSED	Transmit Unreserved Used. This parameter indicates the amount of bandwidth that has been used in the transmit direction in kbits/s from the pool of bandwidth that has not been reserved using a Link Bandwidth Constraint (ENT-BWC-LINK). <i>TXUNRESUSED</i> is a Integer. <i>TXUNRESUSED</i> is optional.
RXUNRESUSED	Receive Unreserved Used. This parameter indicates the amount of bandwidth that has been used in the receive direction in kbits/s from the pool of bandwidth that has not been reserved using a Link Bandwidth Constraint (ENT-BWC-LINK). <i>RXUNRESUSED</i> is a Integer. <i>RXUNRESUSED</i> is optional.
MTXUBRAVAIL	Minimum Transmit UBR Available. This parameter indicates the minimum amount of bandwidth available for UBR cross-connects in the transmit direction in kbits/s. <i>MTXUBRAVAIL</i> is a Integer. <i>MTXUBRAVAIL</i> is optional.
XTXUBRAVAIL	Maximum Transmit UBR Available. This parameter indicates the maximum amount of bandwidth available for UBR cross-connects in the transmit direction in kbits/s. <i>XTXUBRAVAIL</i> is a Integer. <i>XTXUBRAVAIL</i> is optional.
MRXUBRAVAIL	Minimum Receive UBR Available. This parameter indicates the minimum amount of bandwidth available for UBR cross-connects in the receive direction in kbits/s. <i>MRXUBRAVAIL</i> is a Integer. <i>MRXUBRAVAIL</i> is optional.
XRXUBRAVAIL	Maximum Receive UBR Available. This parameter indicates the maximum amount of bandwidth available for UBR cross-connects in the receive direction in kbits/s. <i>XRXUBRAVAIL</i> is a Integer. <i>XRXUBRAVAIL</i> is optional.
UBRVCCNT	UBR VC Count. This parameter indicates the count of VC cross-connects on the specified entity. <i>UBRVCCNT</i> is a Integer. <i>UBRVCCNT</i> is optional.
UBRVPCT	UBR VP Count. This parameter indicates the count of VP cross-connects on the specified entity. <i>UBRVPCT</i> is a Integer. <i>UBRVPCT</i> is optional.
XCONNCT	Cross-Connect Count. This parameter is the total number of cross-connects of all types on the specified entity. <i>XCONNCT</i> is a Integer. <i>XCONNCT</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-2-3-
4::TXCAP=1544,RXCAP=1544,TXUSED=500,RXUSED=500,TXRES=400,RXRES=400,
TXUNRESUSED=100,RXUNRESUSED=100,MTXUBRAVAIL=300,XTXUBRAVAIL=500,
MRXUBRAVAIL=300,XRXUBRAVAIL=500,UBRVCCNT=4,UBRVPCT=1,XCONNCT=8"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-BWC

Name

RTRV-BWC: Retrieve Bandwidth Constraint

Description

Category: Bandwidth Management **Security:** Memory Admin - read

A Bandwidth Constraint is a generic identifier that can be used to aid in traffic management in the C7. Bandwidth Constraints can be attached to transport links in the C7 network to reserve bandwidth based on a particular application.

Defined by Calix.

Related Messages:

[DLT-BWC](#)
[ENT-BWC](#)

[ED-BWC](#)
[RTRV-BW-PROV](#)

Input Format

```
RTRV-BWC:[TID]:<BwcAid>:[CTAG]:::[INTERNAL=<INTERNAL>];
```

Input Parameters

BwcAid Bandwidth Constraint Access Identifier. Identifies the Bandwidth Constraint to be operated upon. *BwcAid* is the AID [BwcRngAid](#) and is listable and rangeable. *BwcAid* must not be null.

INTERNAL *INTERNAL* is of type [BwcInternalTypes](#) and is listable. A null value is equivalent to "ALL".

Input Example

```
RTRV-BWC:SYS2:ALL:123:::INTERNAL=VIDSUB;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
  "<BwcAid>::[ [IG=<IG>, ] [DESC=<DESC>] ]"
;
```

Output Parameters

BwcAid *BwcAid* is the AID [BwcAid](#).

IG Interface Group AID. The interface group that is associated with the bandwidth constraint. *IG* is the AID [IgAid](#). *IG* is optional.

DESC DESCription. A user-settable description field, up to 31 characters. *DESC* is a String. *DESC* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "1::IG=N1-1-IG1 ,DESC="DESCRIPTION" "
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-BWCLINK

Name

RTRV-BWCLINK: Retrieve Link Bandwidth Constraint

Description

Category: Bandwidth Management

Security: Memory Admin - read

A Link Bandwidth Constraint is an association of a Bandwidth Constraint to a transport link in the C7 network. It is used to reserve bandwidth on the link for a specified application.

Defined by Calix.

Input Format

```
RTRV-BWCLINK : [ TID ] :<LinkBwcAid> : [ CTAG ] :: : [ INTERNAL=<INTERNAL> ] ;
```

Input Parameters

LinkBwcAid Link Bandwidth Constraint Access Identifier. Identifies the Link Bandwidth Constraint to be operated upon. *LinkBwcAid* is the AID [BwclinkId1](#) and is listable and rangeable. *LinkBwcAid* must not be null.

INTERNAL *INTERNAL* is of type [BwcInternalTypes](#) and is listable. A null value is equivalent to "ALL".

Input Example

```
RTRV-BWCLINK : SYS2:N1-2-3-4-BWC1:123 :: : INTERNAL=VIDSUB ;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<LinkBwcAid> :: [ RXLMT=<RXLMT>, ] [ RXNTFY=<RXNTFY>, ] [ TXLMT=<TXLMT>, ]
[ TXNTFY=<TXNTFY>, ] [ RXUSED=<RXUSED>, ] [ TXUSED=<TXUSED>, ] [ IG=<IG> ] "
;
```

Output Parameters

LinkBwcAid Link Bandwidth Constraint Access Identifier. Identifies the Link Bandwidth Constraint to be operated upon. *LinkBwcAid* is the AID [BwclinkId](#).

RXLMT Receive Limit. Bandwidth reserved for the constraint in the ingress or receive direction on the link in kbps. *RXLMT* is a Integer. *RXLMT* is optional.

RXNTFY Receive Notification Threshold. This parameter sets the percent threshold at which the RXBWNTFY condition is raised. This condition indicates that bandwidth usage for the constraint in the receive direction exceeds this value. If this is set to OFF, no condition is raised. *RXNTFY* is of type [BwcNtfyThrRange](#). *RXNTFY* is optional.

TXLMT Transmit Limit. Bandwidth reserved for the constraint in the egress or transmit direction on the link in kbps. *TXLMT* is a Integer. *TXLMT* is optional.

TXNTFY Transmit Notification Threshold. This parameter sets the percent threshold at which the TXBWNTFY condition is raised. This condition indicates that bandwidth usage for the constraint in the receive direction exceeds this value. If this is set to OFF, no condition is raised. *TXNTFY* is of type [BwcNtfyThrRange](#). *TXNTFY* is optional.

RXUSED	Receive Bandwidth Used. Current Bandwidth Usage in the receive direction in kbps. <i>RXUSED</i> is a Integer. <i>RXUSED</i> is optional.
TXUSED	Transmit Bandwidth Used. Current Bandwidth Usage in the transmit direction in kbps. <i>TXUSED</i> is a Integer. <i>TXUSED</i> is optional.
IG	If this Bandwidth Constraint ID is associated with an Interface Group (see ENT-VCGLINK) this parameter will display the Interface Group's AID. <i>IG</i> is the AID IgAid . <i>IG</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-2-3-4-
BWC1::RXLMT=1 , RXNTFY=2 , TXLMT=1 , TXNTFY=2 , RXUSED=4 , TXUSED=5 ,
IG=N1-1-IG2"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-<OCN>

Name

RTRV-COND-<OCN>: Retrieve Condition (OC12, OC3, OC48)

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to return the current standing condition and/or state associated with the OCn port.

Defined in GR-833.

Related Messages:

[DLT-<OCN>](#)
[DLT-GOS-<OCN>](#)
[ED-FFP-<OCN>](#)
[ENT-<OCN>](#)
[ENT-GOS-<OCN>](#)
[OPR-LPBK-<OCN>](#)

[DLT-FFP-<OCN>](#)
[ED-<OCN>](#)
[ED-GOS-<OCN>](#)
[ENT-FFP-<OCN>](#)
[INIT-REG-<OCN>](#)
[OPR-PROTNSTW-<OCN>](#)

REPT ALM <OCN>	REPT EVT <OCN>
REPT RMV <OCN>	REPT RST <OCN>
RLS-LPBK-<OCN>	RLS-PROTNSW-<OCN>
RMV-<OCN>	RST-<OCN>
RTRV-<OCN>	RTRV-ALM-<OCN>
RTRV-FFP-<OCN>	RTRV-GOS-<OCN>
RTRV-PM-<OCN>	

Input Format

```
RTRV-COND-<OCN>:[TID]:<OcNAid>:[CTAG];
```

Input Parameters

OcNAid OCn Port Access Identifier. The address of the OCn port for which conditions are being retrieved. *OcNAid* is the AID [FourPortLuAndRapRngAid](#) and is listable and rangeable. *OcNAid* must not be null.

Input Example

```
RTRV-COND-OC12:SYS8:N8-3-4-1:229;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<OcNAid>,[<AIDTYPE>]:[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],[<OCRDAT>],
[<OCRTM>],[<LOCN>],"
;
```

Output Parameters

OcNAid	OCn Port Access Identifier. The address of the OCn port for which conditions are being retrieved. <i>OcNAid</i> is the AID FourPortLuAndRapAid .
AIDTYPE	AID Type. This parameter identifies the type of entity which the condition is associated. <i>AIDTYPE</i> is of type AIDType . <i>AIDTYPE</i> is optional.
NTFCNCDE	Notification Code. This parameter indicates the notification code associated with the condition. <i>NTFCNCDE</i> is of type NotificationConds . <i>NTFCNCDE</i> is optional.
CONDTYPE	Condition Type. This parameter identifies the condition type which exists. <i>CONDTYPE</i> is of type CondTypeOcN . <i>CONDTYPE</i> is optional.
SRVEFF	Service Effect. This parameter identifies the effect on service caused by the condition. <i>SRVEFF</i> is of type ServiceEffect . <i>SRVEFF</i> is optional.
OCRDAT	Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. <i>OCRDAT</i> is a Date. <i>OCRDAT</i> is optional.
OCRTM	Occurrence Time. This parameter identifies the time when the triggered event occurred.

Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.

LOCN Location. This parameter identifies the location associated with the condition. *LOCN* is of type [Location](#). *LOCN* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N8-3-4-1,OC12:NA,LOS,NSA,01-03-99,12-12,NEND,,"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-<STSN>

Name

RTRV-COND-<STSN>: Retrieve Condition (STS1, STS12C, STS3C, STS48C)

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to return the current standing condition and/or state associated with the STS1.

Defined in GR-833.

Related Messages:

[DLT-<STSN>](#)
[DLT-GOS-<STSN>](#)
[ED-CRS-<STSN>](#)
[ENT-<STSN>](#)
[ENT-GOS-<STSN>](#)
[OPR-PROTNSW-<STSN>](#)
[REPT EVT <STSN>](#)
[REPT RST <STSN>](#)
[RMV-<STSN>](#)
[RTRV-<STSN>](#)
[RTRV-CRS-<STSN>](#)

[DLT-CRS-<STSN>](#)
[ED-<STSN>](#)
[ED-GOS-<STSN>](#)
[ENT-CRS-<STSN>](#)
[INIT-REG-<STSN>](#)
[REPT ALM <STSN>](#)
[REPT RMV <STSN>](#)
[RLS-PROTNSW-<STSN>](#)
[RST-<STSN>](#)
[RTRV-ALM-<STSN>](#)
[RTRV-GOS-<STSN>](#)

RTRV-PM-<STSN>

Input Format

```
RTRV-COND-<STSN>:[TID]:<StsAid>:[CTAG];
```

Input Parameters

StsAid STS Path Access Identifier. The address of the STS path for which conditions are being retrieved. *StsAid* is the AID [StsRngAid](#) and is listable and rangeable. *StsAid* must not be null.

Input Example

```
RTRV-COND-STS1:SYS3:N8-3-4-1-1:229;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<StsAid>,[<AIDTYPE>]:[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],[<OCRDAT>],
[<OCRTM>],[<LOCN>],"
;
```

Output Parameters

- StsAid** STS Path Access Identifier. The address of the STS path for which conditions are being retrieved. *StsAid* is the AID [StsAid](#).
- AIDTYPE** AID Type. This parameter identifies the type of entity which the condition is associated. *AIDTYPE* is of type [AIDType](#). *AIDTYPE* is optional.
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the condition. *NTFCNCDE* is of type [NotificationConds](#). *NTFCNCDE* is optional.
- CONDTYPE** Condition Type. This parameter identifies the condition type which exists. *CONDTYPE* is of type [CondTypeSts](#). *CONDTYPE* is optional.
- SRVEFF** Service Effect. This parameter identifies the effect on service caused by the condition. *SRVEFF* is of type [ServiceEffect](#). *SRVEFF* is optional.
- OCRDAT** Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the triggered event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.
- LOCN** Location. This parameter identifies the location associated with the condition. *LOCN* is of type [Location](#). *LOCN* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
```

```
M 001 COMPLD
"N8-3-4-1-1,STS1:MN,LOP-P,NSA,01-03-99,12-12,NEND, ,"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-ACO

Name

RTRV-COND-ACO: Retrieve Condition Alarm Cutoff

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to return the current standing condition and/or state associated with an alarm cutoff.

Defined in GR-833.

Related Messages:

[ALW-MSG-ALL](#)
[OPR-ACO](#)
[RTRV-ALM-ALL](#)

[INH-MSG-ALL](#)
[RTRV-ACO](#)
[SET-ACO](#)

Input Format

```
RTRV-COND-ACO: [ TID ] :<NodeAid> : [ CTAG ] ;
```

Input Parameters

NodeAid Alarm Cutoff Access Identifier. The address of the alarm cutoff for which conditions are being retrieved. *NodeAid* is the AID [NodeAid](#) and is listable. *NodeAid* must not be null.

Input Example

```
RTRV-COND-ACO:SYS3:N8:229 ;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<NodeAid>,[<AIDTYPE>]:[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],[<OCRDAT>],
[<OCRTM>],,,,"

;

```

Output Parameters

- NodeAid** Alarm Cutoff Access Identifier. The address of the alarm cutoff for which conditions are retrieved. *NodeAid* is the AID [NodeAid](#).
- AIDTYPE** AID Type. This parameter identifies the type of entity which the condition is associated. *AIDTYPE* is of type [AIDType](#). *AIDTYPE* is optional.
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the condition. *NTFCNCDE* is of type [NotificationConds](#). *NTFCNCDE* is optional.
- CONDTYPE** Condition Type. This parameter identifies the condition type which exists. *CONDTYPE* is of type [CondTypeAco](#). *CONDTYPE* is optional.
- SRVEFF** Service Effect. This parameter identifies the effect on service caused by the condition. *SRVEFF* is of type [ServiceEffect](#). *SRVEFF* is optional.
- OCRDAT** Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the triggered event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N8,ACO:CR,ACODELD,NSA,01-03-99,12-12,,,,"

;

```

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-ADSL

Name

RTRV-COND-ADSL: Retrieve Condition Asymmetric Digital Subscriber Line

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to return the current standing condition and/or state associated with an ADSL port.

Defined in GR-833.

Related Messages:

[DLT-ADSL](#)

[DLT-TMPLT-ADSL](#)

[ED-GOS-ADSL](#)

[ENT-GOS-ADSL](#)

[INIT-ADSL](#)

[INIT-REG-ADSL](#)

[REPT EVT ADSL](#)

[REPT RST ADSL](#)

[RST-ADSL](#)

[RTRV-ALM-ADSL](#)

[RTRV-GOS-ADSL](#)

[RTRV-TMPLT-ADSL](#)

[DLT-GOS-ADSL](#)

[ED-ADSL](#)

[ENT-ADSL](#)

[ENT-TMPLT-ADSL](#)

[INIT-PWR-ADSL](#)

[REPT ALM ADSL](#)

[REPT RMV ADSL](#)

[RMV-ADSL](#)

[RTRV-ADSL](#)

[RTRV-CSTAT-ADSL](#)

[RTRV-PM-ADSL](#)

Input Format

```
RTRV-COND-ADSL:[TID]:<AdslAid>:[CTAG];
```

Input Parameters

AdslAid ADSL Port Access Identifier. The address of the ADSL port for which conditions are being retrieved. *AdslAid* is the AID [TwentyFourPortLuRngAid](#) and is listable and rangeable. *AdslAid* must not be null.

Input Example

```
RTRV-COND-ADSL:SYS3:N8-3-4-2:229;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<AdslAid>,[<AIDTYPE>]:[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],[<OCRDAT>],
[<OCRTM>],[<LOCN>],"
;
```

Output Parameters

AdslAid	ADSL Port Access Identifier. The address of the ADSL port for which conditions are being retrieved. <i>AdslAid</i> is the AID TwentyFourPortLuAid .
AIDTYPE	AID Type. This parameter identifies the type of entity which the condition is associated. <i>AIDTYPE</i> is of type AIDType . <i>AIDTYPE</i> is optional.
NTFCNCDE	Notification Code. This parameter indicates the notification code associated with the condition. <i>NTFCNCDE</i> is of type NotificationConds . <i>NTFCNCDE</i> is optional.
CONDTYPE	Condition Type. This parameter identifies the condition type which exists. <i>CONDTYPE</i> is of type CondTypeDsl . <i>CONDTYPE</i> is optional.
SRVEFF	Service Effect. This parameter identifies the effect on service caused by the condition. <i>SRVEFF</i> is of type ServiceEffect . <i>SRVEFF</i> is optional.
OCRDAT	Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. <i>OCRDAT</i> is a Date. <i>OCRDAT</i> is optional.
OCRTM	Occurrence Time. This parameter identifies the time when the triggered event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time. <i>OCRTM</i> is optional.
LOCN	Location. This parameter identifies the location associated with the condition. <i>LOCN</i> is of type Location . <i>LOCN</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
; "N8-3-4-2,ADSL:MN,RFI,NSA,01-03-99,12-12,NEND, , "
```

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-AP

Name

RTRV-COND-AP: Retrieve Condition ATM Resource Port

Description

Category: Fault **Security:** Maintenance - read

No Comment Defined.

Related Messages:

DLT-AP	DLT-AP-T1
DLT-GOS-AP	DLT-GOS-IMA
DLT-GOS-IMALINK	DLT-IMA
DLT-IMA-PORT	ED-AP
ED-GOS-AP	ED-GOS-IMA
ED-GOS-IMALINK	ED-IMA
ENT-AP	ENT-AP-T1
ENT-GOS-AP	ENT-GOS-IMA
ENT-GOS-IMALINK	ENT-IMA
ENT-IMA-PORT	INIT-REG-AP
INIT-REG-IMA	INIT-REG-IMALINK
REPT ALM AP	REPT ALM IMA
REPT ALM IMALINK	REPT EVT AP
REPT EVT IMA	REPT EVT IMALINK
REPT RMV AP	REPT RST AP
RMV-AP	RMV-IMA
RST-AP	RST-IMA
RTRV-ALM-AP	RTRV-ALM-IMA
RTRV-ALM-IMALINK	RTRV-AP
RTRV-COND-IMA	RTRV-GOS-AP
RTRV-GOS-IMA	RTRV-GOS-IMALINK
RTRV-IMA	RTRV-PM-AP
RTRV-PM-IMA	RTRV-PM-IMALINK

Input Format

RTRV-COND-AP : [TID] : <ApAid> : [CTAG] ;

Input Parameters

ApAid *ApAid* is the AID [ApId](#) and is listable and rangeable. *ApAid* must not be null.

Input Example

RTRV-COND-AP : SYS3 : N3-4-2-AP1 : 229 ;

Output Format

SID	DATE	TIME
M	CTAG	COMPLD
"<ApAid>, [<AIDTYPE>] : [<NTFCNCDE>] , [<CONDTYPE>] , [<SRVEFF>] , [<OCRDAT>] , [<OCRTM>] , [<LOCN>] "		
;		

Output Parameters

ApAid	<i>ApAid</i> is the AID AtmRscPortAid .
AIDTYPE	<i>AIDTYPE</i> is of type AIDType . <i>AIDTYPE</i> is optional.
NTFCNCDE	<i>NTFCNCDE</i> is of type NotificationConds . <i>NTFCNCDE</i> is optional.
CONDTYPE	<i>CONDTYPE</i> is of type CondTypeAp . <i>CONDTYPE</i> is optional.
SRVEFF	<i>SRVEFF</i> is of type ServiceEffect . <i>SRVEFF</i> is optional.
OCRDAT	<i>OCRDAT</i> is a Date. <i>OCRDAT</i> is optional.
OCRTM	<i>OCRTM</i> is a Time. <i>OCRTM</i> is optional.
LOCN	<i>LOCN</i> is of type Location . <i>LOCN</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-4-2-AP1,AP:MN,COMMSLINKDOWN,NSA,04-03,12-03-34,NEND"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-BWCLINK

Name

RTRV-COND-BWCLINK: Retrieve Condition BWCLINK

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to return the current standing condition and/or state associated with a Link Bandwidth Constraint.

Defined in GR-833.

Input Format

```
RTRV-COND-BWCLINK : [ TID ] : <LinkBwcAid> : [ CTAG ] ;
```

Input Parameters

LinkBwcAid Access Identifier. The address of the Link Bandwidth Constraint for which conditions are being retrieved. *LinkBwcAid* is the AID [LinkBwcRngAid](#) and is listable and rangeable. *LinkBwcAid* must not be null.

Input Example

```
RTRV-COND-BWCLINK:SYS3:N3-4-2-1:229;
```

Output Format

```
    SID DATE TIME
M   CTAG COMPLD
"<LinkBwcAid> , [ <AIDTYPE> ] : [ <NTFCNCDE> ] , [ <CONDTYPE> ] , [ <SRVEFF> ] , [ <OCRDAT> ] ,
    [ <OCRTM> ] "
;
```

Output Parameters

LinkBwcAid Access Identifier. The address of the Link Bandwidth Constraint for which conditions are being retrieved. *LinkBwcAid* is the AID [LinkBwcAid](#).

AIDTYPE AID Type. This parameter identifies the type of entity which the condition is associated. *AIDTYPE* is of type [AIDType](#). *AIDTYPE* is optional.

NTFCNCDE Notification Code. This parameter indicates the notification code associated with the condition. *NTFCNCDE* is of type [NotificationConds](#). *NTFCNCDE* is optional.

CONDTYPE Condition Type. This parameter identifies the condition type which exists. *CONDTYPE* is of type [CondTypeBwcLink](#). *CONDTYPE* is optional.

SRVEFF Service Effect. This parameter identifies the effect on service caused by the condition. *SRVEFF* is of type [ServiceEffect](#). *SRVEFF* is optional.

OCRDAT Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.

OCRTM Occurrence Time. This parameter identifies the time when the triggered event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-4-2-1,BWCLINK:MJ,AIS-L,SA,04-03,12-03-34"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-EC1

Name

RTRV-COND-EC1: Retrieve Condition Electrical Carrier

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to return the current standing condition and/or state associated with an EC1 port.

Defined in GR-833.

Related Messages:

[DLT-EC1](#)
[ED-EC1](#)
[ENT-EC1](#)
[INIT-REG-EC1](#)
[REPT ALM EC1](#)
[REPT RMV EC1](#)
[RLS-LPBK-EC1](#)
[RST-EC1](#)
[RTRV-EC1](#)
[RTRV-PM-EC1](#)

[DLT-GOS-EC1](#)
[ED-GOS-EC1](#)
[ENT-GOS-EC1](#)
[OPR-LPBK-EC1](#)
[REPT EVT EC1](#)
[REPT RST EC1](#)
[RMV-EC1](#)
[RTRV-ALM-EC1](#)
[RTRV-GOS-EC1](#)

Input Format

```
RTRV-COND-EC1:[TID]:<Ec1Aid>:[CTAG];
```

Input Parameters

Ec1Aid Access Identifier. The address of the EC1 port for which conditions are being retrieved. *Ec1Aid* is the AID [TwelvePortLuRngAid](#) and is listable and rangeable. *Ec1Aid* must not be null.

Input Example

```
RTRV-COND-EC1:SYS3:N8-3-4-2:229;
```

Output Format

SID DATE TIME
M CTAG COMPLD
"<Ec1Aid>,[<AIDTYPE>]:[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],[<OCRDAT>],
[<OCRTM>],[<LOCN>],"
;

Output Parameters

- Ec1Aid** Access Identifier. The address of the EC1 port for which conditions are being retrieved.
Ec1Aid is the AID [TwelvePortLuAid](#).
- AIDTYPE** AID Type. This parameter identifies the type of entity which the condition is associated.
AIDTYPE is of type [AIDType](#). *AIDTYPE* is optional.
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the condition. *NTFCNCDE* is of type [NotificationConds](#). *NTFCNCDE* is optional.
- CONDTYPE** Condition Type. This parameter identifies the condition type which exists. *CONDTYPE* is of type [CondTypeOcN](#). *CONDTYPE* is optional.
- SRVEFF** Service Effect. This parameter identifies the effect on service caused by the condition.
SRVEFF is of type [ServiceEffect](#). *SRVEFF* is optional.
- OCRDAT** Occurrence Date. This parameter identifies the date when the triggered event occurred.
 Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the triggered event occurred.
 Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.
- LOCN** Location. This parameter identifies the location associated with a particular alarm. *LOCN* is of type [Location](#). *LOCN* is optional.

Output Example

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N8-3-4-2,EC1:MN,RFI,NSA,01-03-99,12-12,NEND,, "
;

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-ENV

Name

RTRV-COND-ENV: Retrieve Condition Environment

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to return the current standing condition and/or state associated with an environmental contact.

Defined in GR-833.

Related Messages:

[OPR-EXT-CONT](#)
[REPT EVT CONT](#)
[RTRV-ALM-ENV](#)
[RTRV-ATTR-ENV](#)
[SET-ATTR-CONT](#)

[REPT ALM ENV](#)
[RLS-EXT-CONT](#)
[RTRV-ATTR-CONT](#)
[RTRV-EXT-CONT](#)
[SET-ATTR-ENV](#)

Input Format

```
RTRV-COND-ENV: [ TID ] :<EnvAid> : [ CTAG ] ;
```

Input Parameters

EnvAid Environmental Access Identifier. The address of the environmental input contact for which conditions are being retrieved. *EnvAid* is the AID [EnvRngAid](#) and is listable and rangeable. *EnvAid* must not be null.

Input Example

```
RTRV-COND-ENV: SYS3:N8-ENV2:229 ;
```

Output Format

```
      SID DATE TIME
M    CTAG COMPLD
"<EnvAid>, [ <AIDTYPE> ] : [ <NTFCNCDE> ] , [ <CONDTYPE> ] , [ <SRVEFF> ] , [ <OCRDAT> ] ,
      [ <OCRTM> ] , , , "
;
```

Output Parameters

EnvAid Environmental Access Identifier. The address of the environmental input contact for which conditions are being retrieved. *EnvAid* is the AID [EnvAid](#).

AIDTYPE AID Type. This parameter identifies the type of entity which the condition is associated. *AIDTYPE* is of type [AIDType](#). *AIDTYPE* is optional.

NTFCNCDE Notification Code. This parameter indicates the notification code associated with the

condition. *NTFCNCDE* is of type [NotificationConds](#). *NTFCNCDE* is optional.

- CONDTYPE** Condition Type. This parameter identifies the condition type which exists. *CONDTYPE* is of type [CondTypeEnvAlm](#). *CONDTYPE* is optional.
- SRVEFF** Service Effect. This parameter identifies the effect on service caused by the condition. *SRVEFF* is of type [ServiceEffect](#). *SRVEFF* is optional.
- OCRDAT** Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the triggered event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N8-ENV2,ENV:MN,AIRCOND,NSA,01-03-99,12-12,,,,"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-EQPT

Name

RTRV-COND-EQPT: Retrieve Condition Equipment

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to return the current standing condition and/or state associated with the equipment.

Defined in GR-833.

Related Messages:

[ALW-Swdx-EQPT](#)
[ALW-Swtowkg-EQPT](#)
[ED-EQPT](#)
[INH-Swdx-EQPT](#)
[INH-Swtowkg-EQPT](#)

[ALW-Swtoprotn-EQPT](#)
[DLT-EQPT](#)
[ENT-EQPT](#)
[INH-Swtoprotn-EQPT](#)
[REPT ALM EQPT](#)

[REPT EVT EQPT](#)
[REPT RST EQPT](#)
[RST-EQPT](#)
[RTRV-EQPT](#)
[SW-TOPROTN-EQPT](#)

[REPT RMV EQPT](#)
[RMV-EQPT](#)
[RTRV-ALM-EQPT](#)
[SW-DX-EQPT](#)
[SW-TOWKG-EQPT](#)

Input Format

```
RTRV-COND-EQPT:[TID]:<EqptAid>:[CTAG];
```

Input Parameters

EqptAid Equipment Access Identifier. The address of the equipment for which conditions are being retrieved. *EqptAid* is the AID [EquipmentId1](#) and is listable and rangeable. *EqptAid* must not be null.

Input Example

```
RTRV-COND-EQPT:SYS3:N8-3-8:229;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD

"<EqptAid>,[<AIDTYPE>]:[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],[<OCRDAT>],
[<OCRTM>],,,"
;
```

Output Parameters

EqptAid Equipment Access Identifier. The address of the equipment for which conditions are being retrieved. *EqptAid* is the AID [EquipmentId](#).

AIDTYPE AID Type. This parameter identifies the type of entity which the condition is associated. *AIDTYPE* is of type [AIDType](#). *AIDTYPE* is optional.

NTFCNCDE Notification Code. This parameter indicates the notification code associated with the condition. *NTFCNCDE* is of type [NotificationConds](#). *NTFCNCDE* is optional.

CONDTYPE Condition Type. This parameter identifies the condition type which exists. *CONDTYPE* is of type [CondTypeEqpt](#). *CONDTYPE* is optional.

SRVEFF Service Effect. This parameter identifies the effect on service caused by the condition. *SRVEFF* is of type [ServiceEffect](#). *SRVEFF* is optional.

OCRDAT Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.

OCRTM Occurrence Time. This parameter identifies the time when the triggered event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N8-2,EQPT:MN,EQPT,NSA,01-03-99,12-12,,,,"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-ETH

Name

RTRV-COND-ETH: Retrieve Condition ETH

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to return the current standing condition and/or state associated with an Ethernet port.

Defined in GR-833.

Related Messages:

DLT-AGG	DLT-AGG-ACL
DLT-AGG-PORT	DLT-ETH
DLT-ETH-ACL	DLT-GOS-ETH
DLT-LSWITCH	DLT-LSWITCH-PORT
DLT-PROF-ETH	DLT-VLAN
DLT-VLAN-PORT	DLT-VLAN-VBPORT
ED-ETH	ED-GOS-ETH
ED-VLAN	ED-VLAN-PORT
ED-VLAN-VBPORT	ENT-AGG
ENT-AGG-ACL	ENT-AGG-PORT
ENT-ETH	ENT-ETH-ACL
ENT-GOS-ETH	ENT-LSWITCH
ENT-LSWITCH-PORT	ENT-PROF-ETH
ENT-VLAN	ENT-VLAN-PORT
ENT-VLAN-VBPORT	INIT-LSWITCH

INIT-STAT-ETH	REPT ALM ETH
REPT EVT ETH	REPT RMV ETH
REPT RST ETH	RMV-ETH
RST-ETH	RTRV-AGG
RTRV-AGG-ACL	RTRV-AGG-PORT
RTRV-ALM-ETH	RTRV-ETH
RTRV-ETH-ACL	RTRV-GOS-ETH
RTRV-LSWITCH	RTRV-LSWITCH-PORT
RTRV-PM-ETH	RTRV-PROF-ETH
RTRV-STAT-ETH	RTRV-VLAN
RTRV-VLAN-PORT	RTRV-VLAN-VBPORT

Input Format

RTRV-COND-ETH:[TID]:<EthAid>:[CTAG];

Input Parameters

EthAid Ethernet Access Identifier. *EthAid* is the AID [TwelvePortLuRngAid](#) and is listable and rangeable. *EthAid* must not be null.

Input Example

RTRV-COND-ETH:SYS3:N3-4-2-1:229;

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<EthAid>,[<AIDTYPE>]:[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],[<OCRDAT>],
[<OCRTM>],[<LOCN>]"
;
```

Output Parameters

- EthAid** Ethernet Access Identifier. *EthAid* is the AID [TwelvePortLuAid](#).
- AIDTYPE** AID Type. This parameter identifies the type of entity which the alarm is associated with. *AIDTYPE* is of type [AIDType](#). *AIDTYPE* is optional.
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the condition. *NTFCNCDE* is of type [NotificationConds](#). *NTFCNCDE* is optional.
- CONDTYPE** Condition Type. This parameter identifies the condition type which exists. *CONDTYPE* is of type [CondTypeEth](#). *CONDTYPE* is optional.
- SRVEFF** Service Effect. This parameter identifies the effect on service caused by the condition. *SRVEFF* is of type [ServiceEffect](#). *SRVEFF* is optional.

- OCRDAT** Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the triggered event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.
- LOCN** *LOCN* is of type [Location](#). *LOCN* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-4-2-1,ETH:MJ,AIS-L,SA,04-03,12-03-34,NEND"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-GR303

Name

RTRV-COND-GR303: Retrieve Condition GR303

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to return the current standing condition and/or state associated with the GR-303 EOC/TMC data links.

Defined in GR-833.

Related Messages:

ALW-Swdx-GR303	ALW-Swdx-T1TG
DLT-CRS-T0	DLT-GR303
DLT-GR8	DLT-IG-DS1
DLT-T1TG	ED-GR303
ED-GR8	ENT-CRS-T0
ENT-GR303	ENT-GR8
ENT-IG-DS1	ENT-T1TG
INH-Swdx-GR303	INH-Swdx-T1TG
REPT ALM GR303	REPT ALM T1TG

[REPT EVT GR303](#)
[REPT SW GR303](#)
[RTRV-ALM-GR303](#)
[RTRV-COND-T1TG](#)
[RTRV-DLSTAT-GR303](#)
[RTRV-GR303](#)
[RTRV-IG-DS1](#)
[SW-DX-GR303](#)

[REPT EVT T1TG](#)
[REPT SW T1TG](#)
[RTRV-ALM-T1TG](#)
[RTRV-CRS-T0](#)
[RTRV-DLSTAT-T1TG](#)
[RTRV-GR8](#)
[RTRV-T1TG](#)
[SW-DX-T1TG](#)

Input Format

```
RTRV-COND-GR303:[TID]:<DataLinkSwAid>:[CTAG];
```

Input Parameters

DataLinkSwAid GR303 Data Links Access Identifier. The address of the GR303 EOC/TMC data links for which conditions are being retrieved. *DataLinkSwAid* is the AID [IgLinkSwRngAid](#) and is listable and rangeable. *DataLinkSwAid* must not be null.

Input Example

```
RTRV-COND-GR303:SYS3:N8-3-IG3-EOC:229;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<DataLinkSwAid>,[<AIDTYPE>]:[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],
    [<OCRDAT>],[<OCRTM>],,,"
;"
```

Output Parameters

DataLinkSwAid GR303 Data Links Access Identifier. The address of the GR303 EOC/TMC data links for which conditions are being retrieved. *DataLinkSwAid* is the AID [IgLinkSwAid](#).

AIDTYPE AID Type. This parameter identifies the type of entity which the condition is associated. *AIDTYPE* is of type [AIDType](#). *AIDTYPE* is optional.

NTFCNCDE Notification Code. This parameter indicates the notification code associated with the condition. *NTFCNCDE* is of type [NotificationConds](#). *NTFCNCDE* is optional.

CONDTYPE Condition Type. This parameter identifies the condition type which exists. *CONDTYPE* is of type [CondTypeLink](#). *CONDTYPE* is optional.

SRVEFF Service Effect. This parameter identifies the effect on service caused by the condition. *SRVEFF* is of type [ServiceEffect](#). *SRVEFF* is optional.

OCRDAT Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.

OCRTM Occurrence Time. This parameter identifies the time when the triggered event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
; "N8-3-IG3-EOC,GR303:MJ,EOCDUPLEX,NSA,01-03-99,12-12,,,,"
```

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-H248

Name

RTRV-COND-H248: Retrieve Condition H248

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to return the current standing condition and/or state associated with the H248 Concentration Group.

Defined in GR-833.

Related Messages:

[DLT-H248](#)
[DLT-VSP](#)
[ED-VSP](#)
[ENT-IG-VSP](#)
[REPT ALM H248](#)
[RTRV-H248](#)
[RTRV-VSP](#)

[DLT-IG-VSP](#)
[ED-H248](#)
[ENT-H248](#)
[ENT-VSP](#)
[RTRV-ALM-H248](#)
[RTRV-IG-VSP](#)

Input Format

```
RTRV-COND-H248:[TID]:<IgAid>:[CTAG];
```

Input Parameters

IgAid The AID of the target H248 IG. *IgAid* is the AID [IgRngAid](#) and is listable and rangeable. *IgAid* must not be null.

Input Example

```
RTRV-COND-H248:SYS:N3-1-IG2:345;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<IgAid>,[<AIDTYPE>]:[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],[<OCRDAT>],
[<OCRTM>]"
;
```

Output Parameters

IgAid The AID of the H248 IG. *IgAid* is the AID [IgAid](#).

AIDTYPE AID Type. This parameter identifies the type of entity which the condition is associated. *AIDTYPE* is of type [AIDType](#). *AIDTYPE* is optional.

NTFCNCDE Notification Code. This parameter indicates the notification code associated with the condition. *NTFCNCDE* is of type [NotificationConds](#). *NTFCNCDE* is optional.

CONDTYPE Condition Type. This parameter identifies the condition type which exists. *CONDTYPE* is of type [CondTypeH248](#). *CONDTYPE* is optional.

SRVEFF Service Effect. This parameter identifies the effect on service caused by the condition. *SRVEFF* is of type [ServiceEffect](#). *SRVEFF* is optional.

OCRDAT Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.

OCRTM Occurrence Time. This parameter identifies the time when the triggered event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-1-IG2,H248:MJ,CALLPROCLU,SA,3-22,14-36-12"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-HDSL

Name

RTRV-COND-HDSL: Retrieve Condition High bit rate Digital Subscriber Line

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to return the current standing condition and/or state associated with the HDSL port.

Defined in GR-833.

Related Messages:

[DLT-GOS-HDSL](#)

[ED-GOS-HDSL](#)

[ENT-GOS-HDSL](#)

[INIT-HDSL](#)

[OPR-LPBK-HDSL](#)

[REPT EVT HDSL](#)

[REPT RST HDSL](#)

[RMV-HDSL](#)

[RTRV-ALM-HDSL](#)

[RTRV-GOS-HDSL](#)

[RTRV-HTU](#)

[DLT-HDSL](#)

[ED-HDSL](#)

[ENT-HDSL](#)

[INIT-REG-HDSL](#)

[REPT ALM HDSL](#)

[REPT RMV HDSL](#)

[RLS-LPBK-HDSL](#)

[RST-HDSL](#)

[RTRV-CSTAT-HDSL](#)

[RTRV-HDSL](#)

[RTRV-PM-HDSL](#)

Input Format

```
RTRV-COND-HDSL:[TID]:<HdslRngAid>:[CTAG];
```

Input Parameters

HdslRngAid HDSL Port Access Identifier. The address of the HDSL port for which conditions are being retrieved. *HdslRngAid* is the AID [SixPortLuRngAid](#) and is listable and rangeable. *HdslRngAid* must not be null.

Input Example

```
RTRV-COND-HDSL:SYS1:N8-3-4-1:229;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<HdslAid>,[<AIDTYPE>]:[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],[<OCRDAT>],
[<OCRTM>],[<LOCN>],"
;
```

Output Parameters

- HdslAid** HDSL Port Access Identifier. The address of the HDSL port for which conditions are being retrieved. *HdslAid* is the AID [SixPortLuAid](#).
- AIDTYPE** AID Type. This parameter identifies the type of entity which the condition is associated. *AIDTYPE* is of type [AIDType](#). *AIDTYPE* is optional.
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the condition. *NTFCNCDE* is of type [NotificationConds](#). *NTFCNCDE* is optional.
- CONDTYPE** Condition Type. This parameter identifies the condition type which exists. *CONDTYPE* is of type [CondTypeHdsl](#). *CONDTYPE* is optional.
- SRVEFF** Service Effect. This parameter identifies the effect on service caused by the condition. *SRVEFF* is of type [ServiceEffect](#). *SRVEFF* is optional.
- OCRDAT** Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the triggered event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.
- LOCN** Location. This parameter identifies the location associated with the condition. *LOCN* is of type [LocationAll](#). *LOCN* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N8-3-4-1,ADSL:MN,SCMMA,NSA,01-03-99,12-12,NEND,,"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-IMA

Name

RTRV-COND-IMA: Retrieve Condition IMA

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to return the current standing condition and/or state associated with the IMA group.

Defined in GR-833.

Related Messages:

DLT-AP	DLT-AP-T1
DLT-GOS-AP	DLT-GOS-IMA
DLT-GOS-IMALINK	DLT-IMA
DLT-IMA-PORT	ED-AP
ED-GOS-AP	ED-GOS-IMA
ED-GOS-IMALINK	ED-IMA
ENT-AP	ENT-AP-T1
ENT-GOS-AP	ENT-GOS-IMA
ENT-GOS-IMALINK	ENT-IMA
ENT-IMA-PORT	INIT-REG-AP
INIT-REG-IMA	INIT-REG-IMALINK
REPT ALM AP	REPT ALM IMA
REPT ALM IMALINK	REPT EVT AP
REPT EVT IMA	REPT EVT IMALINK
REPT RMV AP	REPT RST AP
RMV-AP	RMV-IMA
RST-AP	RST-IMA
RTRV-ALM-AP	RTRV-ALM-IMA
RTRV-ALM-IMALINK	RTRV-AP
RTRV-COND-AP	RTRV-GOS-AP
RTRV-GOS-IMA	RTRV-GOS-IMALINK
RTRV-IMA	RTRV-PM-AP
RTRV-PM-IMA	RTRV-PM-IMALINK

Input Format

```
RTRV-COND-IMA:[TID]:<ImaAid>:[CTAG];
```

Input Parameters

ImaAid IMA Group Access Identifier. The address of the IMA Group for which conditions are being retrieved. *ImaAid* is the AID [ImaRngAid](#) and is listable and rangeable. *ImaAid* must not be null.

Input Example

```
RTRV-COND-IMA:SYS3:N3-4-2-IMA1:229;
```

Output Format

```
    SID DATE TIME
M   CTAG COMPLD
"<ImaAid>,[<AIDTYPE>]:[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],[<OCRDAT>],
    [<OCRTM>],[<LOCN>],"
;"
```

Output Parameters

- ImaAid** IMA Group Access Identifier. The address of the IMA Group for which conditions are being retrieved. *ImaAid* is the AID [ImaGrpAid](#).
- AIDTYPE** AID Type. This parameter identifies the type of entity which the condition is associated. *AIDTYPE* is of type [AIDType](#). *AIDTYPE* is optional.
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the condition. *NTFCNCDE* is of type [NotificationConds](#). *NTFCNCDE* is optional.
- CONDTYPE** Condition Type. This parameter identifies the condition type which exists. *CONDTYPE* is of type [CondTypeIma](#). *CONDTYPE* is optional.
- SRVEFF** Service Effect. This parameter identifies the effect on service caused by the condition. *SRVEFF* is of type [ServiceEffect](#). *SRVEFF* is optional.
- OCRDAT** Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the triggered event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.
- LOCN** Location. This parameter identifies the location associated with the condition. *LOCN* is of type [Location](#). *LOCN* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-4-2-IMA1,IMA:MN,COMMSLINKDOWN,NSA,04-03,12-03-34,NEND,,,"
```

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-LOG

Name

RTRV-COND-LOG: Retrieve Condition Log

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to return the current standing condition and/or state associated with the logs.

Defined in GR-833.

Related Messages:

[INIT-LOG](#)
[RTRV-LOG](#)

[REPT EVT LOG](#)

Input Format

```
RTRV-COND-LOG:[TID]:<ShelfAid>:[CTAG];
```

Input Parameters

ShelfAid Shelf Access Identifier. The address of the shelf where the log are located for which conditions are being retrieved. *ShelfAid* is the AID [ShelfAid](#) and is listable and rangeable. *ShelfAid* must not be null.

Input Example

```
RTRV-COND-LOG:SYS3:N3-4:229;
```

Output Format

```
    SID DATE TIME
M    CTAG COMPLD
"<ShelfAid>,[<AIDTYPE>]:[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],[<OCRDAT>],
    [<OCRTM>],,,"
;"
```

Output Parameters

ShelfAid Shelf Access Identifier. The address of the shelf where the log are located for which conditions are being retrieved. *ShelfAid* is the AID [ShelfAid](#).

AIDTYPE AID Type. This parameter identifies the type of entity which the condition is associated.

AIDTYPE is of type [AIDType](#). *AIDTYPE* is optional.

- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the condition. *NTFCNCDE* is of type [NotificationConds](#). *NTFCNCDE* is optional.
- CONDTYPE** Condition Type. This parameter identifies the condition type which exists. *CONDTYPE* is of type [CondTypeLog](#). *CONDTYPE* is optional.
- SRVEFF** Service Effect. This parameter identifies the effect on service caused by the condition. *SRVEFF* is of type [ServiceEffect](#). *SRVEFF* is optional.
- OCRDAT** Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the triggered event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-4,LOG:MN,LOGBUFROVFL-ALM,NSA,01-03-99,12-12,,,,"
```

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-LSWPORT

Name

RTRV-COND-LSWPORT: Retrieve Condition Logical Switch Port

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to return the current standing condition and/or state associated with the LSwitch.

Defined by Calix and based on RTRV-COND-rr in GR-833.

Input Format

```
RTRV-COND-LSWPORT:[TID]:<LSwitchPortAid>:[CTAG];
```

Input Parameters

LSwitchPortAid Logical Switch Port Access Identifier. *LSwitchPortAid* is the AID [LSwitchPortRngAid](#). *LSwitchPortAid* must not be null.

Input Example

```
RTRV-COND-LSWPRT:SYS3:N8-3-XLAN2-NTWK1:229;
```

Output Format

```
      SID DATE TIME
M    CTAG COMPLD
"<LSwitchPortAid>,<AIDTYPE>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,<OCRDAT>,
     <OCRTM>"
;
```

Output Parameters

LSwitchPortAid Logical Switch Port Access Identifier. *LSwitchPortAid* is the AID [LSwitchPortAid](#).

AIDTYPE AID Type. This parameter identifies the type of entity which the condition is associated. *AIDTYPE* is of type [AIDType](#).

NTFCNCDE Notification Code. This parameter indicates the notification code associated with the condition. *NTFCNCDE* is of type [NotificationConds](#).

CONDTYPE Condition Type. This parameter identifies the condition type which exists. *CONDTYPE* is of type [CondTypeLSwitch](#).

SRVEFF Service Effect. This parameter identifies the effect on service caused by the condition. *SRVEFF* is of type [ServiceEffect](#).

OCRDAT Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. *OCRDAT* is a Date.

OCRTM Occurrence Time. This parameter identifies the time when the triggered event occurred. Time HH-MM-SS. *OCRTM* is a Time.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N8-3-XLAN2-NTWK1,LSWPRT:MN,LSWVTI,NSA,01-03-99,12-12"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-ONT

Name

RTRV-COND-ONT: Retrieve Condition Optical Network Termination

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to return the current standing condition and/or state associated with the ONT.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV ONT	REPT RMV RFVID
REPT RST AVO	REPT RST ONT
REPT RST RFVID	RMV-AVO
RMV-ONT	RMV-RFVID
RST-AVO	RST-ONT
RST-RFVID	RTRV-ALM-AVO
RTRV-ALM-ONT	RTRV-ALM-RFVID
RTRV-ALM-VCG	RTRV-ALM-VRP
RTRV-AVO	RTRV-COND-VCG
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT

[RTRV-PROF-ONT](#)
[RTRV-STAT-HPNA](#)
[RTRV-VCG](#)
[RTRV-VRP](#)

[RTRV-RFVID](#)
[RTRV-STAT-RFR](#)
[RTRV-VDS1](#)
[TST-ONT-MET](#)

Input Format

```
RTRV-COND-ONT: [ TID ] :<OntAid> : [ CTAG ] ;
```

Input Parameters

OntAid Access Identifier of an ONT. *OntAid* is the AID [OntRngAid](#) and is listable and rangeable. *OntAid* must not be null.

Input Example

```
RTRV-COND-ONT: SYS:N2-1-3-1-23:234;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<OntAid> , [ <AIDTYPE> ] : [ <NTFCNCDE> ] , [ <CONDTYPE> ] , [ <SRVEFF> ] , [ <OCRDAT> ] ,
[ <OCRTM> ] , [ <LOCN> ] "
;
```

Output Parameters

- | | |
|-----------------|--|
| OntAid | Access Identifier of an ONT. <i>OntAid</i> is the AID OntAid . |
| AIDTYPE | AID Type. This parameter identifies the type of entity which the condition is associated. <i>AIDTYPE</i> is of type AIDType . <i>AIDTYPE</i> is optional. |
| NTFCNCDE | Notification Code. This parameter indicates the notification code associated with the condition. <i>NTFCNCDE</i> is of type NotificationConds . <i>NTFCNCDE</i> is optional. |
| CONDTYPE | Condition Type. This parameter identifies the condition type which exists. <i>CONDTYPE</i> is of type CondTypeOnt . <i>CONDTYPE</i> is optional. |
| SRVEFF | Service Effect. This parameter identifies the effect on service caused by the condition. <i>SRVEFF</i> is of type ServiceEffect . <i>SRVEFF</i> is optional. |
| OCRDAT | Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. <i>OCRDAT</i> is a Date. <i>OCRDAT</i> is optional. |
| OCRTM | Occurrence Time. This parameter identifies the time when the triggered event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time. <i>OCRTM</i> is optional. |
| LOCN | Location. This parameter identifies the location associated with the condition. <i>LOCN</i> is of type Location . <i>LOCN</i> is optional. |

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N2-1-3-1-23,ONT:MN,BATMISS,NSA,12-12,13-21-04,FEND"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-PON

Name

RTRV-COND-PON: Retrieve Condition Passive Optical Network

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to return the current standing condition and/or state associated with the PON port.

Input Format

```
RTRV-COND-PON:[TID]:<PonAid>:[CTAG];
```

Input Parameters

PonAid The Access Identifier of a PON port. *PonAid* is the AID [FourPortLuRngAid](#) and is listable and rangeable. *PonAid* must not be null.

Input Example

```
RTRV-COND-PON:SYS:N2-1-3-1:235;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<PonAid>,[<AIDTYPE>]:[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],[<OCRDAT>],
[<OCRTM>],[<LOCN>]"
```



Output Parameters

PonAid	<i>PonAid</i> is the AID FourPortLuAid .
AIDTYPE	AID Type. This parameter identifies the type of entity which the condition is associated. <i>AIDTYPE</i> is of type AIDType . <i>AIDTYPE</i> is optional.
NTFCNCDE	This parameter indicates the notification code associated with the condition. <i>NTFCNCDE</i> is of type NotificationConds . <i>NTFCNCDE</i> is optional.
CONDTYPE	Condition Type. <i>CONDTYPE</i> is of type CondTypePon . <i>CONDTYPE</i> is optional.
SRVEFF	Service Effect. This parameter identifies the effect on service caused by the condition. <i>SRVEFF</i> is of type ServiceEffect . <i>SRVEFF</i> is optional.
OCRDAT	Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. <i>OCRDAT</i> is a Date. <i>OCRDAT</i> is optional.
OCRTM	Occurrence Time. This parameter identifies the time when the triggered event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time. <i>OCRTM</i> is optional.
LOCN	Location. This parameter identifies the location associated with a particular alarm. <i>LOCN</i> is of type Location . <i>LOCN</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N2-1-3-1,PON:MN,SDBER,NSA,12-12,13-21-04,FEND"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-PP

Name

RTRV-COND-PP: Retrieve Condition Pseudo-Port

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to return the current standing condition and/or state associated with a

pseudo-port.

Defined in GR-833.

Related Messages:

[ACT-PROTN-VC](#)
[DLT-CRS-VC](#)
[DLT-PP](#)
[ED-CRS-VC](#)
[ED-PROF-TRF](#)
[ENT-CRS-VP](#)
[ENT-PROF-TRF](#)
[INIT-CSTAT-VP](#)
[INJ-LPBK-VP](#)
[MV-CRS-VP](#)
[OPR-CC-VP](#)
[REPT EVT PP](#)
[REPT EVT VP](#)
[REPT RST PP](#)
[RLS-CC-VP](#)
[RST-PP](#)
[RTRV-CRS-VC](#)
[RTRV-CSTAT-VC](#)
[RTRV-PP](#)
[RTRV-VTI](#)

[ACT-PROTN-VP](#)
[DLT-CRS-VP](#)
[DLT-PROF-TRF](#)
[ED-CRS-VP](#)
[ENT-CRS-VC](#)
[ENT-PP](#)
[INIT-CSTAT-VC](#)
[INJ-LPBK-VC](#)
[MV-CRS-VC](#)
[OPR-CC-VC](#)
[REPT ALM PP](#)
[REPT EVT VC](#)
[REPT RMV PP](#)
[RLS-CC-VC](#)
[RMV-PP](#)
[RTRV-ALM-PP](#)
[RTRV-CRS-VP](#)
[RTRV-CSTAT-VP](#)
[RTRV-PROF-TRF](#)

Input Format

```
RTRV-COND-PP:[TID]:<PpAid>:[CTAG];
```

Input Parameters

PpAid Pseudo-Port Access Identifier. The address of the pseudo-port for which conditions are being retrieved. *PpAid* is the AID [PpRngAid](#) and is listable and rangeable. *PpAid* must not be null.

Input Example

```
RTRV-COND-PP:SYS3:N3-4-2-PP1:229;
```

Output Format

SID	DATE	TIME
M	CTAG	COMPLD
"<PpAid>, [<AIDTYPE>]:[<NTFCNCDE>], [<CONDTYPE>], [<SRVEFF>], [<OCRDAT>], [<OCRTM>], [<LOCN>]"		



Output Parameters

PpAid	Pseudo-Port Access Identifier. The address of the pseudo-port for which conditions are being retrieved. <i>PpAid</i> is the AID PpAid .
AIDTYPE	AID Type. This parameter identifies the type of entity which the condition is associated. <i>AIDTYPE</i> is of type AIDType . <i>AIDTYPE</i> is optional.
NTFCNCDE	Notification Code. This parameter indicates the notification code associated with the condition. <i>NTFCNCDE</i> is of type NotificationConds . <i>NTFCNCDE</i> is optional.
CONDTYPE	Condition Type. This parameter identifies the condition type which exists. <i>CONDTYPE</i> is of type CondTypePp . <i>CONDTYPE</i> is optional.
SRVEFF	Service Effect. This parameter identifies the effect on service caused by the condition. <i>SRVEFF</i> is of type ServiceEffect . <i>SRVEFF</i> is optional.
OCRDAT	Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. <i>OCRDAT</i> is a Date. <i>OCRDAT</i> is optional.
OCRTM	Occurrence Time. This parameter identifies the time when the triggered event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time. <i>OCRTM</i> is optional.
LOCN	Location. This parameter identifies the location associated with the condition. <i>LOCN</i> is of type Location . <i>LOCN</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
  "N3-4-2-PP1,PP:MN,AUDITMM,NSA,04-03,12-03-34,NEND"
;

```

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-PPL

Name

RTRV-COND-PPL: Retrieve Condition Path Protection Label

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to return the current standing condition and/or state associated with the PPL.

Defined in GR-833.

Related Messages:

[ENT-PPL](#)
[REPT ALM PPL](#)
[RLS-PROTNSW-PPL](#)
[RTRV-PPL](#)

[OPR-PROTNSW-PPL](#)
[REPT EVT PPL](#)
[RTRV-ALM-PPL](#)

Input Format

```
RTRV-COND-PPL:[TID]:<PplAid>:[CTAG];
```

Input Parameters

PplAid Path Protection LayerIdentifier. The address of the STS1 path for which conditions are being retrieved. *PplAid* is the AID [PplId1](#) and is listable and rangeable. *PplAid* must not be null.

Input Example

```
RTRV-COND-PPL:SYSA:N4-3-2-1-45:7;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD

"<PplAid>,[<AIDTYPE>]:[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],[<OCRDAT>],
[<OCRTM>],[<LOCN>],"
;
```

Output Parameters

PplAid Path Protection LayerIdentifier. The address of the STS1 path for which conditions are being retrieved. *PplAid* is the AID [PplId1](#).

AIDTYPE AID Type. This parameter identifies the type of entity which the condition is associated. *AIDTYPE* is of type [AIDType](#) and can be one of the following values: "PPL". *AIDTYPE* is optional.

NTFCNCDE Notification Code. This parameter indicates the notification code associated with the condition. *NTFCNCDE* is of type [NotificationConds](#). *NTFCNCDE* is optional.

CONDTYPE Condition Type. This parameter identifies the condition type which exists. *CONDTYPE* is of type [CondTypePpl](#). *CONDTYPE* is optional.

SRVEFF Service Effect. This parameter identifies the effect on service caused by the condition. *SRVEFF* is of type [ServiceEffect](#). *SRVEFF* is optional.

OCRDAT	Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. <i>OCRDAT</i> is a Date. <i>OCRDAT</i> is optional.
OCRTM	Occurrence Time. This parameter identifies the time when the triggered event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time. <i>OCRTM</i> is optional.
LOCN	Location. This parameter identifies the location associated with the condition. <i>LOCN</i> is of type Location . <i>LOCN</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N4-3-2-1-45,PPL:NA,LOCKOUTOFPR,NSA,04-03,12-03-34,NEND,,"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-SECU

Name

RTRV-COND-SECU: Retrieve Condition Security

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to return the current standing condition and/or state associated with Security.

Defined in GR-833.

Related Messages:

[ALW-MSG-SECU](#)
[CANC-CID-SECU](#)
[DLT-TMPLT-SECU](#)
[ED-RADIUS](#)
[ED-TMPLT-SECU](#)
[ENT-TMPLT-SECU](#)
[INH-MSG-SECU](#)
[REPT ALM SECU](#)

[ALW-USER-SECU](#)
[CANC-SES-SECU](#)
[DLT-USER-SECU](#)
[ED-SYS-SECU](#)
[ED-USER-SECU](#)
[ENT-USER-SECU](#)
[INH-USER-SECU](#)
[REPT EVT SECU](#)

[RTRV-ALM-SECU](#)
[RTRV-STATUS](#)
[RTRV-TMPLT-SECU](#)

[RTRV-RADIUS](#)
[RTRV-SYS-SECU](#)
[RTRV-USER-SECU](#)

Input Format

```
RTRV-COND-SECU:[TID]:<SecuAid>:[CTAG];
```

Input Parameters

SecuAid The condition may be raised on an AMP slot, or against the system. *SecuAid* is the AID [SecurityId](#) and is listable. *SecuAid* must not be null.

Input Example

```
RTRV-COND-SECU:XYZ:SYS:230;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<SecuAid>,[<AIDTYPE>]:[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],[<OCRDAT>],
[<OCRTM>]"
;"
```

Output Parameters

- SecuAid** The AID of the management slot, or "SYS" for a system-level condition. *SecuAid* is the AID [SecurityId](#).
- AIDTYPE** AID Type. This parameter identifies the type of entity which the condition is associated. *AIDTYPE* is of type [AIDType](#). *AIDTYPE* is optional.
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the condition. *NTFCNCDE* is of type [NotificationConds](#). *NTFCNCDE* is optional.
- CONDTYPE** Condition Type. This parameter identifies the condition type which exists. *CONDTYPE* is of type [CondTypeSecu](#). *CONDTYPE* is optional.
- SRVEFF** Service Effect. This parameter identifies the effect on service caused by the condition. *SRVEFF* is of type [ServiceEffect](#). *SRVEFF* is optional.
- OCRDAT** Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the triggered event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
```

M 001 COMPLD "SYS, SECU:MN, RADSERVFAIL, NSA, 02-09, 08-34-06" ;
--

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-SHELF

Name

RTRV-COND-SHELF: Retrieve Condition SHELF

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to return the current standing condition and/or state associated with the SHELF.

Related Messages:

ALW-STBY-UPGRD	DLT-ALM-SHELF
DLT-NODE	ED-DAT
ED-NODE	ED-SHELF
ED-SYS	ED-SYS-SECU
ENT-NODE	ENT-SHELF
INH-STBY-UPGRD	INIT-SYS
OPR-BAR	REPT ALM SHELF
REPT EVT MEM	REPT EVT SHELF
RTRV-ALM-SHELF	RTRV-BAR
RTRV-HDR	RTRV-NETYPE
RTRV-NODE	RTRV-SHELF
RTRV-SYS	RTRV-SYS-SECU

Input Format

RTRV-COND-SHELF: [TID]:<ShelfAid>:[CTAG];

Input Parameters

ShelfAid Shelf Access Identifier. *ShelfAid* is the AID [ShelfAid](#). *ShelfAid* must not be null.

Input Example

```
RTRV-COND-SHELF:SYS3:N8-3:229;
```

Output Format

```
      SID DATE TIME
M   CTAG COMPLD
"<ShelfAid>,[<AIDTYPE>]:[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],[<OCRDAT>],
[<OCRTM>]"
;
```

Output Parameters

ShelfAid Shelf Access Identifier. *ShelfAid* is the AID [ShelfAid](#).

AIDTYPE AID Type. This parameter identifies the type of entity which the condition is associated. *AIDTYPE* is of type [AIDType](#). *AIDTYPE* is optional.

NTFCNCDE Notification Code. This parameter indicates the notification code associated with the condition. *NTFCNCDE* is of type [NotificationConds](#). *NTFCNCDE* is optional.

CONDTYPE Condition Type. This parameter identifies the condition type which exists. *CONDTYPE* is of type [CondTypeShelf](#). *CONDTYPE* is optional.

SRVEFF Service Effect. This parameter identifies the effect on service caused by the condition. *SRVEFF* is of type [ServiceEffect](#). *SRVEFF* is optional.

OCRDAT Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.

OCRTM Occurrence Time. This parameter identifies the time when the triggered event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N8-3,STS1:MN,LOP-P,NSA,01-03-99,12-12"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-T0

Name

RTRV-COND-T0: Retrieve Condition DS0 Facility

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to return the current standing condition and/or state associated with the T0 port.

Defined in GR-833.

Related Messages:

DLT-CRS-T0	DLT-T0
ED-T0	ENT-CRS-T0
ENT-T0	REPT ALM T0
REPT EVT T0	REPT RMV T0
REPT RST T0	RMV-T0
RST-T0	RTRV-ALM-T0
RTRV-CRS-T0	RTRV-CSTAT-T0
RTRV-T0	

Input Format

```
RTRV-COND-T0:[TID]:<T0Aid>:[CTAG];
```

Input Parameters

T0Aid T0 Port Access Identifier. The address of the T0 port for which conditions are being retrieved.
T0Aid is the AID [TwentyFourPortLuRngAid](#) and is listable and rangeable. *T0Aid* must not be null.

Input Example

```
RTRV-COND-T0:SYS3:N8-3-4-1:229;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD
"<T0Aid>,[<AIDTYPE>]:[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],[<OCRDAT>],
[<OCRTM>],[<LOCN>],"
;
```

Output Parameters

T0Aid	T0 Port Access Identifier. The address of the T0 port for which conditions are being retrieved. <i>T0Aid</i> is the AID TwentyFourPortLuAid .
AIDTYPE	AID Type. This parameter identifies the type of entity which the condition is associated. <i>AIDTYPE</i> is of type AIDType . <i>AIDTYPE</i> is optional.
NTFCNCDE	Notification Code. This parameter indicates the notification code associated with the condition. <i>NTFCNCDE</i> is of type NotificationConds . <i>NTFCNCDE</i> is optional.
CONDTYPE	Condition Type. This parameter identifies the condition type which exists. <i>CONDTYPE</i> is of type CondTypeT0 . <i>CONDTYPE</i> is optional.
SRVEFF	Service Effect. This parameter identifies the effect on service caused by the condition. <i>SRVEFF</i> is of type ServiceEffect . <i>SRVEFF</i> is optional.
OCRDAT	Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. <i>OCRDAT</i> is a Date. <i>OCRDAT</i> is optional.
OCRTM	Occurrence Time. This parameter identifies the time when the triggered event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time. <i>OCRTM</i> is optional.
LOCN	Location. This parameter identifies the location associated with the condition. <i>LOCN</i> is of type Location . <i>LOCN</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N8-3-4-1,T0:MN,TSA,NSA,01-03-99,12-12,,,"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-T1

Name

RTRV-COND-T1: Retrieve Condition Digital Signal One

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to return the current standing condition and/or state associated with the T1 port.

Defined in GR-833.

Related Messages:

[DLT-AP-T1](#)
[DLT-GOS-T1](#)
[ED-GOS-T1](#)
[ENT-AP-T1](#)
[ENT-GOS-T1](#)
[INIT-REG-T1](#)
[REPT ALM T1](#)
[REPT RMV T1](#)
[RLS-LPBK-T1](#)
[RST-T1](#)
[RTRV-CRS-T1](#)
[RTRV-PM-T1](#)

[DLT-CRS-T1](#)
[DLT-T1](#)
[ED-T1](#)
[ENT-CRS-T1](#)
[ENT-T1](#)
[OPR-LPBK-T1](#)
[REPT EVT T1](#)
[REPT RST T1](#)
[RMV-T1](#)
[RTRV-ALM-T1](#)
[RTRV-GOS-T1](#)
[RTRV-T1](#)

Input Format

```
RTRV-COND-T1 : [ TID ] : <Ds1Aid> : [ CTAG ] ;
```

Input Parameters

Ds1Aid T1 Port Access Identifier. The address of the T1 port for which conditions are being retrieved. *Ds1Aid* is the AID [TwelvePortLuRngAid](#) and is listable and rangeable. *Ds1Aid* must not be null.

Input Example

```
RTRV-COND-T1 : SYS3 : N8-3-4-1 : 229 ;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<Ds1Aid>, [<AIDTYPE>] : [<NTFCNCDE>], [<CONDTYPE>], [<SRVEFF>], [<OCRDAT>],
    [<OCRTM>], [<LOCN>], "
;"
```

Output Parameters

Ds1Aid T1 Port Access Identifier. The address of the T1 port for which conditions are being retrieved. *Ds1Aid* is the AID [TwelvePortLuAid](#).

AIDTYPE	AID Type. This parameter identifies the type of entity which the condition is associated. <i>AIDTYPE</i> is of type AIDType . <i>AIDTYPE</i> is optional.
NTFCNCDE	Notification Code. This parameter indicates the notification code associated with the condition. <i>NTFCNCDE</i> is of type NotificationConds . <i>NTFCNCDE</i> is optional.
CONDTYPE	Condition Type. This parameter identifies the condition type which exists. <i>CONDTYPE</i> is of type CondTypeT1 . <i>CONDTYPE</i> is optional.
SRVEFF	Service Effect. This parameter identifies the effect on service caused by the condition. <i>SRVEFF</i> is of type ServiceEffect . <i>SRVEFF</i> is optional.
OCRDAT	Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. <i>OCRDAT</i> is a Date. <i>OCRDAT</i> is optional.
OCRTM	Occurrence Time. This parameter identifies the time when the triggered event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time. <i>OCRTM</i> is optional.
LOCN	Location. This parameter identifies the location associated with the condition. <i>LOCN</i> is of type Location . <i>LOCN</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N8-3-4-1,T1:MN,SCMMA,NSA,01-03-99,12-12,NEND,,"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-T1TG

Name

RTRV-COND-T1TG: Retrieve Condition T1 Transport Group

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to return the current standing condition and/or state associated with the GR-303 EOC/TMC data links.

Defined in GR-833.

Related Messages:

ALW-Swdx-GR303	ALW-Swdx-T1TG
DLT-CRS-T0	DLT-GR303
DLT-GR8	DLT-IG-DS1
DLT-T1TG	ED-GR303
ED-GR8	ENT-CRS-T0
ENT-GR303	ENT-GR8
ENT-IG-DS1	ENT-T1TG
INH-Swdx-GR303	INH-Swdx-T1TG
REPT ALM GR303	REPT ALM T1TG
REPT EVT GR303	REPT EVT T1TG
REPT SW GR303	REPT SW T1TG
RTRV-ALM-GR303	RTRV-ALM-T1TG
RTRV-COND-GR303	RTRV-CRS-T0
RTRV-DLSTAT-GR303	RTRV-DLSTAT-T1TG
RTRV-GR303	RTRV-GR8
RTRV-IG-DS1	RTRV-T1TG
SW-DX-GR303	SW-DX-T1TG

Input Format

```
RTRV-COND-T1TG:[TID]:<DataLinkSwAid>:[CTAG];
```

Input Parameters

DataLinkSwAid T1TG Data Links Access Identifier. The address of the T1TG EOC/TMC data links for which conditions are being retrieved. *DataLinkSwAid* is the AID [IgLinkSwRngAid](#) and is listable and rangeable. *DataLinkSwAid* must not be null.

Input Example

```
RTRV-COND-T1TG:SYS3:N8-3-IG3-EOC:229;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD
"<DataLinkSwAid>,[<AIDTYPE>]:[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],
[<OCRDAT>],[<OCRTM>],,,"
;
```

Output Parameters

DataLinkSwAid T1TG Data Links Access Identifier. The address of the T1TG EOC/TMC data links for which conditions are being retrieved. *DataLinkSwAid* is the AID [IgLinkSwAid](#).

AIDTYPE AID Type. This parameter identifies the type of entity which the condition is

associated. *AIDTYPE* is of type [AIDType](#). *AIDTYPE* is optional.

NTFCNCDE	Notification Code. This parameter indicates the notification code associated with the condition. <i>NTFCNCDE</i> is of type NotificationConds . <i>NTFCNCDE</i> is optional.
CONDTYPE	Condition Type. This parameter identifies the condition type which exists. <i>CONDTYPE</i> is of type CondTypeLink . <i>CONDTYPE</i> is optional.
SRVEFF	Service Effect. This parameter identifies the effect on service caused by the condition. <i>SRVEFF</i> is of type ServiceEffect . <i>SRVEFF</i> is optional.
OCRDAT	Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. <i>OCRDAT</i> is a Date. <i>OCRDAT</i> is optional.
OCRTM	Occurrence Time. This parameter identifies the time when the triggered event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time. <i>OCRTM</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N8-3-IG3-EOC,T1TG:MJ,EOCDUPLEX,NSA,01-03-99,12-12,,,,"
```

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-T3

Name

RTRV-COND-T3: Retrieve Condition Digital Signal 3

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to return the current standing condition and/or state associated with the T3 port.

Defined in GR-833.

Related Messages:

[DLT-GOS-T3](#)
[ED-GOS-T3](#)
[ENT-GOS-T3](#)

[DLT-T3](#)
[ED-T3](#)
[ENT-T3](#)

INIT-REG-T3	OPR-LPBK-T3
REPT ALM T3	REPT EVT T3
REPT RMV T3	REPT RST T3
RLS-LPBK-T3	RMV-T3
RST-T3	RTRV-ALM-T3
RTRV-GOS-T3	RTRV-PM-T3
RTRV-T3	

Input Format

```
RTRV-COND-T3:[ TID ]:<Ds3Aid>:[ CTAG ] ;
```

Input Parameters

Ds3Aid T3 Port Access Identifier. The address of the T3 port for which conditions are being retrieved.
Ds3Aid is the AID [T3RngAid](#) and is listable and rangeable. *Ds3Aid* must not be null.

Input Example

```
RTRV-COND-T3:SYS3:N8-3-4-1:229 ;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD
"<Ds3Aid>,[ <AIDTYPE> ]:[ <NTFCNCDE> ],[ <CONDTYPE> ],[ <SRVEFF> ],[ <OCRDAT> ],
[ <OCRTM> ],[ <LOCN> ],"
;
```

Output Parameters

- Ds3Aid** T3 Port Access Identifier. The address of the T3 port for which conditions are being retrieved. *Ds3Aid* is the AID [T3Aid](#).
- AIDTYPE** AID Type. This parameter identifies the type of entity which the condition is associated. *AIDTYPE* is of type [AIDType](#). *AIDTYPE* is optional.
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the condition. *NTFCNCDE* is of type [NotificationConds](#). *NTFCNCDE* is optional.
- CONDTYPE** Condition Type. This parameter identifies the condition type which exists. *CONDTYPE* is of type [CondTypeT3](#). *CONDTYPE* is optional.
- SRVEFF** Service Effect. This parameter identifies the effect on service caused by the condition. *SRVEFF* is of type [ServiceEffect](#). *SRVEFF* is optional.
- OCRDAT** Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the triggered event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.

LOCN Location. This parameter identifies the location associated with the condition. *LOCN* is of type [Location](#). *LOCN* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N8-3-4-1,T3:MN,SCMMA,NSA,01-03-99,12-12,FEND,,"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-TMG

Name

RTRV-COND-TMG: Retrieve Condition Timing

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to return the current standing condition and/or state associated with the timing.

Defined in GR-833.

Related Messages:

[ED-TMG](#)
[REPT ALM TMG](#)
[RLS-SYNCNSW](#)
[RTRV-TMG](#)

[OPR-SYNCNSW](#)
[REPT EVT TMG](#)
[RTRV-ALM-TMG](#)

Input Format

```
RTRV-COND-TMG: [ TID ] :<ShelfAid>: [ CTAG ] ;
```

Input Parameters

ShelfAid Shelf Access Identifier. The address of the shelf where the timing is located for which

conditions are being retrieved. *ShelfAid* is the AID [ShelfAid](#) and is listable and rangeable. *ShelfAid* must not be null.

Input Example

```
RTRV-COND-TMG:SYS3:N8-3:229;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<ShelfAid>,[<AIDTYPE>]:[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],[<OCRDAT>],
[<OCRTM>],,,"
;"
```

Output Parameters

- ShelfAid** Shelf Access Identifier. The address of the shelf where the timing is located for which conditions are being retrieved. *ShelfAid* is the AID [ShelfAid](#).
- AIDTYPE** AID Type. This parameter identifies the type of entity which the condition is associated. *AIDTYPE* is of type [AIDType](#). *AIDTYPE* is optional.
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the condition. *NTFCNCDE* is of type [NotificationConds](#). *NTFCNCDE* is optional.
- CONDTYPE** Condition Type. This parameter identifies the condition type which exists. *CONDTYPE* is of type [CondTypeTmg](#). *CONDTYPE* is optional.
- SRVEFF** Service Effect. This parameter identifies the effect on service caused by the condition. *SRVEFF* is of type [ServiceEffect](#). *SRVEFF* is optional.
- OCRDAT** Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the triggered event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N8-3,TMG:MN,CCBPV,NSA,01-03-99,12-12,,,,"
```

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-VCG

Name

RTRV-COND-VCG: Retrieve Condition Voice Concentration Group

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to return the current standing condition and/or state associated with the VCG.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV ONT	REPT RMV RFVID
REPT RST AVO	REPT RST ONT
REPT RST RFVID	RMV-AVO
RMV-ONT	RMV-RFVID
RST-AVO	RST-ONT
RST-RFVID	RTRV-ALM-AVO
RTRV-ALM-ONT	RTRV-ALM-RFVID
RTRV-ALM-VCG	RTRV-ALM-VRP
RTRV-AVO	RTRV-COND-ONT
RTRV-COND-VRP	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR

[RTRV-VCG](#)
[RTRV-VRP](#)

[RTRV-VDS1](#)
[TST-ONT-MET](#)

Input Format

```
RTRV-COND-VCG:[TID]:<IgAid>:[CTAG];
```

Input Parameters

IgAid Access Identifier of the VCG. *IgAid* is the AID [IgRngAid](#) and is listable and rangeable. *IgAid* must not be null.

Input Example

```
RTRV-COND-VCG:SYS:N6-3-IG2:345;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<IgAid>,[<AIDTYPE>]:[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>],[<OCRDAT>],
[<OCRTM>]"
;"
```

Output Parameters

IgAid Access Identifier of the VCG. *IgAid* is the AID [IgAid](#).

AIDTYPE AID Type. This parameter identifies the type of entity which the condition is associated. *AIDTYPE* is of type [AIDType](#). *AIDTYPE* is optional.

NTFCNCDE Notification Code. This parameter indicates the notification code associated with the condition. *NTFCNCDE* is of type [NotificationConds](#). *NTFCNCDE* is optional.

CONDTYPE Condition Type. This parameter identifies the condition type which exists. *CONDTYPE* is of type [CondTypeVcg](#). *CONDTYPE* is optional.

SRVEFF Service Effect. This parameter identifies the effect on service caused by the condition. *SRVEFF* is of type [ServiceEffect](#). *SRVEFF* is optional.

OCRDAT Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.

OCRTM Occurrence Time. This parameter identifies the time when the triggered event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N6-3-IG2,VCG:MN,TRAFTHR,NSA,12-12,13-21-04"
;"
```

Errors

This message generates all of the [Default Errors](#).

RTRV-COND-VRP

Name

RTRV-COND-VRP: Retrieve Condition Video Return Path

Description

Category: Fault **Security:** Maintenance - read

This command instructs the C7 to return the current standing condition and/or state associated with the Video Return Path.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV ONT	REPT RMV RFVID
REPT RST AVO	REPT RST ONT
REPT RST RFVID	RMV-AVO
RMV-ONT	RMV-RFVID
RST-AVO	RST-ONT

RST-RFVID	RTRV-ALM-AVO
RTRV-ALM-ONT	RTRV-ALM-RFVID
RTRV-ALM-VCG	RTRV-ALM-VRP
RTRV-AVO	RTRV-COND-ONT
RTRV-COND-VCG	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
RTRV-COND-VRP : [ TID ] : <VrpAid> : [ CTAG ] ;
```

Input Parameters

VrpAid Video Return Path Access Identifier. *VrpAid* is the AID [VrpNtwkRngAid](#) and is listable and rangeable. *VrpAid* must not be null.

Input Example

```
RTRV-COND-VRP : SYS : N2-1-3-1-23-VRP : 234 ;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<VrpAid>, <AIDTYPE> : [ <NTFCNCDE> ] , [ <CONDTYPE> ] , [ <SRVEFF> ] , [ <OCRDAT> ] ,
[ <OCRTM> ] "
;
```

Output Parameters

- VrpAid** Video Return Path Access Identifier *VrpAid* is the AID [VrpNtwkRngAid](#).
- AIDTYPE** AID Type. This parameter identifies the type of entity which the condition is associated. *AIDTYPE* is of type [AIDType](#).
- NTFCNCDE** Notification Code. This parameter indicates the notification code associated with the condition. *NTFCNCDE* is of type [NotificationConds](#). *NTFCNCDE* is optional.
- CONDTYPE** Condition Type. This parameter identifies the condition type which exists. *CONDTYPE* is of type [CondTypeVrp](#). *CONDTYPE* is optional.
- SRVEFF** Service Effect. This parameter identifies the effect on service caused by the condition. *SRVEFF* is of type [ServiceEffect](#). *SRVEFF* is optional.

- OCRDAT** Occurrence Date. This parameter identifies the date when the triggered event occurred. Date MM-DD. *OCRDAT* is a Date. *OCRDAT* is optional.
- OCRTM** Occurrence Time. This parameter identifies the time when the triggered event occurred. Time HH-MM-SS. *OCRTM* is a Time. *OCRTM* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N2-1-3-1-23-VRP,VRP:MN,FREQMISMATCH,SA,12-12,13-21-04"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-CRS-<STSN>

Name

RTRV-CRS-<[STSN](#)>: Retrieve Cross Connect (STS1, STS12C, STS3C, STS48C)

Description

Category: Cross Connect **Security:** Memory Admin - read

This command retrieves any connections associated with the entered AID(s). Source (From) and Destination (To) information is returned along with the type and level of the connection.

Defined in GR-199.

Related Messages:

[DLT-<STSN>](#)
[DLT-GOS-<STSN>](#)
[ED-CRS-<STSN>](#)
[ENT-<STSN>](#)
[ENT-GOS-<STSN>](#)
[OPR-PROTNSW-<STSN>](#)
[REPT EVT <STSN>](#)
[REPT RST <STSN>](#)
[RMV-<STSN>](#)
[RTRV-<STSN>](#)

[DLT-CRS-<STSN>](#)
[ED-<STSN>](#)
[ED-GOS-<STSN>](#)
[ENT-CRS-<STSN>](#)
[INIT-REG-<STSN>](#)
[REPT ALM <STSN>](#)
[REPT RMV <STSN>](#)
[RLS-PROTNSW-<STSN>](#)
[RST-<STSN>](#)
[RTRV-ALM-<STSN>](#)

[RTRV-COND-<STSN>](#)
[RTRV-PM-<STSN>](#)

[RTRV-GOS-<STSN>](#)

Input Format

```
RTRV-CRS-<STSN>:[TID]:<StsAid>:[CTAG]:::  
[ [ PATH=<PATH>, ] [ CONSTAT=<CONSTAT>, ] [ HOPS=<HOPS>, ] [ SCOPE=<SCOPE>, ]  
[ INTERNAL=<INTERNAL> ] ] ;
```

Input Parameters

StsAid	STS Path Access Identifier. The address of an STS path which is one of the endpoints in the cross-connect (either full or intermediate). Note: ranging across an entire shelf (N4-5-ALL, for example) is not supported). <i>StsAid</i> is the AID StsCrsRngAid and is listable and rangeable. <i>StsAid</i> must not be null.
PATH	Path. Protection path of the cross-connect being retrieved. <i>PATH</i> is of type Path . A null value is equivalent to "ALL".
CONSTAT	Connection Status. If present in the request, this parameter will limit the retrieval to cross connects having a connection status among those specified. <i>CONSTAT</i> is of type ConnectionStatus and is listable. A null value is equivalent to "ALL".
HOPS	Hops. If set to Y, this parameter indicates that all the intermediate cross-connects between the source and destination endpoints should be returned. If set to N, only the endpoints are shown. <i>HOPS</i> is of type BoolYN . A null value defaults to "N".
SCOPE	Scope of retrieval. This will indicate how far to trace the cross-connect. <i>SCOPE</i> is of type Scope . A null value defaults to "SHELF".
INTERNAL	Internal Cross Connects. If present, this parameter specifies the retrieval of otherwise hidden cross connects created internally by the C7. It is intended for use only by system experts or C7 support personnel. <i>INTERNAL</i> is of type InternalCrsTypes and is listable. A null value defaults to "NONE".

Input Example

```
RTRV-CRS-STS1:SYS3:N3-4-20-4-  
4:489:::PATH=WKG,CONSTAT=FEMM,HOPS=Y,SCOPE=NTWK,  
INTERNAL=ALL;
```

Output Format

```
SID DATE TIME  
M CTAG COMPLD  
"<SrcStsAid>,<DstStsAid>:<CTYPE>:KEY=<KEY>, [ [ DROP=<DROP>, ] [ PATH=<PATH>, ]  
[ CONSTAT=<CONSTAT> ] ]"  
;
```

Output Parameters

SrcStsAid Source (From) STS Path Access Identifier. The address of the STS path which is the source

endpoint in the cross-connect. *SrcStsAid* is the AID [StsCrsAid](#).

DstStsAid	Destination (To) STS Path Access Identifier. The address of the STS path which is the destination endpoint in the cross-connect. <i>DstStsAid</i> is the AID StsCrsAid .
CTYPE	Connection Type. This parameter identifies whether the cross-connect is a one or two way connection. <i>CTYPE</i> is of type ConnectionType3 .
KEY	Key of Cross-Connect. This indicates the AID of the traffic source for the given cross-connect, scoped according to the SCOPE parameter. Thus if SCOPE=NTWK, the KEY value will be the AID at the network edge. KEY can be used to group hops of the same cross-connect when specifying HOPS=Y. <i>KEY</i> is the AID StsCrsAid .
DROP	Drop Location. This parameter indicates locations where the cross-connect is to be dropped along the path to the endpoint. This is only present in drop-and-continue applications. <i>DROP</i> is the AID StsCrsAid and is listable. <i>DROP</i> is optional.
PATH	Path. Protection path of the cross-connect being retrieved. <i>PATH</i> is of type Path . <i>PATH</i> is optional.
CONSTAT	Connection Status. This indicates the state of the cross-connect. Note if SCOPE was specified as NTWK this value will only be displayed if it stays consistent for all cross-connect hops across the network. <i>CONSTAT</i> is of type ConnectionStatus . <i>CONSTAT</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "N3-4-20-4-4 ,N8-3-20-4-4 :2WAY:KEY=N8-3-8-1-1 ,DROP=N5-2-3-2-1-
VP49-VC23 ,
  PATH=WKG ,CONSTAT=FEMM"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-CRS-DCC

Name

RTRV-CRS-DCC: Retrieve Cross Connect Data Communication Channel

Description

Category: Management Interface

Security: System Administration

This command retrieves any connections associated with the entered AID(s). Source (From) and

Destination (To) information is returned along with the type and level of the connection.

Related Messages:

[DLT-CRS-DCC](#)
[ENT-CRS-DCC](#)

[ED-LINK](#)
[RTRV-LINK](#)

Input Format

```
RTRV-CRS-
DCC: [ TID ] : <CrsDccAid> : [ CTAG ] :: : [ [ PATH=<PATH>, ] [ CONSTAT=<CONSTAT>, ]
[ HOPS=<HOPS>, ] [ SCOPE=<SCOPE> ] ] ;
```

Input Parameters

CrsDccAid DCC Access Identifier. The address of an SDCC which is one of the endpoints in the cross-connect (either full or intermediate). SDCC denotes a section DCC. LDCC denotes a line DCC. LDCC(1-3) denotes one byte in the line DCC overhead. *CrsDccAid* is the AID [DccRngAid](#) and is listable and rangeable. *CrsDccAid* must not be null.

PATH Path. Protection path of the cross-connect being retrieved. *PATH* is of type [Path](#). A null value is equivalent to "ALL".

CONSTAT Connection Status. If present in the request, this parameter will limit the retrieval to cross connects having a connection status among those specified. *CONSTAT* is of type [ConnectionStatus](#) and is listable. A null value is equivalent to "ALL".

HOPS Hops. If set to Y, this parameter indicates that all the intermediate cross-connects between the source and destination endpoints should be returned. If set to N, only the endpoints are shown. *HOPS* is of type [BoolYN](#). A null value defaults to "N".

SCOPE Scope of retrieval. This will indicate how far to trace the cross-connect. *SCOPE* is of type [Scope](#). A null value defaults to "SHELF".

Input Example

```
RTRV-CRS-DCC:SYS3:N3-4-7-
LDCC3:65:::PATH=WKG,CONSTAT=RDY,HOPS=N,SCOPE=SHELF;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
" <CrsDccSrcAid> , <CrsDccDestAid> :: [ [ KEY=<KEY>, ] [ PATH=<PATH>, ]
[ CONSTAT=<CONSTAT> ] ] "
;
```

Output Parameters

CrsDccSrcAid Source (From) Access Identifier. The address of the source (from) endpoint of the cross-connect being created. SDCC denotes a section DCC. LDCC denotes a line DCC. LDCC(1-3) denotes one byte in the line DCC overhead. *CrsDccSrcAid* is the AID

[DccAid.](#)

CrsDccDestAid Destination (To) Access Identifier. The address of the destination (to) endpoint of the cross-connect being created. SDCC denotes a section DCC. LDCC denotes a line DCC. LDCC(1-3) denotes one byte in the line DCC overhead. *CrsDccDestAid* is the AID [DccAid.](#)

KEY Key of Cross-Connect. This indicates the AID of the traffic source for the given cross-connect, scoped according to the SCOPE parameter. Thus if SCOPE=NTWK, the KEY value will be the AID at the network edge. KEY can be used to group hops of the same cross-connect when specifying HOPS=Y. *KEY* is the AID [DccAid.](#) *KEY* is optional.

PATH Path. Protection path of the cross-connect being retrieved. *PATH* is of type [Path](#). *PATH* is optional.

CONSTAT Connection Status. This indicates the state of the cross-connect. Note if SCOPE was specified as NTWK this value will only be displayed if it stays consistent for all cross-connect hops across the network. *CONSTAT* is of type [ConnectionStatus](#). *CONSTAT* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "N3-4-7-1-LDCC3 , N3-4-8-1-LDCC3 ::KEY=N3-4-7-1-
LDCC3 , PATH=WKG , CONSTAT=RDY"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-CRS-OW

Name

RTRV-CRS-OW: Retrieve Cross Connect OW

Description

Category: Management Interface

Security: Memory Admin - read

This command retrieves any connections associated with the entered AID(s). Source (From) and Destination (To) information is returned along with the type and level of the connection.

This command is not currently supported.

Related Messages:

[ACT-CRS-OW](#)
[ED-IFCONFIG](#)
[ENT-CRS-OW](#)
[RTRV-SERIAL](#)

[DLT-CRS-OW](#)
[ED-SERIAL](#)
[RTRV-IFCONFIG](#)

Input Format

```
RTRV-CRS-
OW:[TID]:<OWPortAid>:[CTAG]:::[ [HOPS=<HOPS>, ][SCOPE=<SCOPE>, ]
[PATH=<PATH>]];
```

Input Parameters

- OWPortAid** OW Access Identifier. The address of an OW which is one of the endpoints in the cross-connect (either full or intermediate). *OWPortAid* is the AID [OWAid](#). *OWPortAid* must not be null.
- HOPS** Hops. If set to Y, this parameter indicates that all the intermediate cross-connects between the source and destination endpoints should be returned. If set to N, only the endpoints are shown. *HOPS* is of type [BoolYN](#). A null value defaults to "N".
- SCOPE** Scope of retrieval. This will indicate how far to trace the cross-connect. *SCOPE* is of type [Scope](#). A null value defaults to "SHELF".
- PATH** Path. Protection path of the cross-connect being retrieved. *PATH* is of type [Path](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-CRS-OW:SYS3:N3-4-9-1-
LINEOW:65::HOPS=N,SCOPE=SHELF,PATH=WKG;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<OWSrcPortAid>,<OWDstPortAid>:::[ [PROTN=<PROTN>, ][PATH=<PATH>] ] "
;";
```

Output Parameters

- OWSrcPortAid** Source (From) Access Identifier. The address of the source (from) endpoint of the cross-connect being created. *OWSrcPortAid* is the AID [OWAid](#).
- OWDstPortAid** Destination (To) Access Identifier. The address of the destination (to) endpoint of the cross-connect being created. *OWDstPortAid* is the AID [OWAid](#).
- PROTN** Cross-Connect Protection. When cross-connect are created the user has the option of making the cross-connect protected or not. This parameter indicates if the cross-

connect should be protected with a protection path or not. NOTE: the PROTN parameter has been deprecated; the PATH parameter should be used instead. *PROTN* is of type [BoolYN](#). *PROTN* is optional.

PATH Path. Protection path of the cross-connect being retrieved. *PATH* is of type [Path](#). *PATH* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "N3-4-9-1-LINEOW,N8-3-9-1-LINEOW::PROTN=N,PATH=WKG"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-CRS-T0

Name

RTRV-CRS-T0: Retrieve Cross Connect Digital Signal Zero

Description

Category: TDM Services

Security: Memory Admin - read

This command retrieves any DS0 connections associated with the entered AID(s).

Defined in GR-199.

Related Messages:

[ALW-Swdx-GR303](#)
[DLT-CRS-T0](#)
[DLT-GR8](#)
[DLT-T0](#)
[ED-GR303](#)
[ED-T0](#)
[ENT-GR303](#)
[ENT-IG-DS1](#)
[ENT-T1TG](#)
[INH-Swdx-T1TG](#)

[ALW-Swdx-T1TG](#)
[DLT-GR303](#)
[DLT-IG-DS1](#)
[DLT-T1TG](#)
[ED-GR8](#)
[ENT-CRS-T0](#)
[ENT-GR8](#)
[ENT-T0](#)
[INH-Swdx-GR303](#)
[REPT ALM GR303](#)

REPT ALM T0	REPT ALM T1TG
REPT EVT GR303	REPT EVT T0
REPT EVT T1TG	REPT RMV T0
REPT RST T0	REPT SW GR303
REPT SW T1TG	RMV-T0
RST-T0	RTRV-ALM-GR303
RTRV-ALM-T0	RTRV-ALM-T1TG
RTRV-COND-GR303	RTRV-COND-T0
RTRV-COND-T1TG	RTRV-CSTAT-T0
RTRV-DLSTAT-GR303	RTRV-DLSTAT-T1TG
RTRV-GR303	RTRV-GR8
RTRV-IG-DS1	RTRV-T0
RTRV-T1TG	SW-DX-GR303
SW-DX-T1TG	

Input Format

```
RTRV-CRS-T0:[TID]:<Ds0Aid>:[CTAG]:::[IGS=<IGS>];
```

Input Parameters

Ds0Aid DS0 Access Identifier. The address of a DS0 facility which is one of the endpoints in the cross-connect. *Ds0Aid* is the AID [CrsT0RngAid](#) and is listable and rangeable. *Ds0Aid* must not be null.

IGS Interface GroupS. This parameter specifies whether the TDM transport interface groups through which the connection passes should be listed. *IGS* is of type [BoolYN](#). A null value defaults to "N".

Input Example

```
RTRV-CRS-T0:SYS1:N3-4-20-7:342:::IGS=Y;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD
"<NtwkDs0Aid>,<SubsDs0Aid>:[<CCT>]:[ [NSG=<NSG> , ] [NDS0=<NDS0> , ]
[NAILUP=<NAILUP> , ] [BWC=<BWC> , ][IG=<IG> , ][PROTN=<PROTN> , ][TVC=<TVC> , ]
[VGP=<VGP> ] ] "
;
```

Output Parameters

NtwkDs0Aid Network DS0 Access Identifier. This is the end of the connection that faces the public switching network. *NtwkDs0Aid* is the AID [CrsT0SrcAid](#).

SubsDs0Aid Subscriber DS0 Access Identifier. This is the end of the connection that faces the

subscriber. *SubsDs0Aid* is the AID [CrsT0DstAid](#).

CCT	Connection Type. This parameter is used for specifying whether the cross-connect is a one or two way connection. <i>CCT</i> is of type ConnectionType2 . <i>CCT</i> is optional.
NSG	Number of Signaling Bits. This parameter specifies the type of signaling (ABCD) that should be used on T1 TDM facilities. Valid values are: 0 for clear channel transport. 2 for SF format robbed-bit signaling with DS0 Yellow and AIS disabled, 4 for ESF format robbed-bit signaling with DS0 Yellow and AIS enabled. <i>NSG</i> is of type Nsg . <i>NSG</i> is optional.
NDS0	Number of DS0s. The NDS0 parameter specifies the number of DS0s that were created in the same VC. When a value greater than 1 is specified, consecutive DS0s are connected starting with the source and destination DS0s. DS0s in the same VC insure that the delay is the same within the set of DS0s. <i>NDS0</i> is a Integer. <i>NDS0</i> is optional. <i>NDS0</i> is a Integer. <i>NDS0</i> is optional.
NAILUP	NAILUP the connection. NAILUP=Y indicates that a connection is being maintained, even when no call is being carried. If the connection is carried over a T1 Transport Group (T1TG), bandwidth is being permanently consumed by the connection. Bandwidth is only consumed during an active call when NAILUP=N. It is always "Y" when an endpoint of the connection cannot indicate the beginning or end of a call. This is the case with EBS, DDS, and TO endpoints. It is also currently the case with GR-8 Mode I endpoints. <i>NAILUP</i> is of type BoolYN . <i>NAILUP</i> is optional.
BWC	Bandwidth Constraint. BWC will be displayed if and only if IGS=Y is specified in the request. BWC indicates the Bandwidth Constraint Id being used. Currently, this is limited to the TDM constraint which is enabled or disabled in the system by setting the TDMBWC parameter in the ED-SYS command. <i>BWC</i> is the AID BwcAid and is listable. <i>BWC</i> is optional.
IG	Interface Group(s). IG will be displayed if and only if IGS=Y is specified in the request and the connection between NtwkDs0Aid and SubsDs0Aid spans "internal" T1 transport interface groups, or Voice Concentration Groups. The IG parameter shows the VCG, or the T1TG IDTs in the order that they are traversed from the network end to the subscriber end. <i>IG</i> is the AID IgAid and is listable. <i>IG</i> is optional.
PROTN	PROTECTioN details. PROTN will be displayed if and only if IGS=Y is specified in the request. This parameter will show whether or not a packet cross-connection is protected, for each packet domain spanned by the T0 cross connection. If there are no T1TGs involved in the cross-connect, there is only one packet domain. Else, PROTN will show a list in the same order as the IDT list. Note that the number of packet domains will be one greater than the number of IDTs, since one IDT implies two packet domains. Since protection does not apply to an intra-shelf cross connection, the symbol "NA" is used for intra-shelf packet domains. (The example shown here involves a protected ring connecting N3 and N6, with an IDT residing in node 6. Packets from N3 to N6 are protected. The other end of the N6 IDT is the RDT in N7-1. The next IDT is also N7-1, so the VC is on the backplane and therefore is considered neither protected nor unprotected. The other end of the N7 IDT is in N8-1. The fiber from N8-1 to N8-2 is unprotected for cost reasons, therefore the last leg of the connection is unprotected.)
	<i>PROTN</i> is a String and is listable. <i>PROTN</i> is optional.
TVC	TDM VC. The VC that carries the T0. TVC will be displayed if and only if IGS=Y is specified in the request. <i>TVC</i> is the AID VcId1 and is listable. <i>TVC</i> is optional.

VGP For FTTP, the VGP used to support connection. *VGP* is the AID [SlotLuAid](#). *VGP* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "N3-4-20-7,N8-2-20-9:2WAY:NSG=4,NDS0=1,NAILUP=N,BWC=TDM,
   IG=N6-1-IG1-1&N7-1-IG1-1,PROTN=Y&NA&N,TVC=N3-4-40-1-1-VP0-
VC100,
  VGP=N4-2-6"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-CRS-T1

Name

RTRV-CRS-T1: Retrieve Cross Connect Digital Signal One

Description

Category: Cross Connect **Security:** Memory Admin - read

This command retrieves any connections associated with the entered AID(s). Source (From) and Destination (To) information is returned along with the type and level of the connection.

Defined in GR-199.

Related Messages:

[DLT-AP-T1](#)
[DLT-GOS-T1](#)
[ED-GOS-T1](#)
[ENT-AP-T1](#)
[ENT-GOS-T1](#)
[INIT-REG-T1](#)
[REPT ALM T1](#)
[REPT RMV T1](#)
[RLS-LPBK-T1](#)
[RST-T1](#)

[DLT-CRS-T1](#)
[DLT-T1](#)
[ED-T1](#)
[ENT-CRS-T1](#)
[ENT-T1](#)
[OPR-LPBK-T1](#)
[REPT EVT T1](#)
[REPT RST T1](#)
[RMV-T1](#)
[RTRV-ALM-T1](#)

[RTRV-COND-T1](#)
[RTRV-PM-T1](#)

[RTRV-GOS-T1](#)
[RTRV-T1](#)

Input Format

```
RTRV-CRS-
T1:[TID]:<Ds1Aid>:[CTAG]::[ ]:[ [ PATH=<PATH>, ][ BWC=<BWC>, ][ APP=<APP>, ]
[ CONSTAT=<CONSTAT>, ][ HOPS=<HOPS>, ][ SCOPE=<SCOPE>, ][ INTERNAL=<INTERNAL> ] ];
```

Input Parameters

- Ds1Aid** T1 Access Identifier. The address of an T1 facility which is one of the endpoints in the cross-connect (either full or intermediate). Note: ranging across an entire shelf (N4-5-ALL, for example) is not supported). *Ds1Aid* is the AID [T1CrsRngAid](#) and is listable and rangeable. *Ds1Aid* must not be null.
- PATH** Path. Protection path of the cross-connect being retrieved. *PATH* is of type [Path](#). A null value is equivalent to "ALL".
- BWC** Bandwidth Constraint. If present in the request, this parameter will limit the retrieval to cross connects using a bandwidth constraint among those specified. *BWC* is the AID [BwcAid](#) and is listable. A null value is equivalent to "ALL".
- APP** Application Id. If present in the request, this parameter will limit the retrieval to cross connects using a traffic profile having an Application Id among those specified. *APP* is of type [ApplicationId](#) and is listable. A null value is equivalent to "ALL".
- CONSTAT** Connection Status. If present in the request, this parameter will limit the retrieval to cross connects having a connection status among those specified. *CONSTAT* is of type [ConnectionStatus](#) and is listable. A null value is equivalent to "ALL".
- HOPS** Hops. If set to Y, this parameter indicates that all the intermediate cross-connects between the source and destination endpoints should be returned. If set to N, only the endpoints are shown. *HOPS* is of type [BoolYN](#). A null value defaults to "N".
- SCOPE** Scope of retrieval. This will indicate how far to trace the cross-connect. *SCOPE* is of type [Scope](#). A null value defaults to "SHELF".
- INTERNAL** Internal Cross Connects. If present, this parameter specifies the retrieval of otherwise hidden cross connects created internally by the C7. It is intended for use only by system experts or C7 support personnel. *INTERNAL* is of type [InternalCrsTypes](#) and is listable. A null value defaults to "NONE".

Input Example

```
RTRV-CRS-T1:SYS1:N5-2-2-
12:342:::PATH=WKG,BWC=2,APP=IP,CONSTAT=FEMM,HOPS=N,
SCOPE=NTWK,INTERNAL=ALL;
```

Output Format

SID	DATE	TIME
M	CTAG	COMPLD
"<SrcDs1Aid>, <DstDs1Aid>:[<CCT>]:KEY=<KEY>, [[DROP=<DROP>,][PATH=<PATH>,]]		

```
[ BWC=<BWC> , ] [ CONSTAT=<CONSTAT> ] ] "
```

Output Parameters

- SrcDs1Aid** Source (From) T1 Access Identifier. For one-way connections, this is the end of the connection the signal comes from. For two-way connections this is the address of the T1 facility which is the source endpoint in the cross-connect. *SrcDs1Aid* is the AID [T1CrsAid](#).
- DstDs1Aid** Destination (To) T1 Access Identifier. The address of the T1 facility which is the destination endpoint in the cross-connect. *DstDs1Aid* is the AID [T1CrsAid](#).
- CCT** Connection Type. This parameter is used for specifying whether the cross-connect is a one or two way connection. *CCT* is of type [ConnectionType2](#). *CCT* is optional.
- KEY** Key of Cross-Connect. This indicates the AID of the traffic source for the given cross-connect, scoped according to the SCOPE parameter. Thus if SCOPE=NTWK, the KEY value will be the AID at the network edge. KEY can be used to group hops of the same cross-connect when specifying HOPS=Y. *KEY* is the AID [T1CrsAid](#).
- DROP** Drop Location. This parameter indicates locations where the cross-connect is to be dropped along the path to the endpoint. This is only present in drop-and-continue applications. *DROP* is the AID [T1CrsAid](#) and is listable. *DROP* is optional.
- PATH** Path. Protection path of the cross-connect being retrieved. *PATH* is of type [Path](#). *PATH* is optional.
- BWC** Bandwidth Constraint. The Bandwidth Constraint used when creating the cross-connect. *BWC* is the AID [BwcAid](#). *BWC* is optional.
- CONSTAT** Connection Status. This indicates the state of the cross-connect. Note if SCOPE was specified as NTWK this value will only be displayed if it stays consistent for all cross-connect hops across the network. *CONSTAT* is of type [ConnectionStatus](#). *CONSTAT* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "N5-2-2-12,N3-3-3-3:2WAY:KEY=N8-3-8-1-1-3-44-987,DROP=N5-2-3-
2-1-VP49-VC23,
    PATH=WKG,BWC=2,CONSTAT=FEMM"
;
```

Errors

This message generates all of the [Default Errors](#).

Name

RTRV-CRS-VC: Retrieve Cross Connect Virtual Circuit

Description

Category: Cross Connect **Security:** Memory Admin - read

This command retrieves any connections associated with the entered AID(s). Source (From) and Destination (To) information is returned along with the type and level of the connection.

Defined in GR-199.

Related Messages:

ACT-PROTN-VC	ACT-PROTN-VP
DLT-CRS-VC	DLT-CRS-VP
DLT-PP	DLT-PROF-TRF
ED-CRS-VC	ED-CRS-VP
ED-PROF-TRF	ENT-CRS-VC
ENT-CRS-VP	ENT-PP
ENT-PROF-TRF	INIT-CSTAT-VC
INIT-CSTAT-VP	INJ-LPBK-VC
INJ-LPBK-VP	MV-CRS-VC
MV-CRS-VP	OPR-CC-VC
OPR-CC-VP	REPT ALM PP
REPT EVT PP	REPT EVT VC
REPT EVT VP	REPT RMV PP
REPT RST PP	RLS-CC-VC
RLS-CC-VP	RMV-PP
RST-PP	RTRV-ALM-PP
RTRV-COND-PP	RTRV-CRS-VP
RTRV-CSTAT-VC	RTRV-CSTAT-VP
RTRV-PP	RTRV-PROF-TRF
RTRV-VTI	

Input Format

```
RTRV-CRS-
VC:[TID]:<VcAid>:[CTAG]::[ ]:[ [ TRFPROF=<TRFPROF>, ][ BCKPROF=<BCKPROF>, ]
[ PATH=<PATH>, ][ PC=<PC>, ][ BWC=<BWC>, ][ APP=<APP>, ][ CONSTAT=<CONSTAT>, ]
[ PPL=<PPL>, ][ PPLORIGIN=<PPLORIGIN>, ][ HOPS=<HOPS>, ][ SCOPE=<SCOPE>, ]
[ INTERNAL=<INTERNAL> ] ];
```

Input Parameters

VcAid Virtual Circuit (VC) Access Identifier. The address of any point along the connection to

be retrieved. It need not be just an endpoint Note: ranging across an entire shelf (N4-5-ALL, for example) is not currently supported). *VcAid* is the AID [VclId13](#) and is listable and rangeable. *VcAid* must not be null.

TRFPROF	Traffic Profile. If present in the request, this parameter will limit the retrieval to cross connects using a traffic profile among those specified. <i>TRFPROF</i> is the AID TrfId and is listable. A null value is equivalent to "ALL".
BCKPROF	Backward Traffic Profile. If present in the request, this parameter will limit the retrieval to cross connects using a backward traffic profile among those specified. <i>BCKPROF</i> is the AID TrfId and is listable. A null value is equivalent to "ALL".
PATH	Path. Protection path of the cross-connect being retrieved. <i>PATH</i> is of type Path . A null value is equivalent to "ALL".
PC	Protection Class. If present in the request, this parameter will limit the retrieval to cross connects matching the requested Class. <i>PC</i> is of type ProtClass and is listable. A null value is equivalent to "ALL".
BWC	Bandwidth Constraint. If present in the request, this parameter will limit the retrieval to cross connects using a bandwidth constraint among those specified. <i>BWC</i> is the AID BwcAid and is listable. A null value is equivalent to "ALL".
APP	Application Id. If present in the request, this parameter will limit the retrieval to cross connects using a traffic profile having an Application Id among those specified. <i>APP</i> is of type ApplicationId and is listable. A null value is equivalent to "ALL".
CONSTAT	Connection Status. If present in the request, this parameter will limit the retrieval to cross connects having a connection status among those specified. <i>CONSTAT</i> is of type ConnectionStatus and is listable. A null value is equivalent to "ALL".
PPL	Path Protection Label. If present in the request, this parameter will limit the retrieval to cross connects with a PPL among those specified. <i>PPL</i> is the AID PplId1 and is listable. A null value is equivalent to "ALL".
PPLORIGIN	Path Protection Label Origination Shelf. If present in the request, this parameter will limit the retrieval to cross connects with a PPL originating on the given shelves. <i>PPLORIGIN</i> is the AID ShelfAid and is listable. A null value is equivalent to "ALL".
HOPS	Hops. If set to Y, this parameter indicates that all the intermediate cross-connects between the source and destination endpoints should be returned. If set to N, only the endpoints are shown. <i>HOPS</i> is of type BoolYN . A null value defaults to "N".
SCOPE	Scope of retrieval. This will indicate how far to trace the cross-connect. <i>SCOPE</i> is of type Scope . A null value defaults to "SHELF".
INTERNAL	Internal Cross Connects. If present, this parameter specifies the retrieval of otherwise hidden cross connects created internally by the C7. It is intended for use only by system experts or C7 support personnel. <i>INTERNAL</i> is of type InternalCrsTypes and is listable. A null value defaults to "NONE".

Input Example

```
RTRV-CRS-VC:SYS1:N8-3-8-1-1-VP44-
VC987:342:::TRFPROF=3,BCKPROF=6,PATH=WKG,
PC=ANY,BWC=1,APP=IP,CONSTAT=RDY,PPL=N5-2-CSA-1-
1234,PPLORIGIN=N5-2,HOPS=N,
SCOPE=NTWK,INTERNAL=ALL;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD
  "<SrcVcAid>,<DstVcAid>:<CTYPE>:KEY=<KEY>, [[DROP=<DROP>,
[TRFPROF=<TRFPROF>,[BCKPROF=<BCKPROF>,[PATH=<PATH>,[PC=<PC>,
[BWC=<BWC>,[CONSTAT=<CONSTAT>,[PPL=<PPL>]]"
;

```

Output Parameters

SrcVcAid	Source (From) Virtual Circuit Access Identifier. The endpoint opposite the DstVcAid. <i>SrcVcAid</i> is the AID VcId11 .
DstVcAid	Destination (To) Virtual Circuit Access Identifier. The endpoint opposite the SrcVcAid. <i>DstVcAid</i> is the AID VcId17 .
CTYPE	Connection Type. This parameter identifies whether the cross-connect is a one or two way connection. <i>CTYPE</i> is of type ConnectionType .
KEY	Key of Cross-Connect. This indicates the AID of the traffic source for the given cross-connect, scoped according to the SCOPE parameter. Thus if SCOPE=NTWK, the KEY value will be the AID at the network edge. KEY can be used to group hops of the same cross-connect when specifying HOPS=Y. <i>KEY</i> is the AID VcId3 .
DROP	Drop Location. This parameter indicates locations where the cross-connect is to be dropped along the path to the endpoint. This is only present in drop-and-continue applications. <i>DROP</i> is the AID VcId3 and is listable. <i>DROP</i> is optional.
TRFPROF	Traffic Profile. This parameter identifies which Traffic Profile which applies to the cross-connect. The Traffic Profile specifies the bandwidth parameters. Note if SCOPE was specified as NTWK this value will only be displayed if it stays consistent for all cross-connect hops across the network. <i>TRFPROF</i> is the AID TrfId . <i>TRFPROF</i> is optional.
BCKPROF	Backward Traffic Profile. This parameter identifies which Traffic Profile which applies to the backward direction of the cross-connect. If no BCKPROF is specified, then the service on the cross-connect is symmetrical and the TRFPROF is applied to both directions. Note if SCOPE was specified as NTWK this value will only be displayed if it stays consistent for all cross-connect hops across the network. <i>BCKPROF</i> is the AID TrfId . <i>BCKPROF</i> is optional.
PATH	Path. Protection path of the cross-connect being retrieved. <i>PATH</i> is of type Path . <i>PATH</i> is optional.
PC	Protection Class - Indicates whether the cross connect is uses Bridged or UnBridged protection. <i>PC</i> is of type ProtClass . <i>PC</i> is optional.
BWC	Bandwidth Constraint. The Bandwidth Constraint used when creating the cross-connect. <i>BWC</i> is the AID BwcAid . <i>BWC</i> is optional.
CONSTAT	Connection Status. This indicates the state of the cross-connect. Note if SCOPE was specified as NTWK this value will only be displayed if it stays consistent for all cross-connect hops across the network. <i>CONSTAT</i> is of type ConnectionStatus . <i>CONSTAT</i> is optional.
PPL	Path Protection Label. The label associated with the protection path. Note if SCOPE was specified as NTWK this value will not be displayed. <i>PPL</i> is the AID PplId1 and is listable. <i>PPL</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N8-3-8-1-1-VP44-VC987,N5-2-CSA-1-1-VP32-VC3123:1WAY:
KEY=N8-3-8-1-2-VP44-VC987,DROP=N5-2-3-2-1-VP49-
VC23,TRFPROF=3,BCKPROF=6,
PATH=WKG,PC=BR,BWC=1,CONSTAT=RDY,PPL=N5-2-CSA-1-1234"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-CRS-VIDVC

Name

RTRV-CRS-VIDVC: Retrieve Cross Connect Video Virtual Circuit

Description

Category: Cross Connect **Security:** Memory Admin - read

This command retrieves any connections associated with the entered AID(s). Source (From) and Destination (To) information is returned along with other information pertaining to video cross-connects.

Input Format

```

RTRV-CRS-
VIDVC:[TID]:<VcAid>:[CTAG]::IRCAID=<IrcAid>,[ [ TRFPROF=<TRFPROF>,
[BCKPROF=<BCKPROF>,[ PATH=<PATH>,[ BWC=<BWC>,[ APP=<APP>,
[ CONSTAT=<CONSTAT>,[ INTERNAL=<INTERNAL>,[ IP=<IP>]];
;
```

Input Parameters

VcAid Virtual Circuit (VC) Access Identifier. The address of a terminating endpoint of the cross-connect to be retrieved. *VcAid* is the AID [VidvcId3](#) and is listable and rangeable. *VcAid* must not be null.

IrcAid The slot address of the IRC. *IrcAid* is the AID [SlotLuAid](#). *IrcAid* must not be null.

TRFPROF Traffic Profile. If present in the request, this parameter will limit the retrieval to cross connects using a traffic profile among those specified. *TRFPROF* is the AID [TrfId](#) and is listable. A null value is equivalent to "ALL".

BCKPROF Backward Traffic Profile. If present in the request, this parameter will limit the retrieval to

cross connects using a backward traffic profile among those specified. *BCKPROF* is the AID [TrfId](#) and is listable. A null value is equivalent to "ALL".

PATH	Path. Protection path of the cross-connect being retrieved. <i>PATH</i> is of type Path . A null value is equivalent to "ALL".
BWC	Bandwidth Constraint. If present in the request, this parameter will limit the retrieval to cross connects using a bandwidth constraint among those specified. <i>BWC</i> is the AID BwcAid and is listable. A null value is equivalent to "ALL".
APP	Application Id. If present in the request, this parameter will limit the retrieval to cross connects using a traffic profile having an Application Id among those specified. <i>APP</i> is of type ApplicationId and is listable. A null value is equivalent to "ALL".
CONSTAT	Connection Status. If present in the request, this parameter will limit the retrieval to cross connects having a connection status among those specified. <i>CONSTAT</i> is of type ConnectionStatus and is listable. A null value is equivalent to "ALL".
INTERNAL	Internal Cross Connects. If present, this parameter specifies the retrieval of otherwise hidden cross connects created internally by the C7. It is intended for use only by system experts or C7 support personnel. <i>INTERNAL</i> is of type InternalCrsTypes and is listable. A null value defaults to "NONE".
IP	IP Address. If present in the request, this parameter will limit the retrieval to cross connects using an IP Address among those specified. <i>IP</i> is the AID IpAid and is listable. A null value is equivalent to "ALL".

Input Example

```
RTRV-CRS-VIDVC:SYS1:N1-1-2-3-1-VP1-VC100:CTAG:::IRCAID=N1-1-5,TRFPROF=1,
BCKPROF=1,PATH=UNPROT,BWC=1,APP=IP,CONSTAT=FEMM,INTERNAL=ALL,
IP=209.204.165.182;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD

"<SrcVcAid>,<DstVcAid>::[ [ TRFPROF=<TRFPROF>, ][ BCKPROF=<BCKPROF>, ]
[ PATH=<PATH>, ][ PC=<PC>, ][ BWC=<BWC>, ][ ARP=<ARP>, ][ APP=<APP>, ]
[ CHANNEL=<CHANNEL>, ][ CONSTAT=<CONSTAT> ] ]"
;
```

Output Parameters

SrcVcAid	Source (From) Virtual Circuit Access Identifier. The endpoint opposite the DstVcAid. <i>SrcVcAid</i> is the AID VidvcId1 .
DstVcAid	Destination (To) Virtual Circuit Access Identifier. The endpoint opposite the SrcVcAid. <i>DstVcAid</i> is the AID VidvcId1 .
TRFPROF	Traffic Profile. This parameter identifies which Traffic Profile which applies to the cross-connect. The Traffic Profile specifies the bandwidth parameters. Note if SCOPE was specified as NTWK this value will only be displayed if it stays consistent for all cross-connect hops across the network. <i>TRFPROF</i> is the AID TrfId . <i>TRFPROF</i> is optional.

BCKPROF	Backward Traffic Profile. This parameter identifies which Traffic Profile which applies to the backward direction of the cross-connect. If no BCKPROF is specified, then the service on the cross-connect is symmetrical and the TRFPROF is applied to both directions. Note if SCOPE was specified as NTWK this value will only be displayed if it stays consistent for all cross-connect hops across the network. <i>BCKPROF</i> is the AID TrfId . <i>BCKPROF</i> is optional.
PATH	Path. Protection path of the cross-connect being retrieved. <i>PATH</i> is of type Path . <i>PATH</i> is optional.
PC	Protection Class - Indicates whether the cross connect is uses Bridged or UnBridged protection. <i>PC</i> is of type ProtClass . <i>PC</i> is optional.
BWC	Bandwidth Constraint. The Bandwidth Constraint used when creating the cross-connect. <i>BWC</i> is the AID BwcAid . <i>BWC</i> is optional.
ARP	ARP Enabled. This option is only valid on VCs with a traffic profile containing the IP application ID. If set to Y, the IRC will answer ARP requests on this VC, thus creating dynamic ARP entries. <i>ARP</i> is of type BoolYN . <i>ARP</i> is optional.
APP	Application Id. The Application Id stored in the traffic profile. For video cross-connects, the application ID of the forward and backward traffic profile are the same. <i>APP</i> is of type ApplicationId . <i>APP</i> is optional.
CHANNEL	The Channel is a multicast IP address that identifies the broadcast channel associated with this VC. A multi cast address is a Class D address (first byte is 224-239). <i>CHANNEL</i> is the AID IpAid . <i>CHANNEL</i> is optional.
CONSTAT	Connection Status. This indicates the state of the cross-connect. Note if SCOPE was specified as NTWK this value will only be displayed if it stays consistent for all cross-connect hops across the network. <i>CONSTAT</i> is of type ConnectionStatus . <i>CONSTAT</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-1-2-3-1-VP1-VC100,N1-1-2-3-2-VP1-
VC100::TRFPROF=1,BCKPROF=2,
PATH=UNPROT,PC=BR,BWC=1,ARP=Y,APP=IP,CHANNEL=1.2.3.4,CONSTAT=FEMM"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-CRS-VP

Name

RTRV-CRS-VP: Retrieve Cross Connect Virtual Path

Description

Category: Cross Connect **Security:** Memory Admin - read

This command retrieves any connections associated with the entered AID(s). Source (From) and Destination (To) information is returned along with the type and level of the connection.

Defined in GR-199.

Related Messages:

[ACT-PROTN-VC](#)

[DLT-CRS-VC](#)

[DLT-PP](#)

[ED-CRS-VC](#)

[ED-PROF-TRF](#)

[ENT-CRS-VP](#)

[ENT-PROF-TRF](#)

[INIT-CSTAT-VP](#)

[INJ-LPBK-VP](#)

[MV-CRS-VP](#)

[OPR-CC-VP](#)

[REPT EVT PP](#)

[REPT EVT VP](#)

[REPT RST PP](#)

[RLS-CC-VP](#)

[RST-PP](#)

[RTRV-COND-PP](#)

[RTRV-CSTAT-VC](#)

[RTRV-PP](#)

[RTRV-VTI](#)

[ACT-PROTN-VP](#)

[DLT-CRS-VP](#)

[DLT-PROF-TRF](#)

[ED-CRS-VP](#)

[ENT-CRS-VC](#)

[ENT-PP](#)

[INIT-CSTAT-VC](#)

[INJ-LPBK-VC](#)

[MV-CRS-VC](#)

[OPR-CC-VC](#)

[REPT ALM PP](#)

[REPT EVT VC](#)

[REPT RMV PP](#)

[RLS-CC-VC](#)

[RMV-PP](#)

[RTRV-ALM-PP](#)

[RTRV-CRS-VC](#)

[RTRV-CSTAT-VP](#)

[RTRV-PROF-TRF](#)

Input Format

```
RTRV-CRS-
VP:[TID]:<VpAid>:[CTAG]::[ ]:[ [ TRFPROF=<TRFPROF>, ][ BCKPROF=<BCKPROF>, ]
[ PATH=<PATH>, ][ PC=<PC>, ][ BWC=<BWC>, ][ APP=<APP>, ][ CONSTAT=<CONSTAT>, ]
[ PPL=<PPL>, ][ PPLORIGIN=<PPLORIGIN>, ][ HOPS=<HOPS>, ][ SCOPE=<SCOPE>, ]
[ INTERNAL=<INTERNAL> ] ];
```

Input Parameters

VpAid	Virtual Path (VP) Access Identifier. The address of an virtual path which is one of the endpoints in the cross-connect (either full or intermediate). Note: ranging across an entire shelf (N4-5-ALL, for example) is not supported). <i>VpAid</i> is the AID VpRngAid and is listable and rangeable. <i>VpAid</i> must not be null.
--------------	--

TRFPROF	Traffic Profile. If present in the request, this parameter will limit the retrieval to cross connects using a traffic profile among those specified. <i>TRFPROF</i> is the AID TrfId and is listable. A null value is equivalent to "ALL".
BCKPROF	Backward Traffic Profile. If present in the request, this parameter will limit the retrieval to cross connects using a backward traffic profile among those specified. <i>BCKPROF</i> is the AID TrfId and is listable. A null value is equivalent to "ALL".
PATH	Path. Protection path of the cross-connect being retrieved. <i>PATH</i> is of type Path . A null value is equivalent to "ALL".
PC	Protection Class. If present in the request, this parameter will limit the retrieval to cross connects matching the requested Class (Bridged or Unbridged). <i>PC</i> is of type ProtClass and is listable. A null value is equivalent to "ALL".
BWC	Bandwidth Constraint. If present in the request, this parameter will limit the retrieval to cross connects using a bandwidth constraint among those specified. <i>BWC</i> is the AID BwcAid and is listable. A null value is equivalent to "ALL".
APP	Application Id. If present in the request, this parameter will limit the retrieval to cross connects using a traffic profile having an Application Id among those specified. <i>APP</i> is of type ApplicationId and is listable. A null value is equivalent to "ALL".
CONSTAT	Connection Status. If present in the request, this parameter will limit the retrieval to cross connects having a connection status among those specified. <i>CONSTAT</i> is of type ConnectionStatus and is listable. A null value is equivalent to "ALL".
PPL	Path Protection Label. If present in the request, this parameter will limit the retrieval to cross connects with a PPL among those specified. <i>PPL</i> is the AID PplId1 and is listable. A null value is equivalent to "ALL".
PPLORIGIN	Path Protection Label Origination Shelf. If present in the request, this parameter will limit the retrieval to cross connects with a PPL originating on the given shelf. <i>PPLORIGIN</i> is the AID ShelfAid and is listable. A null value is equivalent to "ALL".
HOPS	Hops. If set to Y, this parameter indicates that all the intermediate cross-connects between the source and destination endpoints should be returned. If set to N, only the endpoints are shown. <i>HOPS</i> is of type BoolYN . A null value defaults to "N".
SCOPE	Scope of retrieval. This will indicate how far to trace the cross-connect. <i>SCOPE</i> is of type Scope . A null value defaults to "SHELF".
INTERNAL	Internal Cross Connects. If present, this parameter specifies the retrieval of otherwise hidden cross connects created internally by the C7. It is intended for use only by system experts or C7 support personnel. <i>INTERNAL</i> is of type InternalCrsTypes and is listable. A null value defaults to "NONE".

Input Example

```
RTRV-CRS-VP:SYS1:N8-1-1-1-
VP3984:342:::TRFPROF=1,BCKPROF=1,PATH=WKG,PC=ANY,
    BWC=2,APP=IP,CONSTAT=FEMM,PPL=N8-1-1-32-1234,PPLORIGIN=N5-
2,HOPS=Y,
    SCOPE=NTWK,INTERNAL=ALL;
```

Output Format

SID	DATE	TIME
-----	------	------

```

M  CTAG COMPLD
  "<SrcVpAid> , <DstVpAid>:<CTYPE>:KEY=<KEY> , [ [ DROP=<DROP> , ]
[ TRFPROF=<TRFPROF> , ] [ BCKPROF=<BCKPROF> , ] [ BWC=<BWC> , ] [ PATH=<PATH> , ]
[ PC=<PC> , ] [ CONSTAT=<CONSTAT> , ] [ PPL=<PPL> ] ]"
;

```

Output Parameters

SrcVpAid	Source (From) Virtual Path Access Identifier. The address of the virtual path which is the source endpoint in the cross-connect. <i>SrcVpAid</i> is the AID VpAid .
DstVpAid	Destination (To) Virtual Path Access Identifier. The address of the virtual path which is the destination endpoint in the cross-connect. <i>DstVpAid</i> is the AID VpAid .
CTYPE	Connection Type. This parameter identifies whether the cross-connect is a one or two way connection. <i>CTYPE</i> is of type ConnectionType .
KEY	Key of Cross-Connect. This indicates the AID of the traffic source for the given cross-connect, scoped according to the SCOPE parameter. Thus if SCOPE=NTWK, the KEY value will be the AID at the network edge. KEY can be used to group hops of the same cross-connect when specifying HOPS=Y. <i>KEY</i> is the AID VpAid .
DROP	Drop Location. This parameter indicates locations where the cross-connect is to be dropped along the path to the endpoint. This is only present in drop-and-continue applications. <i>DROP</i> is the AID VpAid and is listable. <i>DROP</i> is optional.
TRFPROF	Traffic Profile. This parameter identifies which Traffic Profile which applies to the cross-connect. The Traffic Profile specifies the bandwidth parameters. Note if SCOPE was specified as NTWK this value will only be displayed if it stays consistent for all cross-connect hops across the network. <i>TRFPROF</i> is the AID TrfId . <i>TRFPROF</i> is optional.
BCKPROF	Backward Traffic Profile. This parameter identifies which Traffic Profile which applies to the backward direction of the cross-connect. If no BCKPROF is specified, then the service on the cross-connect is symmetrical and the TRFPROF is applied to both directions. Note if SCOPE was specified as NTWK this value will only be displayed if it stays consistent for all cross-connect hops across the network. <i>BCKPROF</i> is the AID TrfId . <i>BCKPROF</i> is optional.
BWC	Bandwidth Constraint. The Bandwidth Constraint used when creating the cross-connect. <i>BWC</i> is the AID BwcAid . <i>BWC</i> is optional.
PATH	Path. Protection path of the cross-connect being retrieved. <i>PATH</i> is of type Path . <i>PATH</i> is optional.
PC	Protection Class - Indicates whether the cross connect is uses Bridged or UnBridged protection. <i>PC</i> is of type ProtClass . <i>PC</i> is optional.
CONSTAT	Connection Status. This indicates the state of the cross-connect. Note if SCOPE was specified as NTWK this value will only be displayed if it stays consistent for all cross-connect hops across the network. <i>CONSTAT</i> is of type ConnectionStatus . <i>CONSTAT</i> is optional.
PPL	Path Protection Label. The label associated with the protection path. Note if SCOPE was specified as NTWK this value will not be displayed. <i>PPL</i> is the AID PplId1 and is listable. <i>PPL</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N32-3-12-1-1-VP763,N8-1-1-1-VP3984:2WAY:KEY=N8-3-8-1-1-
VP987,
DROP=N5-2-3-2-1-VP49-
VC23,TRFPROF=3,BCKPROF=6,BWC=1,PATH=WKG,PC=BR,
CONSTAT=FEMM,PPL=N8-1-1-32-1234"
;

```

Errors

This message generates all of the [Default Errors](#).

RTRV-CSTAT-ADSL

Name

RTRV-CSTAT-ADSL: Retrieve Call Status Asymmetric Digital Subscriber Line

Description

Category: ADSL Facility **Security:** Maintenance - read

This command is used to retrieve the call statistics of an ADSL Port.

Defined in GR-199.

Related Messages:

[DLT-ADSL](#)
[DLT-TMPLT-ADSL](#)
[ED-GOS-ADSL](#)
[ENT-GOS-ADSL](#)
[INIT-ADSL](#)
[INIT-REG-ADSL](#)
[REPT EVT ADSL](#)
[REPT RST ADSL](#)
[RST-ADSL](#)
[RTRV-ALM-ADSL](#)
[RTRV-GOS-ADSL](#)
[RTRV-TMPLT-ADSL](#)

[DLT-GOS-ADSL](#)
[ED-ADSL](#)
[ENT-ADSL](#)
[ENT-TMPLT-ADSL](#)
[INIT-PWR-ADSL](#)
[REPT ALM ADSL](#)
[REPT RMV ADSL](#)
[RMV-ADSL](#)
[RTRV-ADSL](#)
[RTRV-COND-ADSL](#)
[RTRV-PM-ADSL](#)

Input Format

```
RTRV-CSTAT-ADSL:[TID]:<AdslAid>:[CTAG];
```

Input Parameters

AdslAid ADSL Port Access Identifier. The address of the ADSL port being retrieved. *AdslAid* is the AID [TwentyFourPortLuNtwkRngAid](#) and is listable and rangeable. *AdslAid* must not be null.

Input Example

```
RTRV-CSTAT-ADSL:SYS3:N3-5-3-8:32;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<AdslAid>::[SRVTYPE=<SRVTYPE>],LNSTATE=<LNSTATE>,[ [ STAT=<STAT> , ] [ DM=<DM> , ]
[ TC=<TC> , ] [ DSAS0=<DSAS0> , ] [ DSLS0=<DSLS0> , ] [ DSAS1=<DSAS1> , ]
[ USLS0=<USLS0> , ] [ USLS1=<USLS1> , ] [ IDDS=<IDDS> , ] [ IDUS=<IDUS> , ]
[ SNRDS=<SNRDS> , ] [ SNRUS=<SNRUS> , ] [ LAUS=<LAUS> , ] [ LADS=<LADS> , ]
[ DSPF=<DSPF> , ] [ DSPI=<DSPI> , ] [ USPF=<USPF> , ] [ USPI=<USPI> , ] [ DSID=<DSID> , ]
[ USID=<USID> , ] [ XRDS=<XRDS> , ] [ XRUS=<XRUS> , ] [ APWR=<APWR> , ] [ PMST=<PMST> , ]
[ DSST=<DSST> , ] [ DSET=<DSET> , ] [ USST=<USST> , ] [ USET=<USET> ] ] "
;
```

Output Parameters

AdslAid ADSL Port Access Identifier. The address of the ADSL port being retrieved. *AdslAid* is the AID [TwentyFourPortLuAid](#).

SRVTYPE Service Type. This parameter specifies the ADSL operating modes that dictate the ADSL handshaking protocol, channel capacity, and other physical line characteristics based on ADSL specifications. *SRVTYPE* is of type [AdslCstatType](#). *SRVTYPE* is optional.

LNSTATE Line State. *LNSTATE* is of type [LineState](#).

STAT Initialization Status. This parameter indicates the status of the initialization. *STAT* is of type [InitStatus](#). *STAT* is optional.

DM Data Mode. This parameter identifies the data mode which the ADSL line is operating under. *DM* is of type [DataMode](#). *DM* is optional.

TC Trellis Coding. The acutal trellis coding based on the CO-RT negotiations. *TC* is of type [TrellisCoding](#). *TC* is optional.

DSAS0 Downstream Data Rate - AS0 Channel. The current downstream data rate for the AS0 Channel in units of kbps. *DSAS0* is a Integer. *DSAS0* is optional.

DSLS0 Downstream Data Rate - LS0 Channel. The current downstream data rate for the LS0 Channel in units of kbps. *DSLS0* is a Integer. *DSLS0* is optional.

DSAS1 Downstream Data Rate - AS1 Channel. The current downstream data rate for the AS1 Channel in units of kbps. *DSAS1* is a Integer. *DSAS1* is optional.

USLS0 Upstream Data Rate - LS0 Channel. The current upstream data rate for the LS0 Channel in units of kbps. *USLS0* is a Integer. *USLS0* is optional.

USLS1	Upstream Data Rate - LS1 Channel. The current upstream data rate for the LS1 Channel in units of kbps. <i>USLS1</i> is a Integer. <i>USLS1</i> is optional.
IDDS	Interleaved Delay Downstream. The actual downstream interleaved delay in milliseconds. Note: this parameter is valid only when a channel is in INTERLEAVED mode. When a channel is in FAST (or non-interleaved) mode, this parameter is 0 and is NOT applicable. When a channel is in FAST mode, there is a fixed delay of 2 ms and this parameter is not retrieveable from HW. <i>IDDS</i> is a Integer. <i>IDDS</i> is optional.
IDUS	Interleaved Delay Upstream. The actual upstream interleaved delay in milliseconds. Note: this parameter is valid only when a channel is in INTERLEAVED mode. When a channel is in FAST (or non-interleaved) mode, this parameter is 0 and is NOT applicable. When a channel is in FAST mode, there is a fixed delay of 2 ms and this parameter is not retrieveable from HW. <i>IDUS</i> is a Integer. <i>IDUS</i> is optional.
SNRDS	Signal to Noise Ratio Margin Downstream. The downstream SNR margin is calculated every 15 seconds during SHOWTIME through the use of EOC messages. An EOC message is sent to the ATU-R to read the SNR margin on the ATU-R side. <i>SNRDS</i> is a Integer. <i>SNRDS</i> is optional.
SNRUS	Signal to Noise Ratio Margin Upstream. The upstream SNR margin is calculated every 15 seconds during SHOWTIME. <i>SNRUS</i> is a Integer. <i>SNRUS</i> is optional.
LAUS	Line Attenuation Upstream. This parameter indicates the difference in total power transmitted by the ATU-R and the total power received by the ATU-C in dB. <i>LAUS</i> is of type LineAttn . <i>LAUS</i> is optional.
LADS	Line Attenuation Downstream. This parameter indicates the difference in total power transmitted by the ATU-C and the total power received by the ATU-R in dB. <i>LADS</i> is of type LineAttn . <i>LADS</i> is optional.
DSPF	Downstream Parity - Fast. This parameter indicates the current number of downstream parity (FEC redundancy) bytes per RS Codeword assigned to the non-interleaved (fast) buffer. <i>DSPF</i> is a Integer. <i>DSPF</i> is optional.
DSPI	Downstream Parity - Interleaved. This parameter indicates the current number of downstream parity (FEC redundancy) bytes per RS Codeword assigned to the interleaved buffer. <i>DSPI</i> is a Integer. <i>DSPI</i> is optional.
USPF	Upstream Parity - Fast. This parameter indicates the current number of upstream parity (FEC redundancy) bytes per RS Codeword assigned to the non-interleaved (fast) buffer. <i>USPF</i> is a Integer. <i>USPF</i> is optional.
USPI	Upstream Parity - Interleaved. This parameter indicates the current number of upstream parity (FEC redundancy) bytes per RS Codeword assigned to the interleaved buffer. <i>USPI</i> is a Integer. <i>USPI</i> is optional.
DSID	Downstream Interleaved Depth. This parameter identifies the downstream interleaved codeword depth. <i>DSID</i> is a Integer. <i>DSID</i> is optional.
USID	Upstream Interleaved Depth. This parameter identifies the upstream interleaved codeword depth. <i>USID</i> is a Integer. <i>USID</i> is optional.
XRDS	Maximum Rate Downstream. This parameter identifies the maximum downstream attainable aggregate rate in multiples of 32 kbps. <i>XRDS</i> is a Integer. <i>XRDS</i> is optional.
XRUS	Maximum Rate Upstream. This parameter identifies the maximum upstream attainable aggregate rate in multiples of 32 kbps. <i>XRUS</i> is a Integer. <i>XRUS</i> is optional.
APWR	ATU-C Power. This parameter will reflect the current total output power in dBm <i>APWR</i> is a

Integer. *APWR* is optional.

PMST	Power Management State. <i>PMST</i> is of type AdslPowerMgmtStates . <i>PMST</i> is optional.
DSST	Downstream Start Tone. <i>DSST</i> is a Integer. <i>DSST</i> is optional.
DSET	Downstream End Tone. <i>DSET</i> is a Integer. <i>DSET</i> is optional.
USST	Upstream Start Tone. <i>USST</i> is a Integer. <i>USST</i> is optional.
USET	Upstream End Tone. <i>USET</i> is a Integer. <i>USET</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-5-3-
8::SRVTYPE=ADSL2+,LNSTATE=ACTIVE,STAT=NATU,DM=ATM,TC=ENABLED,
DSAS0=255,DSL0=255,DSAS1=255,USLS0=255,USLS1=255,IDD=255,IDUS=255,
SNRDS=-64,SNRUS=-
64,LAUS=63,LADS=63,DSPF=255,DSPI=255,USPF=255,USPI=255,
DSID=512,USID=512,XRDS=255,XRUS=512,APWR=-
31,PMST=L0,DSST=32,DSET=511,
USST=6,USET=31"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-CSTAT-HDSL

Name

RTRV-CSTAT-HDSL: Retrieve Call Status High bit rate Digital Subscriber Line

Description

Category: HDSL Facility **Security:** Maintenance - read

This command is used to retrieve the call statistics of an HDSL Port.

Defined in GR-199.

Related Messages:

[DLT-GOS-HDSL](#)
[ED-GOS-HDSL](#)
[ENT-GOS-HDSL](#)

[DLT-HDSL](#)
[ED-HDSL](#)
[ENT-HDSL](#)

[INIT-HDSL](#)
[OPR-LPBK-HDSL](#)
[REPT EVT HDSL](#)
[REPT RST HDSL](#)
[RMV-HDSL](#)
[RTRV-ALM-HDSL](#)
[RTRV-GOS-HDSL](#)
[RTRV-HTU](#)

[INIT-REG-HDSL](#)
[REPT ALM HDSL](#)
[REPT RMV HDSL](#)
[RLS-LPBK-HDSL](#)
[RST-HDSL](#)
[RTRV-COND-HDSL](#)
[RTRV-HDSL](#)
[RTRV-PM-HDSL](#)

Input Format

```
RTRV-CSTAT-HDSL:[TID]:<HdslRngAid>:[CTAG];
```

Input Parameters

HdslRngAid HDSL Port Access Identifier. The address of the HDSL port being retrieved. *HdslRngAid* is the AID [SixPortLuNtwkRngAid](#) and is listable and rangeable. *HdslRngAid* must not be null.

Input Example

```
RTRV-CSTAT-HDSL:SYS:N2-3-1-1:5;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<HdslAid>:[LOOP1STATE=<LOOP1STATE>,][LOOP2STATE=<LOOP2STATE>,]
[REPEATERS=<REPEATERS>,[N1SNR=<N1SNR>,[N2SNR=<N2SNR>,[F1SNR=<F1SNR>,
[F2SNR=<F2SNR>,[N1AT=<N1AT>,[N2AT=<N2AT>,[F1AT=<F1AT>,[F2AT=<F2AT>]]
";
;
```

Output Parameters

HdslAid HDSL Port Access Identifier. The address of the HDSL port being retrieved. *HdslAid* is the AID [SixPortLuAid](#).

LOOP1STATE Current line state - loop 1. *LOOP1STATE* is of type [HdslLineState](#). *LOOP1STATE* is optional.

LOOP2STATE Current line state - loop 2. *LOOP2STATE* is of type [HdslLineState](#). *LOOP2STATE* is optional.

REPEATERS Number of Repeaters, (0 - 15) *REPEATERS* is a Integer. *REPEATERS* is optional.

N1SNR Near End SNR Margin - Loop 1. *N1SNR* is a Integer. *N1SNR* is optional.

N2SNR Near End SNR Margin - Loop 2. *N2SNR* is a Integer. *N2SNR* is optional.

F1SNR	Far End SNR Margin - Loop 1. <i>F1SNR</i> is a Integer. <i>F1SNR</i> is optional.
F2SNR	Far End SNR Margin - Loop 2. <i>F2SNR</i> is a Integer. <i>F2SNR</i> is optional.
N1AT	Near End Loop Attenuation - Loop 1. <i>N1AT</i> is a Integer. <i>N1AT</i> is optional.
N2AT	Near End Loop Attenuation - Loop 2. <i>N2AT</i> is a Integer. <i>N2AT</i> is optional.
F1AT	Far End Loop Attenuation - Loop 1. <i>F1AT</i> is a Integer. <i>F1AT</i> is optional.
F2AT	Far End Loop Attenuation - Loop 2. <i>F2AT</i> is a Integer. <i>F2AT</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N2-3-1-
1::LOOP1STATE=ACTIVE,LOOP2STATE=ACTIVE,REPEATERS=3,N1SNR=5,N2SNR=6,
F1SNR=8,F2SNR=-1,N1AT=50,N2AT=50,F1AT=55,F2AT=-1;
;"
```

Errors

This message generates all of the [Default Errors](#).

RTRV-CSTAT-SIPT0

Name

RTRV-CSTAT-SIPT0: Retrieve Call Status SIPT0

Description

Category: VOIP **Security:** Maintenance - read

This command is used to retrieve the call statistics of a SIP line.

Input Format

```
RTRV-CSTAT-SIPT0:[TID]:<SipT0Aid>:[CTAG]:::[SRVST=<SRVST>];
```

Input Parameters

SipT0Aid The AID of a SIPT0 line. *SipT0Aid* is the AID [SipT0PortRngAid](#) and is listable and rangeable. *SipT0Aid* must not be null.

SRVST Server Status. This can be supplied on input to filter the responses. *SRVST* is of type [SipT0ServiceState](#) and is listable. A null value is equivalent to "ALL".

Input Example

```
RTRV-CSTAT-SIPT0:SYS:N1-2-3-ALL:123:::SRVST=REGISTERED;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<SipT0Aid>:::[ SRVST=<SRVST>, ][ VOIPST=<VOIPST>, ][ CALLST=<CALLST>, ]
[ IP=<IP>, ][ IPMSK=<IPMSK>, ][ GADDR=<GADDR>, ][ MAC=<MAC> ] "
;
```

Output Parameters

SipT0Aid The AID of a SIPT0 line. *SipT0Aid* is the AID [SipT0PortAid](#).

SRVST Server Status. *SRVST* is of type [SipT0ServiceState](#). *SRVST* is optional.

VOIPST *VOIPST* is of type [SipT0VoipState](#). *VOIPST* is optional.

CALLST CALL STate. The current call state of the subscriber. *CALLST* is of type [SipT0CallState](#). *CALLST* is optional.

IP *IP* is the AID [IpAid](#). *IP* is optional.

IPMSK *IPMSK* is the AID [IpAid](#). *IPMSK* is optional.

GADDR *GADDR* is the AID [IpAid](#). *GADDR* is optional.

MAC *MAC* is the AID [MacAid](#). *MAC* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-2-3-1-23-
SIP2::SRVST=REGISTERED,VOIPST=ACTIVE,CALLST=BUSY,
IP=122.131.10.25,IPMSK=255.255.255.0,GADDR=122.131.10.1,
MAC=00-10-95-00-00-01"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-CSTAT-T0

Name

RTRV-CSTAT-T0: Retrieve Call Status Digital Signal Zero

Description

Category: DS0 Facility **Security:** Maintenance - read

This command retrieves the connection status of a T0.

Defined by Calix.

Related Messages:

[DLT-CRS-T0](#)
[ED-T0](#)
[ENT-T0](#)
[REPT EVT T0](#)
[REPT RST T0](#)
[RST-T0](#)
[RTRV-COND-T0](#)
[RTRV-T0](#)

[DLT-T0](#)
[ENT-CRS-T0](#)
[REPT ALM T0](#)
[REPT RMV T0](#)
[RMV-T0](#)
[RTRV-ALM-T0](#)
[RTRV-CRS-T0](#)

Input Format

```
RTRV-CSTAT-T0:[TID]:<T0Aid>:[CTAG];
```

Input Parameters

T0Aid T0 Access Identifier. The address of the T0 for which the call status is being retrieved. *T0Aid* is the AID [TwentyFourPortLuAid](#) and is listable and rangeable. *T0Aid* must not be null.

Input Example

```
RTRV-CSTAT-T0:SYS1:N3-4-3-4:323;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<T0Aid>::CONN=<CONN>, [[RXSIG=<RXSIG>, ][TXSIG=<TXSIG>, ][RCVR=<RCVR>]]"
;"
```

Output Parameters

T0Aid T0 Access Identifier. The address of the T0 for which the call status is retrieved. *T0Aid* is the AID [TwentyFourPortLuAid](#).

- CONN** Connection Status. This parameter indicates if the a call is currently active. *CONN* is of type [BoolYN](#).
- RXSIG** Receive Signal. This parameter indicates the current signaling in the receive direction. *RXSIG* is a String. *RXSIG* is optional.
- TXSIG** Transmit Signal. This parameter indicates the current signaling in the transmit direction. *TXSIG* is a String. *TXSIG* is optional.
- RCVR** Receiver State. *RCVR* is of type [ReceiverState](#). *RCVR* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-4-3-4::CONN=Y,RXSIG=0111, TXSIG=0110, RCVR=OFFHOOK"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-CSTAT-VC

Name

RTRV-CSTAT-VC: Retrieve CSTAT VC

Description

Category: Virtual Facility **Security:** Maintenance - read

This command retrieves the connection status of a VC.

Defined by Calix.

Related Messages:

[ACT-PROTN-VC](#)
[DLT-CRS-VC](#)
[DLT-PP](#)
[ED-CRS-VC](#)
[ED-PROF-TRF](#)
[ENT-CRS-VP](#)
[ENT-PROF-TRF](#)

[ACT-PROTN-VP](#)
[DLT-CRS-VP](#)
[DLT-PROF-TRF](#)
[ED-CRS-VP](#)
[ENT-CRS-VC](#)
[ENT-PP](#)
[INIT-CSTAT-VC](#)

INIT-CSTAT-VP	INJ-LPBK-VC
INJ-LPBK-VP	MV-CRS-VC
MV-CRS-VP	OPR-CC-VC
OPR-CC-VP	REPT ALM PP
REPT EVT PP	REPT EVT VC
REPT EVT VP	REPT RMV PP
REPT RST PP	RLS-CC-VC
RLS-CC-VP	RMV-PP
RST-PP	RTRV-ALM-PP
RTRV-COND-PP	RTRV-CRS-VC
RTRV-CRS-VP	RTRV-CSTAT-VP
RTRV-PP	RTRV-PROF-TRF
RTRV-VTI	

Input Format

```
RTRV-CSTAT-VC:[TID]:<VcAid>:[CTAG];
```

Input Parameters

VcAid Virtual Circuit (VC) Access Identifier. The address of the virtual circuit for which the call statistics are to be retrieved. *VcAid* is the AID [VcId6](#). *VcAid* must not be null.

Input Example

```
RTRV-CSTAT-VC:SYS1:N8-3-8-1-VP100-VC55:342;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<VcAid>::[[ INGCC=<INGCC>, ][ EGCC=<EGCC>, ][ INGNCC=<INGNCC>, ]
[ INGLPCC=<INGLPCC>, ][ EGLPCC=<EGLPCC>, ][ INGLPFC=<INGLPFC>, ]
[ EGLPFC=<EGLPFC>, ][ INGA5FC=<INGA5FC>, ][ EGA5FC=<EGA5FC>, ]
[ INGDISCC=<INGDISCC>, ][ EGDISCC=<EGDISCC>, ][ INGA5DISFC=<INGA5DISFC>, ]
[ EGA5DISFC=<EGA5DISFC>, ][ INGA5CRCDISFC=<INGA5CRCDISFC> ]"
;
```

Output Parameters

VcAid	Virtual Circuit (VC) Access Identifier. The address of the virtual circuit for which the call statistics are being retrieved. <i>VcAid</i> is the AID VcId6 .
INGCC	Total ingress cell count. <i>INGCC</i> is a String. <i>INGCC</i> is optional.
EGCC	Total egress cell count. <i>EGCC</i> is a String. <i>EGCC</i> is optional.
INGNCC	Ingress non-conforming cell count. If the VC uses a GFR traffic profile, this actually indicates the non-conforming frame count instead of cell count. <i>INGNCC</i>

is a String. *INGNCC* is optional.

INGLPCC	Ingress low-priority cell count. <i>INGLPCC</i> is a String. <i>INGLPCC</i> is optional.
EGLPCC	Egress low-priority cell count. <i>EGLPCC</i> is a String. <i>EGLPCC</i> is optional.
INGLPFC	Ingress low-priority frame count. <i>INGLPFC</i> is a String. <i>INGLPFC</i> is optional.
EGLPFC	Egress low-priority frame count. <i>EGLPFC</i> is a String. <i>EGLPFC</i> is optional.
INGA5FC	Ingress AAL5 Frame Count <i>INGA5FC</i> is a String. <i>INGA5FC</i> is optional.
EGA5FC	Egress AAL5 Frame Count <i>EGA5FC</i> is a String. <i>EGA5FC</i> is optional.
INGDISCC	Ingress discarded cell count. <i>INGDISCC</i> is a String. <i>INGDISCC</i> is optional.
EGDISCC	Egress discarded cell count. <i>EGDISCC</i> is a String. <i>EGDISCC</i> is optional.
INGA5DISFC	Ingress AAL5 Discarded Frame Count <i>INGA5DISFC</i> is a String. <i>INGA5DISFC</i> is optional.
EGA5DISFC	<i>EGA5DISFC</i> is a String. <i>EGA5DISFC</i> is optional.
INGA5CRCDISFC	<i>INGA5CRCDISFC</i> is a String. <i>INGA5CRCDISFC</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N8-3-8-1-VP100-
VC55::INGCC=21789,EGCC=32444,INGNCC=34,INGLPCC=0,EGLPCC=0,
INGLPFC=0,EGLPFC=0,INGA5FC=0,EGA5FC=0,INGDISCC=1,EGDISCC=5,INGA5DISFC=0,
EGA5DISFC=2,INGA5CRCDISFC=0"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-CSTAT-VP

Name

RTRV-CSTAT-VP: Retrieve Call Status Virtual Path

Description

Category: Virtual Facility **Security:** Maintenance - read

This command retrieves the connection status of a VP.

Defined by Calix.

Related Messages:

[ACT-PROTN-VC](#)
[DLT-CRS-VC](#)
[DLT-PP](#)
[ED-CRS-VC](#)
[ED-PROF-TRF](#)
[ENT-CRS-VP](#)
[ENT-PROF-TRF](#)
[INIT-CSTAT-VP](#)
[INJ-LPBK-VP](#)
[MV-CRS-VP](#)
[OPR-CC-VP](#)
[REPT EVT PP](#)
[REPT EVT VP](#)
[REPT RST PP](#)
[RLS-CC-VP](#)
[RST-PP](#)
[RTRV-COND-PP](#)
[RTRV-CRS-VP](#)
[RTRV-PP](#)
[RTRV-VTI](#)

[ACT-PROTN-VP](#)
[DLT-CRS-VP](#)
[DLT-PROF-TRF](#)
[ED-CRS-VP](#)
[ENT-CRS-VC](#)
[ENT-PP](#)
[INIT-CSTAT-VC](#)
[INJ-LPBK-VC](#)
[MV-CRS-VC](#)
[OPR-CC-VC](#)
[REPT ALM PP](#)
[REPT EVT VC](#)
[REPT RMV PP](#)
[RLS-CC-VC](#)
[RMV-PP](#)
[RTRV-ALM-PP](#)
[RTRV-CRS-VC](#)
[RTRV-CSTAT-VC](#)
[RTRV-PROF-TRF](#)

Input Format

```
RTRV-CSTAT-VP:[TID]:<VpAid>:[CTAG];
```

Input Parameters

VpAid Virtual Path (VP) Access Identifier. The address of the virtual path for which the call statistics are to be retrieved. *VpAid* is the AID [VpAid](#). *VpAid* must not be null.

Input Example

```
RTRV-CSTAT-VP:SYS1:N8-3-8-1-VP100:342;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<VpAid>::[[ INGCC=<INGCC>, ][ EGCC=<EGCC>, ][ INGNCC=<INGNCC>, ]
[ INGLPCC=<INGLPCC>, ][ EGLPCC=<EGLPCC>, ][ INGLPFC=<INGLPFC>, ]
[ EGLPFC=<EGLPFC>, ][ INGA5FC=<INGA5FC>, ][ EGA5FC=<EGA5FC>, ]
[ INGDISCC=<INGDISCC>, ][ EGDISCC=<EGDISCC>, ][ INGA5DISFC=<INGA5DISFC>, ]
[ EGA5DISFC=<EGA5DISFC> ] ]"
```

Output Parameters

VpAid	Virtual Path (VP) Access Identifier. The address of the virtual path for which the call statistics are being retrieved. <i>VpAid</i> is the AID VpAid .
INGCC	Total ingress cell count. <i>INGCC</i> is a String. <i>INGCC</i> is optional.
EGCC	Total egress cell count. <i>EGCC</i> is a String. <i>EGCC</i> is optional.
INGNCC	Ingress non-conforming cell count. If the VC uses a GFR traffic profile, this actually indicates the non-conforming frame count instead of cell count. <i>INGNCC</i> is a String. <i>INGNCC</i> is optional.
INGLPCC	Ingress low-priority cell count. <i>INGLPCC</i> is a String. <i>INGLPCC</i> is optional.
EGLPCC	Egress low-priority cell count. <i>EGLPCC</i> is a String. <i>EGLPCC</i> is optional.
INGLPFC	Ingress low-priority frame count. <i>INGLPFC</i> is a String. <i>INGLPFC</i> is optional.
EGLPFC	Egress low-priority frame count. <i>EGLPFC</i> is a String. <i>EGLPFC</i> is optional.
INGA5FC	Ingress AAL5 Frame Count <i>INGA5FC</i> is a String. <i>INGA5FC</i> is optional.
EGA5FC	Egress AAL5 Frame Count <i>EGA5FC</i> is a String. <i>EGA5FC</i> is optional.
INGDISCC	Ingress discarded cell count. <i>INGDISCC</i> is a String. <i>INGDISCC</i> is optional.
EGDISCC	Egress discarded cell count. <i>EGDISCC</i> is a String. <i>EGDISCC</i> is optional.
INGA5DISFC	Ingress AAL5 Discarded Frame Count <i>INGA5DISFC</i> is a String. <i>INGA5DISFC</i> is optional.
EGA5DISFC	Egress AAL5 Discarded Frame Count <i>EGA5DISFC</i> is a String. <i>EGA5DISFC</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N8-3-8-1-
VP100::INGCC=21789,EGCC=32444,INGNCC=34,INGLPCC=0,EGLPCC=0,
INGLPFC=0,EGLPFC=0,INGA5FC=0,EGA5FC=0,INGDISCC=1,EGDISCC=5,INGA5DISFC=0,
EGA5DISFC=2"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-CVIDREG

Name

RTRV-CVIDREG: Retrieve CVIDREG

Description

Category: IP **Security:** Memory Admin - read

Not supported in release 6.0.

Related Messages:

DLT-CVIDREG	DLT-IGMP-JOIN
DLT-MACHOST	DLT-VB
DLT-VBPORT	DLT-VLAN-VBPORT
DLT-VR	DLT-VRPORT
ED-CVIDREG	ED-IGMP
ED-MACHOST	ED-VB
ED-VBPORT	ED-VLAN-VBPORT
ED-VR	ENT-CVIDREG
ENT-IGMP-JOIN	ENT-MACHOST
ENT-VB	ENT-VBPORT
ENT-VLAN-VBPORT	ENT-VR
ENT-VRPORT	REPT ALM VB
REPT ALM VR	REPT EVT VB
REPT EVT VR	RTRV-ALM-VB
RTRV-ALM-VR	RTRV-IGMP
RTRV-IGMP-JOIN	RTRV-MACHOST
RTRV-VB	RTRV-VBPORT
RTRV-VLAN-VBPORT	RTRV-VR
RTRV-VRPORT	

Input Format

RTRV-CVIDREG:[TID]:<CVidRegAid>:[CTAG];

Input Parameters

CVidRegAid *CVidRegAid* is the AID [CvidregId](#) and is listable and rangeable. *CVidRegAid* must not be null.

Input Example

RTRV-CVIDREG:SYS:N2-1-VB3-5-4:123;

Output Format

```

SID DATE TIME
M CTAG COMPLD
" <CVidRegAid> :: SVID=<SVID>, PRIO=<PRIO>, RCVID=<RCVID> "
;

```

Output Parameters

CVidRegAid *CVidRegAid* is the AID [CVidRegAid](#).

SVID *SVID* is a Integer.

PRIO *PRIO* is of type [PrioBits](#).

RCVID *RCVID* is of type [RCVid](#).

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
" N2-1-VB3-5-4 :: SVID=9, PRIO=3, RCVID=6 "
;

```

Errors

This message generates all of the [Default Errors](#).

RTRV-DHCP-LEASE

Name

RTRV-DHCP-LEASE: Retrieve DHCP LEASE

Description

Category: IP **Security:** Memory Admin - read

This command will retrieve the lease information for DHCP hosts. A specific host can be specified using either the IP or MAC parameter on input. An IP address is provided if and only if the MACAID is "ALL".

Defined by Calix.

Related Messages:

[DLT-DHCP-OUI](#)

[DLT-IP-IF](#)

[DLT-IP-ROUTE](#)
[DLT-SUBIF-BINDING](#)
[DLT-VID-IRCLOC](#)
[DLT-VID-SVC](#)
[DLT-VODDSTLU](#)
[DLT-VODSRCLU](#)
[ED-ARP](#)
[ED-VID-CHAN](#)
[ED-VID-SVC](#)
[ENT-DHCP-OUI](#)
[ENT-IP-ROUTE](#)
[ENT-SUBIF-BINDING](#)
[ENT-VID-IRCLOC](#)
[ENT-VID-SVC](#)
[REPT EVT VODFLOW](#)
[RTRV-DHCP-OUI](#)
[RTRV-IP-ROUTE](#)
[RTRV-SUBIF-BINDING](#)
[RTRV-VID-IRCLOC](#)
[RTRV-VID-SVC](#)
[RTRV-VODDSTLU](#)
[RTRV-VODSRCLU](#)

[DLT-IPIF-PORT](#)
[DLT-VID-CHAN](#)
[DLT-VID-SUB](#)
[DLT-VODCLNT](#)
[DLT-VODFLOW](#)
[DLT-VODSVR](#)
[ED-IPIF-PORT](#)
[ED-VID-SUB](#)
[ED-VODDSTLU](#)
[ENT-IP-IF](#)
[ENT-IPIF-PORT](#)
[ENT-VID-CHAN](#)
[ENT-VID-SUB](#)
[ENT-VODDSTLU](#)
[RTRV-ARP](#)
[RTRV-IP-IF](#)
[RTRV-IPIF-PORT](#)
[RTRV-VID-CHAN](#)
[RTRV-VID-SUB](#)
[RTRV-VODCLNT](#)
[RTRV-VODFLOW](#)
[RTRV-VODSVR](#)

Input Format

```
RTRV-DHCP-
LEASE : [ TID ] : <MACAID> : [ CTAG ] :: RTRAID=<RTRAID>, [ [ IP=<IP>, ]
[ VLAN=<VLAN>, ] [ PORT=<PORT> ] ] ;
```

Input Parameters

MACAID *MACAID* is the AID [MacRngAid](#) and is listable and rangeable. *MACAID* must not be null.

RTRAID *RTRAID* is the AID [RouterAid](#). *RTRAID* must not be null.

IP The IP address this host is using. *IP* is the AID [IpAid](#). A null value is equivalent to "ALL".

VLAN The request may be filtered to a specific VLAN. *VLAN* is the AID [PacketVlanAid](#). A null value is equivalent to "ALL".

PORT The request may be filtered to a specific port. *PORT* is the AID [LeaseId](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-DHCP-LEASE:SYS2:01-23-45-67-89-AB:123:::RTRAID=N1-2-
3,IP=1.2.3.4,
VLAN=N1-2-VB1-VLAN2,PORT=N1-2-3-22;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<MAC>:: [ RTRAID=<RTRAID>, ] [ IP=<IP>, ] [ PORT=<PORT>, ] [ VLAN=<VLAN>, ]
[ LEASETIME=<LEASETIME>, ] [ DHORT=<DHORT>, ] [ DHODNS=<DHODNS>, ]
[ EXPTS=<EXPTS>, ] [ FIRSTACQTS=<FIRSTACQTS>, ] [ LASTRENTS=<LASTRENTS> ] "
;
```

Output Parameters

MAC	<i>MAC</i> is the AID MacAid .
RTRAID	<i>RTRAID</i> is the AID RouterAid . <i>RTRAID</i> is optional.
IP	The IP address this host is using. <i>IP</i> is the AID IpAid . <i>IP</i> is optional.
PORT	<i>PORT</i> is the AID LeaseId . <i>PORT</i> is optional.
VLAN	<i>VLAN</i> is the AID PacketVlanAid . <i>VLAN</i> is optional.
LEASETIME	Lease Time. The lease time (in seconds) associated with this host. <i>LEASETIME</i> is a Integer. <i>LEASETIME</i> is optional.
DHORT	Default Router for client. <i>DHORT</i> is the AID IpAid . <i>DHORT</i> is optional.
DHODNS	<i>DHODNS</i> is the AID IpAid . <i>DHODNS</i> is optional.
EXPTS	ExpirationTimeStamp: Parameter available in 4.1 and later releases. <i>EXPTS</i> is in the format "Date Time" (yr-mon-day hr-min-sec). <i>EXPTS</i> is a String. <i>EXPTS</i> is optional.
FIRSTACQTS	First AcquiredTimeStamp: Parameter available in 4.1 and later releases. <i>FIRSTACQTS</i> is of format "Date Time" (yr-mon-day hr-min-sec). <i>FIRSTACQTS</i> is a String. <i>FIRSTACQTS</i> is optional.
LASTRENTS	Last RenewalTimeStamp: Parameter available in 4.1 and later releases. <i>LASTRENTS</i> is of format "Date Time" (yr-mon-day hr-min-sec). <i>LASTRENTS</i> is a String. <i>LASTRENTS</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"01-23-45-67-89-AB::RTRAID=N1-2-3,IP=1.2.3.4,PORT=N1-2-3-22,
VLAN=N1-2-VB1-
VLAN2,LEASETIME=10,DHORT=1.2.3.4,DHODNS=1.2.3.4,
EXPTS=\\"05-10-22 22-55-00\\",FIRSTACQTS=\\"05-10-22 22-55-
00\\",
LASTRENTS=\\"05-10-22 22-55-00\\"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-DHCP-OUI

Name

RTRV-DHCP-OUI: Retrieve DHCP OUI

Description

Category: IP **Security:** Memory Admin - read

This command retrieves provisioned information that allows the DHCP server to forward discover requests to the appropriate relay server based on the OUI in the discover message. The relay server is identified by the gateway IP address. The type of equipment identified by the OUI is also provisioned by this command.

The OUI 00-00-00 has the following special meaning. If the OUI in the discover message is not associated with a relay server, then use the relay server associated with OUI 00-00-00 if this association exists. Otherwise, the discover request is not forwarded.

Related Messages:

DLT-DHCP-OUI	DLT-IP-IF
DLT-IP-ROUTE	DLT-IPIF-PORT
DLT-SUBIF-BINDING	DLT-VID-CHAN
DLT-VID-IRCLOC	DLT-VID-SUB
DLT-VID-SVC	DLT-VODCLNT
DLT-VODDSTLU	DLT-VODFLOW
DLT-VODSRCLU	DLT-VODSVR
ED-ARP	ED-IPIF-PORT
ED-VID-CHAN	ED-VID-SUB
ED-VID-SVC	ED-VODDSTLU
ENT-DHCP-OUI	ENT-IP-IF
ENT-IP-ROUTE	ENT-IPIF-PORT
ENT-SUBIF-BINDING	ENT-VID-CHAN
ENT-VID-IRCLOC	ENT-VID-SUB
ENT-VID-SVC	ENT-VODDSTLU
REPT EVT VODFLOW	RTRV-ARP
RTRV-DHCP-LEASE	RTRV-IP-IF
RTRV-IP-ROUTE	RTRV-IPIF-PORT
RTRV-SUBIF-BINDING	RTRV-VID-CHAN
RTRV-VID-IRCLOC	RTRV-VID-SUB
RTRV-VID-SVC	RTRV-VODCLNT
RTRV-VODDSTLU	RTRV-VODFLOW
RTRV-VODSRCLU	RTRV-VODSVR

Input Format

```
RTRV-DHCP-OUI:[TID]:<OUIAID>:[CTAG]:::RTRAID=<RTRAID>;
```

Input Parameters

OUIAID *OUIAID* is the AID [QuiAidRng](#). *OUIAID* must not be null.

RTRAID *RTRAID* is the AID [SlotLuAid](#). *RTRAID* must not be null.

Input Example

```
RTRV-DHCP-OUI:SYS3:01-02-03:CTAG:::RTRAID=N1-2-3;;
```

Output Format

```
    SID DATE TIME
M    CTAG COMPLD
    "<OUIAID>::RTRAID=<RTRAID>, [GADDR=<GADDR>], OUITYPE=<OUITYPE>"
;
```

Output Parameters

OUIAID Organizationally Unique Identifier. The OUI is first 3 octets of the MAC address and identifies the vendor. *OUIAID* is the AID [QuiAid](#).

RTRAID *RTRAID* is the AID [SlotLuAid](#).

GADDR *GADDR* is the AID [IpAid](#). *GADDR* is optional.

OUITYPE OUI Equipment type. *OUITYPE* is of type [IpHostEqpfType](#).

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
    "01-02-03::RTRAID=N1-1-1, GADDR=1.2.3.4, OUITYPE=STB"
;
```

Errors

This message generates all of the [Default Errors](#).

Name

RTRV-DHCPSVR: Retrieve DHCPSVR

Description

Category: IP **Security:** Memory Admin - read

Retrieve DHCP Server. Allows user to retrieve existing DHCP Servers

Input Format

```
RTRV-DHCPSVR:[TID]:<IP>:[CTAG]:::[RTRAID=<RTRAID>];
```

Input Parameters

IP IP Address of the DHCP Server IP is the AID. *IP* is the AID [IpRngAid](#) and is listable. *IP* must not be null.

RTRAID *RTRAID* is the AID [RouterAid](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-DHCPSVR:SYS1:192.168.1.1:5:::RTRAID=N1-1-VR3;
```

Output Format

```
    SID DATE TIME
M    CTAG COMPLD
    "<IP>:::[ RTRAID=<RTRAID>, ][ OPTION82=<OPTION82> ]"
;
```

Output Parameters

IP IP Address of the DHCP Server *IP* is the AID [IpAid](#).

RTRAID *RTRAID* is the AID [RouterAid](#). *RTRAID* is optional.

OPTION82 DHCP Option 82 - This feature adds a unique identifier in the relay agent information option. *OPTION82* is of type [Option82](#). *OPTION82* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
    "192.168.1.1:::RTRAID=N1-1-VR3,OPTION82=DFLT"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-DLPROF

Name

RTRV-DLPROF: Retrieve DLPROF

Description

Category: TDM Services **Security:** Memory Admin - read

This command will retrieve the parameters associated with the IDLC Data Link Profile.

Defined by Calix and modeled after RTRV-rr in GR-199.

Related Messages:

[ED-DLPROF](#)

Input Format

```
RTRV-DLPROF:[TID]:<DLProfileAid>:[CTAG];
```

Input Parameters

DLProfileAid Data Link Profile Access Identifier. The address of the GR-303 data link profile entity. *DLProfileAid* is the AID [DLProfileAid](#) and is listable. *DLProfileAid* must not be null.

Input Example

```
RTRV-DLPROF:SYS2:N3-4-IG4-1:328;
```

Output Format

```
      SID DATE TIME
M      CTAG COMPLD
"<DLProfileAid>::MAXIFRAME=<MAXIFRAME>,N200=<N200>,T200=<T200>,
   T203=<T203>"
```

Output Parameters

DLProfileAid	Data Link Profile Access Identifier. The address of the GR-303 data link profile entity. <i>DLProfileAid</i> is the AID DLProfileAid .
MAXIFRAME	Maximum Information Frames. This specifies the maximum number of information (I) frames that may be outstanding at Layer 2 using LAPD. <i>MAXIFRAME</i> is of type MaxIFrames .
N200	N200. This specifies the maximum number of retransmissions for a frame at Layer 2 using LAPD. <i>N200</i> is of type N200 .
T200	T200. This specifies the maximum length of time in milliseconds that a data link layer entity will wait for acknowledgement of a transmitted frame. <i>T200</i> is of type T200 .
T203	T203. This specifies the maximum time in seconds that a data link is allowed to remain idle before verifying the path between the IDT and the RDT. <i>T203</i> is of type T203 .

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-4-IG4-1::MAXIFRAME=7,N200=3,T200=150,T203=30"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-DLSTAT-GR303

Name

RTRV-DLSTAT-GR303: Retrieve DLSTAT GR303

Description

Category: TDM Services **Security:** Memory Admin - read

This command retrieves the state of the EOC/TMC data links for a GR303 interface group.

Defined by Calix.

Related Messages:

[ALW-Swdx-GR303](#)
[DLT-CRS-T0](#)
[DLT-GR8](#)
[DLT-T1TG](#)

[ALW-Swdx-T1TG](#)
[DLT-GR303](#)
[DLT-IG-DS1](#)
[ED-GR303](#)

ED-GR8	ENT-CRS-T0
ENT-GR303	ENT-GR8
ENT-IG-DS1	ENT-T1TG
INH-Swdx-GR303	INH-Swdx-T1TG
REPT ALM GR303	REPT ALM T1TG
REPT EVT GR303	REPT EVT T1TG
REPT SW GR303	REPT SW T1TG
RTRV-ALM-GR303	RTRV-ALM-T1TG
RTRV-COND-GR303	RTRV-COND-T1TG
RTRV-CRS-T0	RTRV-DLSTAT-T1TG
RTRV-GR303	RTRV-GR8
RTRV-IG-DS1	RTRV-T1TG
SW-DX-GR303	SW-DX-T1TG

Input Format

```
RTRV-DLSTAT-GR303:[TID]:<IgLinkAid>:[CTAG];
```

Input Parameters

IgLinkAid Data Link Access Identifier. The address of the GR303 interface group or a specific data link within the interface for which the status is to be returned. *IgLinkAid* is the AID [IgLinkRngAid](#) and is listable and rangeable. *IgLinkAid* must not be null.

Input Example

```
RTRV-DLSTAT-GR303:SYS1:N4-1-IG4-ALL:555;
```

Output Format

```
    SID DATE TIME
M  CTAG COMPLD
  "<IgLinkAid>,<EocTmcAid>:<LINKST>
";
```

Output Parameters

IgLinkAid Data Link Access Identifier. The address of the GR303 interface group or a specific data link within the interface for which the status is to be returned. *IgLinkAid* is the AID [IgLinkAid](#).

EocTmcAid Physical Access Identifier. The address of the physical location of the EOC/TMC data link. *EocTmcAid* is the AID [EocTmcAid](#).

LINKST Link Status. This parameter indicates the status of the data link. *LINKST* is of type [LinkState](#).

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N4-1-IG4-EOC-P,N4-1-5-2-12:ACT-UP"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-DLSTAT-T1TG

Name

RTRV-DLSTAT-T1TG: Retrieve Data Link Status T1 Transport Group

Description

Category: TDM Services **Security:** Memory Admin - read

This command retrieves the state of the EOC/TMC data links for a T1 Transport interface group.

Defined by Calix.

Related Messages:

ALW-Swdx-GR303	ALW-Swdx-T1TG
DLT-CRS-T0	DLT-GR303
DLT-GR8	DLT-IG-DS1
DLT-T1TG	ED-GR303
ED-GR8	ENT-CRS-T0
ENT-GR303	ENT-GR8
ENT-IG-DS1	ENT-T1TG
INH-Swdx-GR303	INH-Swdx-T1TG
REPT ALM GR303	REPT ALM T1TG
REPT EVT GR303	REPT EVT T1TG
REPT SW GR303	REPT SW T1TG
RTRV-ALM-GR303	RTRV-ALM-T1TG
RTRV-COND-GR303	RTRV-COND-T1TG
RTRV-CRS-T0	RTRV-DLSTAT-GR303
RTRV-GR303	RTRV-GR8
RTRV-IG-DS1	RTRV-T1TG

[SW-DX-GR303](#)[SW-DX-T1TG](#)

Input Format

```
RTRV-DLSTAT-T1TG:[TID]:<IgLinkAid>:[CTAG];
```

Input Parameters

IgLinkAid Data Link Access Identifier. The address of the T1 Transport interface group or a specific data link within the interface for which status is being returned. *IgLinkAid* is the AID [IgLinkRngAid](#) and is listable and rangeable. *IgLinkAid* must not be null.

Input Example

```
RTRV-DLSTAT-T1TG:SYS1:N4-1-IG4-ALL:555;
```

Output Format

```
    SID DATE TIME
M    CTAG COMPLD
    "<IgLinkAid>,<EocTmcAid>:<LINKST>"
;
```

Output Parameters

IgLinkAid Data Link Access Identifier. The address of the T1 Transport interface group or a specific data link within the interface for which the status is to be returned. *IgLinkAid* is the AID [IgLinkAid](#).

EocTmcAid Physical Access Identifier. The address of the physical location of the EOC/TMC data link. *EocTmcAid* is the AID [EocTmcAid](#).

LINKST Link Status. This parameter indicates the status of the data link. *LINKST* is of type [LinkState](#).

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
    "N4-1-IG4-EOC-P,N4-1-5-2-12:ACT-UP"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-EC1

Name

RTRV-EC1: Retrieve Electrical Carrier

Description

Category: EC1 Facility **Security:** Memory Admin - read

Instructs the C7 to retrieve information on the EC1.

Related Messages:

[DLT-EC1](#)

[ED-EC1](#)

[ENT-EC1](#)

[INIT-REG-EC1](#)

[REPT ALM EC1](#)

[REPT RMV EC1](#)

[RLS-LPBK-EC1](#)

[RST-EC1](#)

[RTRV-COND-EC1](#)

[RTRV-PM-EC1](#)

[DLT-GOS-EC1](#)

[ED-GOS-EC1](#)

[ENT-GOS-EC1](#)

[OPR-LPBK-EC1](#)

[REPT EVT EC1](#)

[REPT RST EC1](#)

[RMV-EC1](#)

[RTRV-ALM-EC1](#)

[RTRV-GOS-EC1](#)

Input Format

RTRV-EC1:[TID]:<EcaAid>:[CTAG];

Input Parameters

EcaAid Access Identifier. The address of the EC1 being retrieved. *EcaAid* is the AID [TwelvePortLuNtwkRngAid](#) and is listable and rangeable. *EcaAid* must not be null.

Input Example

RTRV-EC1:SYS1:N3-3-3-3:CTAG;

Output Format

```

SID DATE TIME
M CTAG COMPLD
"<EcaAid>:[ [ FEPM=<FEPM>, ] [ ALMPROF=<ALMPROF>, ] [ SDBER=<SDBER>, ]
[ SFBER=<SFBER>, ] [ GOS=<GOS>, ] [ LBO=<LBO>, ] [ DESC=<DESC> ] ] : [ <PST> ], [ <SST> ] "
;
```

Output Parameters

Ec1Aid	Access Identifier. The address of the EC1 port retrieved. <i>Ec1Aid</i> is the AID TwelvePortLuAid .
FEPM	Far End Performance Monitoring. When this parameter is set to "N", the Far End Performance Monitoring data is not collected. When retrieving Far End PM, the Monitored Values (MONVAL) field will contain '0' and the Validity (VLDTY) field will contain 'INVLD'. When this parameter is set to "Y", data collection for Far End Performance Monitoring is enabled. The default value is "N". <i>FEPM</i> is of type BoolYN . <i>FEPM</i> is optional.
ALMPROF	Alarm Profile. The set of alarm Notification codes to be associated with this entity. <i>ALMPROF</i> is the AID AlmProfileAid . <i>ALMPROF</i> is optional.
SDBER	Signal Degraded Bit Error Rate. The threshold value above which the Line's bit error rate constitutes a Degraded Signal. <i>SDBER</i> is of type BitErrorRateSD . <i>SDBER</i> is optional.
SFBER	Signal Failed Bit Error Rate. The threshold value above which the Line's bit error rate constitutes a Failed Signal. Only values of 3 and 4 are valid for EC1. <i>SFBER</i> is of type BitErrorRateSF . <i>SFBER</i> is optional.
GOS	Grade of service. This identifies the EC1 grade of service for performance monitoring (PM) which is applied to the EC1 port. <i>GOS</i> is the AID GosAid . <i>GOS</i> is optional.
LBO	Line Build Out. <i>LBO</i> is a Integer. <i>LBO</i> is optional.
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String. <i>DESC</i> is optional.
PST	Primary Service State. This parameter specifies the overall service condition of the EC1 port. <i>PST</i> is of type PrimaryState . <i>PST</i> is optional.
SST	Secondary Service State. This parameter provides additional state information that is relevant. <i>SST</i> is of type SecondaryState and is listable. <i>SST</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-3-3-3::FEPM=Y,ALMPROF=AISCR,SDBER=6,SFBER=4,GOS=3,LBO=5,
DESC="DESCRIPTION":IS-NR,ADA"
;
```

Errors

This message generates all of the [Default Errors](#).

Name

RTRV-EQPT: Retrieve Equipment

Description

Category: Equipment **Security:** Memory Admin - read

This command retrieves the attributes values associated with the specified equipment.

Defined in GR-199.

Related Messages:

[ALW-Swdx-EQPT](#)
[ALW-Swtowkg-EQPT](#)
[ED-EQPT](#)
[INH-Swdx-EQPT](#)
[INH-Swtowkg-EQPT](#)
[REPT EVT EQPT](#)
[REPT RST EQPT](#)
[RST-EQPT](#)
[RTRV-COND-EQPT](#)
[SW-TOPROTN-EQPT](#)

[ALW-Swtoprotn-EQPT](#)
[DLT-EQPT](#)
[ENT-EQPT](#)
[INH-Swtoprotn-EQPT](#)
[REPT ALM EQPT](#)
[REPT RMV EQPT](#)
[RMV-EQPT](#)
[RTRV-ALM-EQPT](#)
[SW-DX-EQPT](#)
[SW-TOWKG-EQPT](#)

Input Format

```
RTRV-EQPT:[TID]:<EqptAid>:[CTAG]::[<TYPE>];
```

Input Parameters

EqptAid Equipment Access Identifier. The address of the equipment being retrieved. *EqptAid* is the AID [EquipmentId7](#) and is listable and rangeable. *EqptAid* must not be null.

TYPE If specified, only retrieve Equipment of the given type(s). *TYPE* is of type [EqptTypeProv](#) and is listable. A null value defaults to "ALL TYPES".

Input Example

```
RTRV-EQPT:SYSA:N4-2-17:555::TYPE;
```

Output Format

```
    SID DATE TIME
M    CTAG COMPLD
    "<EqptAid>:<TYPE>,<ETYPE>:[ [ CLEI=<CLEI>,[ SERIAL=<SERIAL>, ]
[ PARTNO=<PARTNO>,[ HWREV=<HWREV>,[ BOOTREV=<BOOTREV>,[ SWREV=<SWREV>,
[ CCSWREV=<CCSWREV>,[ PROTN=<PROTN>,[ RVRTV=<RVRTV>,[ RNPRTY=<RNPRTY>,
```

```
[ PWR=<PWR>, ] [ LINERATE=<LINERATE>, ] [ IMAIDLECELL=<IMAIDLECELL>, ]
[ TEMP=<TEMP>, ] [ SWREL=<SWREL>, ] [ UBRBW=<UBRBW>, ] [ GRBW=<GRBW>, ]
[ UBRBWRES=<UBRBWRES>, ] [ ENGNO=<ENGNO> ] :[ <PST> ], [ <SST> ] "
```

;

Output Parameters

EqptAid	Equipment Access Identifier. The address of the equipment retrieved. The value of "ALL" will only apply to the specified node within the system and not to all nodes within the system. If the TID is not provided it is assumed that the specified node is the local node. <i>EqptAid</i> is the AID EquipmentId .
TYPE	Equipment Type. This parameter indicates the provisioned type of equipment which the user expects to be in the slot. <i>TYPE</i> is of type EqptTypeAll .
ETYPE	Equipped Type. This parameter indicates the exact type of equipment which is actually plugged into the slot. The string returned in this field should match one of the elements of EqptTypeAll . If it doesn't match the value of <i>TYPE</i> , an equipment mismatch (MEA) alarm should be raised. <i>ETYPE</i> is a String.
CLEI	Common Language Equipment Identifier. This parameter indicates the CLEI code of the equipment which is plugged into the slot. <i>CLEI</i> is a String. <i>CLEI</i> is optional.
SERIAL	Serial Number. This parameter identifies the serial number of the card which is plugged into the slot. <i>SERIAL</i> is a String. <i>SERIAL</i> is optional.
PARTNO	PART NO. This parameter identifies the part number of the hardware card which is plugged into the slot. <i>PARTNO</i> is a String. <i>PARTNO</i> is optional.
HWREV	Hardware Revision. This parameter identifies the revision number of the hardware card which is plugged into the slot. <i>HWREV</i> is a Integer. <i>HWREV</i> is optional.
BOOTREV	Boot Code Revision. This parameter identifies the revision number of boot code running on the card. <i>BOOTREV</i> is a String. <i>BOOTREV</i> is optional.
SWREV	Software Revision. This parameter identifies the revision number of the software which is running on the card. <i>SWREV</i> is a String. <i>SWREV</i> is optional.
CCSWREV	Software Revision of Common Control Package. This parameter identifies the revision number of the common control package of software which is running on the card. This parameter is only present if the card can run two separately loadable software packages. <i>CCSWREV</i> is a String. <i>CCSWREV</i> is optional.
PROTN	Protection Unit Access Identifier. This is the address of the equipment which is providing protection for this card. If this equipment is providing protection for other card(s) in the system, then this will be its own address. <i>PROTN</i> is the AID EquipmentId6 . <i>PROTN</i> is optional.
RVRTV	Revertive. This parameter indicates if the protection scheme. The parameter value can be either Y = revertive or N = non-revertive. This parameter is only applicable in a 1:1 protection scheme. This parameter is only applicable if this is the protection card unit. It is not provided when this is the protected card. <i>RVRTV</i> is of type BoolYN . <i>RVRTV</i> is optional.
RNPRTY	Redundancy Priority. This parameter only applies in a 1:n protection scheme. It gives the priority of this working equipment versus other working equipment protected by the same protection card. Equipment given a smaller RNPRTY number will pre-empt any protection already in effect for equipment given a larger RNPRTY number. When equipment fails with the same RNPRTY number as the already protected

equipment, no protection switch will occur. *RNPRTY* is of type [ProtnPriority](#). *RNPRTY* is optional.

PWR

Power Category. The system shall minimize the power dissipation during power failure (battery backup). Following power failure the system needs to enter a power-save mode. Upon entering this mode, the C7 turns off the DSL cards. The period in which the system enters power-save mode after a power failure shall be a user provisionable interval. To accomplish this task three power categories are created: Category 1 that do not get shut down during battery back up (AC power failure). Category 2 cards that get shut down after 2 hours. Category 3 card that get shut down after the period of time specified by PWRCAT3 (up to a maximum of 30 minutes - see ED-SHELF). The system defaults are that POTS, DS1, DS3, and optics are category 1 and ADSL are category 3. Presently, no Category 2 cards are supported. *PWR* is of type [PowerCategory](#). *PWR* is optional.

LINERATE

Line Rate. This parameter only applies when provisioning RAP-OC cards. This is the configurable line speed of the equipment. *LINERATE* is of type [LineRate](#). *LINERATE* is optional.

IMAIDLECELL

This indicates how IMA idle cells will be transmitted by all IMA groups on this card. *IMAIDLECELL* is of type [ImaIdleCellType](#). *IMAIDLECELL* is optional.

TEMP

The current card temperature in degrees Fahrenheit. *TEMP* is a Integer. *TEMP* is optional.

SWREL

Software Release Number. Reported for AMP/ATP and RAP equipment, this is the C7 software release. A software release is a package consisting of binaries with various software versions. It is possible that a RAP or AMP binary could have the same SWREV in more than one SWREL. *SWREL* is a String. *SWREL* is optional.

UBRBW

Amount of bandwidth available for equipment in kbps. *UBRBW* is a Integer. *UBRBW* is optional.

GRBW

Currently used Guaranteed (excluding TDM) bandwidth in kbps. *GRBW* is a Integer. *GRBW* is optional.

UBRBWRES

UBR BandWidth REServed. Amount of backplane bandwidth reserved for UBR bandwidth by user in kbps. This parameter takes value of zero and values greater than or equal to 128 kbps. This is a restricted parameter and requires the "allow restricted commands (ALW-CMD-RESTR)" option to be specified before it will be accepted by the system. *UBRBWRES* is a Integer. *UBRBWRES* is optional.

ENGNO

Engineering Hardware Number. *ENGNO* is a String. *ENGNO* is optional.

PST

Primary Service State. This parameter specifies the overall service condition of the equipment. *PST* is of type [PrimaryState](#). *PST* is optional.

SST

Secondary Service State. This parameter provides additional state information that is relevant to the equipment. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "N4-2-17:OC12-4-IR,OC12-4-
IR:CLEI=E5SQZFFBAA,SERIAL=082839283,PARTNO=100-A,
  HWREV=3,BOOTREV=3.1.1,SWREV=4.3.2,CCSWREV=5.4.3,PROTN=N4-2-
11,RVRTV=Y,
```

```
RNPRTY=3 , PWR=3 , LINERATE=OC48 , IMAIDLECELL=IDLE , TEMP=92 , SWREL=4.3.5 ,
UBRBW=0 , GRBW=500 , UBRBWRES=200 , ENGNO=400.97.0 : IS-NR , ADA"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ETH

Name

RTRV-ETH: Retrieve ETH

Description

Category: Ethernet **Security:** Memory Admin - read

Retrieves the configuration of the external port. The EthAid will be displayed with the returned parameters.

Related Messages:

DLT-AGG	DLT-AGG-ACL
DLT-AGG-PORT	DLT-ETH
DLT-ETH-ACL	DLT-GOS-ETH
DLT-LSWITCH	DLT-LSWITCH-PORT
DLT-PROF-ETH	DLT-VLAN
DLT-VLAN-PORT	DLT-VLAN-VBPORT
ED-ETH	ED-GOS-ETH
ED-VLAN	ED-VLAN-PORT
ED-VLAN-VBPORT	ENT-AGG
ENT-AGG-ACL	ENT-AGG-PORT
ENT-ETH	ENT-ETH-ACL
ENT-GOS-ETH	ENT-LSWITCH
ENT-LSWITCH-PORT	ENT-PROF-ETH
ENT-VLAN	ENT-VLAN-PORT
ENT-VLAN-VBPORT	INIT-LSWITCH
INIT-STAT-ETH	REPT ALM ETH
REPT EVT ETH	REPT RMV ETH
REPT RST ETH	RMV-ETH
RST-ETH	RTRV-AGG

[RTRV-AGG-ACL](#)
[RTRV-ALM-ETH](#)
[RTRV-ETH-ACL](#)
[RTRV-LSWITCH](#)
[RTRV-PM-ETH](#)
[RTRV-STAT-ETH](#)
[RTRV-VLAN-PORT](#)

[RTRV-AGG-PORT](#)
[RTRV-COND-ETH](#)
[RTRV-GOS-ETH](#)
[RTRV-LSWITCH-PORT](#)
[RTRV-PROF-ETH](#)
[RTRV-VLAN](#)
[RTRV-VLAN-VBPORT](#)

Input Format

```
RTRV-ETH:[TID]:<EthPortAid>:[CTAG];
```

Input Parameters

EthPortAid Ethernet Access Identifier. *EthPortAid* is the AID [TwelvePortLuNtwkRngAid](#) and is listable and rangeable. *EthPortAid* must not be null.

Input Example

```
RTRV-ETH:SYS1:N3-3-3-3:CTAG;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
  "<EthPortAid>:[ [MAXSPD=<MAXSPD>, ][SPD=<SPD>, ][DPLX=<DPLX>, ]
[ TAGGED=<TAGGED>, ][MTU=<MTU>, ][POLICE=<POLICE>, ][LSREN=<LSREN>, ]
[VIDTXMODE=<VIDTXMODE>, ][ENONBAT=<ENONBAT>, ][HPNA=<HPNA>, ][GOS=<GOS>, ]
[DESC=<DESC>] ]:[ <PST>, [<SST>] "
;
```

Output Parameters

EthPortAid	Ethernet Access Identifier. <i>EthPortAid</i> is the AID TwelvePortLuAid .
MAXSPD	<i>MAXSPD</i> is of type Speed . <i>MAXSPD</i> is optional.
SPD	Speed. <i>SPD</i> is of type Speed . <i>SPD</i> is optional.
DPLX	Duplex. <i>DPLX</i> is of type Duplex . <i>DPLX</i> is optional.
TAGGED	Tagged. <i>TAGGED</i> is of type BoolYN . <i>TAGGED</i> is optional.
MTU	Max Transmission Unit. Varies by equipment type. GE-2P: Fixed at 1536. ONT : must be within [1518,1532], default 1532. GE-4S and FE-12S: must be within [1518, 9022], default 1522. <i>MTU</i> is of type Mtu . <i>MTU</i> is optional.
POLICE	Policing. <i>POLICE</i> is of type BoolYN . <i>POLICE</i> is optional.
LSREN	LaSeR ENable - Laser On/Off. Applies to GE ports only. <i>LSREN</i> is of type BoolYN . <i>LSREN</i> is optional.

VIDTXMODE	For ONT ports, allows conversion of multicast video streams to unicast streams to the specific Set Top Boxes that have joined the associated stream. <i>VIDTXMODE</i> is of type OntEthVidTxMode . <i>VIDTXMODE</i> is optional.
EONBAT	For ONT ports, this parameter specifies the behavior the port when the ONT is running on battery backup, and overrides the default (ONTETHONBAT) specified by ED-SYS. <i>This feature is enabled in C7 release 5.2</i> <i>EONBAT</i> is of type OntPortPwrOpt . <i>EONBAT</i> is optional.
HPNA	Indicator that an ONT Eth Port supports HomePNA (Phoneline Networking Alliance) standard <i>HPNA</i> is of type BoolYN . <i>HPNA</i> is optional.
GOS	<i>GOS</i> is the AID GosAid . <i>GOS</i> is optional.
DESC	DESCription. A user-settable description field of up to 31 characters. <i>DESC</i> is a String. <i>DESC</i> is optional.
PST	Primary Service State. This is the service state which the user wants the Ethernet port to transition into. <i>PST</i> is of type PrimaryState . <i>PST</i> is optional.
SST	Secondary Service State. This parameter provides additional state information that is relevant. <i>SST</i> is of type SecondaryState and is listable. <i>SST</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-4-1-
1::MAXSPD=1000,SPD=AUTO,DPLX=AUTO,TAGGED=N,MTU=1522,POLICE=Y,
LSREN=Y,VIDTXMODE=MCAST,ENONBAT=USEDEF,HPNA=N,GOS=3,
DESC=\"DESCRIPTION\" :IS-NR,ADA"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ETH-ACL

Name

RTRV-ETH-ACL: Retrieve ETH ACL

Description

Category: Ethernet

Security: Memory Admin - read

Retrieves elements in the source filter list from the external ethernet port. The EthAid will be displayed with a list of mac addresses and their associated masks.

This command is not currently supported.

Related Messages:

DLT-AGG	DLT-AGG-ACL
DLT-AGG-PORT	DLT-ETH
DLT-ETH-ACL	DLT-GOS-ETH
DLT-LSWITCH	DLT-LSWITCH-PORT
DLT-PROF-ETH	DLT-VLAN
DLT-VLAN-PORT	DLT-VLAN-VBPORT
ED-ETH	ED-GOS-ETH
ED-VLAN	ED-VLAN-PORT
ED-VLAN-VBPORT	ENT-AGG
ENT-AGG-ACL	ENT-AGG-PORT
ENT-ETH	ENT-ETH-ACL
ENT-GOS-ETH	ENT-LSWITCH
ENT-LSWITCH-PORT	ENT-PROF-ETH
ENT-VLAN	ENT-VLAN-PORT
ENT-VLAN-VBPORT	INIT-LSWITCH
INIT-STAT-ETH	REPT ALM ETH
REPT EVT ETH	REPT RMV ETH
REPT RST ETH	RMV-ETH
RST-ETH	RTRV-AGG
RTRV-AGG-ACL	RTRV-AGG-PORT
RTRV-ALM-ETH	RTRV-COND-ETH
RTRV-ETH	RTRV-GOS-ETH
RTRV-LSWITCH	RTRV-LSWITCH-PORT
RTRV-PM-ETH	RTRV-PROF-ETH
RTRV-STAT-ETH	RTRV-VLAN
RTRV-VLAN-PORT	RTRV-VLAN-VBPORT

Input Format

```
RTRV-ETH-ACL:[TID]:<EthPortAid>:[CTAG];
```

Input Parameters

EthPortAid Ethernet Port Ranging Access Identifier. *EthPortAid* is the AID [TwelvePortLuRngAid](#) and is listable and rangeable. *EthPortAid* must not be null.

Input Example

```
RTRV-ETH-ACL:SYS1:N3-3-3-3:CTAG;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD
"<EthPortAid>::[ [MAC=<MAC>, ] [ MMSK=<MMSK> ] ] "
;
```

Output Parameters

EthPortAid Ethernet Port Access Identifier. *EthPortAid* is the AID [TwelvePortLuAid](#).

MAC MAC address. *MAC* is the AID [MacAid](#). *MAC* is optional.

MMSK MAC address mask. *MMSK* is the AID [MacAid](#). *MMSK* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-3-3-3::MAC=01-23-45-67-89-AB,MMSK=01-23-45-67-89-AB"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-EXT-CONT

Name

RTRV-EXT-CONT: Retrieve External Control

Description

Category: Environment **Security:** Maintenance - read

This command instructs the C7 to send the control state of an external control.

Defined in GR-833.

Related Messages:

[OPR-EXT-CONT](#)
[REPT EVT CONT](#)
[RTRV-ALM-ENV](#)

[REPT ALM ENV](#)
[RLS-EXT-CONT](#)
[RTRV-ATTR-CONT](#)

[RTRV-ATTR-ENV](#)
[SET-ATTR-CONT](#)

[RTRV-COND-ENV](#)
[SET-ATTR-ENV](#)

Input Format

```
RTRV-EXT-CONT: [ TID ] : <ExtContAid> : [ CTAG ] ;
```

Input Parameters

ExtContAid External Control Access Identifier. The address of the external control being retrieved. *ExtContAid* is the AID [ExtControlRngAid](#) and is listable and rangeable. *ExtContAid* must not be null.

Input Example

```
RTRV-EXT-CONT: SYS4:N4-EXT2:CTAG ;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<ExtContAid>: [ <CONTTYPE> ] , <DUR> , [ <CONTSTATE> ] , [ <POL> ] "
;"
```

Output Parameters

ExtContAid External Control Access Identifier. The address of the external control retrieved. *ExtContAid* is the AID [ExtControlAid](#).

CONTTYPE Control Type. This parameter identifies the control type of the environmental control. *CONTTYPE* is of type [ContType](#). *CONTTYPE* is optional.

DUR Duration. This parameter indicate the duration of operation. *DUR* is of type [Duration](#).

CONTSTATE CONTrol STATE. This parameter identifies the current control state of the external control. *CONTSTATE* is of type [ControlState](#). *CONTSTATE* is optional.

POL POLarity. This parameter indicates whether the OPR-EXT-CONT command closes the control or opens it. If a parameters is not enetered, then the value is not changed. The initial value is OPRISCLOSED. *POL* is of type [ContPolarity](#). *POL* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N4-EXT2:FAN,CONTS,OPER,OPERISOPEN"
;"
```

Errors

This message generates all of the Default Errors.

RTRV-FFP-<OCN>

Name

RTRV-FFP-<[OCN](#)>: Retrieve Facilities Protection Group (OC12, OC3, OC48)

Description

Category: Protection Switching

Security: Memory Admin - read

This command instructs the C7 to retrieve the information relating to a facility protection group. It indicate the association a protecting (alternate) facility with a protected (main/preferred) facility(s).

The combination of BDCST, PSDIRN, MODE, and ORP parameters values indicate the type of protection being provided. The following table shows the protection provided based on the the combination of parameter values.

Protection	BDCST	PSDIRN	MODE	ORP
Linear 1+1 UNI	Y	UNI	OPEN	N
Ring UPSR	Y	UNI	CLOSED	N
Ring UPSR + packet aggregation	Y	UNI	CLOSED	Y
Linear 1+1 BI	Y	BI	OPEN	N
Linear 1:1 UNI	N	UNI	OPEN	N
Linear 1:1 BI	N	BI	OPEN	N

Defined in GR-199.

Related Messages:

[DLT-<OCN>](#)

[DLT-GOS-<OCN>](#)

[ED-FFP-<OCN>](#)

[ENT-<OCN>](#)

[ENT-GOS-<OCN>](#)

[OPR-LPBK-<OCN>](#)

[REPT ALM <OCN>](#)

[REPT RMV <OCN>](#)

[DLT-FFP-<OCN>](#)

[ED-<OCN>](#)

[ED-GOS-<OCN>](#)

[ENT-FFP-<OCN>](#)

[INIT-REG-<OCN>](#)

[OPR-PROTNSW-<OCN>](#)

[REPT EVT <OCN>](#)

[REPT RST <OCN>](#)

[RLS-LPBK-<OCN>](#)
[RMV-<OCN>](#)
[RTRV-<OCN>](#)
[RTRV-COND-<OCN>](#)
[RTRV-PM-<OCN>](#)

[RLS-PROTNSTW-<OCN>](#)
[RST-<OCN>](#)
[RTRV-ALM-<OCN>](#)
[RTRV-GOS-<OCN>](#)

Input Format

```
RTRV-FFP-<OCN>:[TID]:<OcNAid>:[CTAG];
```

Input Parameters

OcNAid Port Access Identifier. The address of the working or protection OCn port being retrieved. *OcNAid* is the AID [FourPortLuAndRapNtwkRngAid](#) and is listable and rangeable. *OcNAid* must not be null.

Input Example

```
RTRV-FFP-OC12:SYS45:N45-3-5-1:CTAG;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<WrkOcNAid>,<ProtOcNAid>::[ [ PSDIRN=<PSDIRN>, ][ BDCST=<BDCST>, ]
[ RVRTV=<RVRTV>, ][ MODE=<MODE>, ][ PDIP=<PDIP>, ][ WTR=<WTR>, ][ ORP=<ORP> ] ] "
;
```

Output Parameters

WrkOcNAid Working OCn Port Access Identifier. The address of the port which receives the traffic from the working fiber in the facility protection group. *WrkOcNAid* is the AID [FourPortLuAndRapAid](#).

ProtOcNAid Protection OCn Port Access Identifier. The address of the port which receives the traffic from the protect fiber in the facility protection group. *ProtOcNAid* is the AID [FourPortLuAndRapAid](#).

PSDIRN Protection Switch Direction. Specifies whether both directions of a bi-directional connection are to be switched together. *PSDIRN* is of type [ProtnSwDirection](#). *PSDIRN* is optional.

BDCST Broadcast. This parameter is set to Y if the signal is to be broadcast over the protected (main) and the protecting (protection) channels simultaneously for a 1+1 protection scheme. It is set to N if the signal is only to be sent over the active channel. *BDCST* is of type [BoolYN](#). *BDCST* is optional.

RVRTV Revertive. This parameter identifies the type of protection requested. This can be either Y = revertive or N = non-revertive. *RVRTV* is of type [BoolYN](#). *RVRTV* is optional.

MODE Protection Mode. The mode parameter indicates whether the protection is applied to an

OPEN (linear) protection scheme or a CLOSED (ring) protection scheme. *MODE* is of type [Mode](#). *MODE* is optional.

- PDIP** Payload Defect Indication. This parameter indicates whether to switch on a PDI-P defect. This parameter is applicable only when MODE = CLOSED. *PDIP* is of type [BoolYN](#). *PDIP* is optional.
- WTR** Wait to Restore. The amount of time in minutes to wait before restoring a revertive protection switch. Does not apply to non-revertive protection switch. *WTR* is of type [WaitToRestore](#). *WTR* is optional.
- ORP** Optical Restoration Protocol (ORP). This parameter indicates if the optical facility should provide ORP protection. A value of Y = ORP requested and a N = No ORP protection. This attribute may not be changed on an existing FFP. If a value is entered, it must match the pre-existing value. *ORP* is of type [BoolYN](#). *ORP* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N45-3-5-1,N45-3-6-
1::PSDIRN=UNI,BDCST=Y,RVRTV=Y,MODE=OPEN,PDIP=Y,WTR=5,
      ORP=Y"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-FPACC

Name

RTRV-FPACC: Retrieve Front Panel Access

Description

Category: Loop Testing **Security:** Testing

This command retrieves the data associated with the specified front panel.

Defined by Calix.

Related Messages:

[CHG-SPLIT](#)

[CONN-LPACC-MET](#)

[CONN-TACC-MET](#)

[CONN-FPACC-MET](#)

[CONN-MON](#)

[DISC-FPACC-MET](#)

[DISC-TACC](#)
[ED-FPACC](#)
[ENT-TGRP](#)
[RTRV-TGRP](#)
[TST-ONT-MET](#)

[DLT-TGRP](#)
[ED-TGRP](#)
[REPT-STAT](#)
[TST-ITACC-MET](#)

Input Format

```
RTRV-FPACC:[TID]:<ShelfAid>:[CTAG];
```

Input Parameters

ShelfAid Shelf Access Identifier. The address of the shelf where the front panel is connected. *ShelfAid* is the AID [ShelfAid](#) and is listable and rangeable. *ShelfAid* must not be null.

Input Example

```
RTRV-FPACC:SYS3:N4-4:3333;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<ShelfAid>::[ [CHAP=<CHAP>, ] [TMOUT=<TMOUT>] ]:[ <PST> , [ <SST> ] "
; "
```

Output Parameters

ShelfAid Shelf Access Identifier. The address of the shelf where the front panel is connected. *ShelfAid* is the AID [ShelfAid](#).

CHAP Channel Access Privileges. This indicates the current privileges of the front panel. *CHAP* is of type [CidAccess](#). *CHAP* is optional.

TMOUT Time Out. This parameter indicates the amount of time the test was to be established for when the test was initiated. *TMOUT* is of type [TimeOutTesting](#). *TMOUT* is optional.

PST Primary Service State. This parameter specifies the overall service condition of the front panel. *PST* is of type [PrimaryState](#). *PST* is optional.

SST Secondary Service State. This parameter provides additional state information that is relevant to the front panel. The only valid value is TS which indicates a test is in progress via the front panel. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N4-4 ::CHAP=FULLACC, TMOUT=3 :IS-NR, TS"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-GOS-<OCN>

Name

RTRV-GOS-<[OCN](#)>: Retrieve Grade of Service (OC12, OC3, OC48)

Description

Category: Performance Monitoring

Security: Memory Admin - read

This command is used to retrieve the data parameters and state parameters for an OCn Grade of Service.

Defined in GR-199.

Related Messages:

[DLT-<OCN>](#)

[DLT-FFP-<OCN>](#)

[DLT-GOS-<OCN>](#)

[ED-<OCN>](#)

[ED-FFP-<OCN>](#)

[ED-GOS-<OCN>](#)

[ENT-<OCN>](#)

[ENT-FFP-<OCN>](#)

[ENT-GOS-<OCN>](#)

[INIT-REG-<OCN>](#)

[OPR-LPBK-<OCN>](#)

[OPR-PROTNSW-<OCN>](#)

[REPT ALM <OCN>](#)

[REPT EVT <OCN>](#)

[REPT RMV <OCN>](#)

[REPT RST <OCN>](#)

[RLS-LPBK-<OCN>](#)

[RLS-PROTNSW-<OCN>](#)

[RMV-<OCN>](#)

[RST-<OCN>](#)

[RTRV-<OCN>](#)

[RTRV-ALM-<OCN>](#)

[RTRV-COND-<OCN>](#)

[RTRV-FFP-<OCN>](#)

[RTRV-PM-<OCN>](#)

Input Format

```
RTRV-GOS-<OCN>:[TID]:<GosAid>:[CTAG]::  
[<LOCN>],[<TMPER>];
```

Input Parameters

- GosAid** Grade of Service Access Identifier. The address of the OC12 Grade of Service table entry. *GosAid* is the AID [GosAllAid](#) and is listable and rangeable. *GosAid* must not be null.
- LOCN** Location. Indicates whether the near end or far end grade of service path parameters are to be retrieved. A null value retrieves both. Only one set of section parameters are maintained. They are retrieved in association with the near end. *LOCN* is of type [Location](#). A null value defaults to "retrieving both".
- TMPER** Time Period. This indicates the length of the accumulation time period to which the retrieved parameters apply. Currently 15-MIN and 1-DAY periods are supported. A null value retrieves both. *TMPER* is of type [PMPPeriod](#). A null value defaults to "retrieving both".

Input Example

```
RTRV-GOS-OC12:SYS3:5:34::NEND,15-MIN;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<GosAid>:[<LOCN>],[<TMPER>]:[[CVL=<CVL>,[ESL=<ESL>,[SESL=<SESL>,
[UASL=<UASL>,[CVS=<CVS>,[ESS=<ESS>,[SESS=<SESS>,[SEFSS=<SEFSS>,
[DESC=<DESC>]]"
;
```

Output Parameters

- GosAid** Grade of Service Access Identifier. The address of the OC12 Grade of Service table entry. *GosAid* is the AID [GosAid](#).
- LOCN** Location. Indicates whether the retrieved parameters apply to the near end or far end grade of service. *LOCN* is of type [Location](#). *LOCN* is optional.
- TMPER** Time Period. This indicates the length of the accumulation time period to which the retrieved parameters apply. *TMPER* is of type [PMPPeriod](#). *TMPER* is optional.
- CVL** Coding Violations Line. The threshold value for the coding violations line. The default threshold for 15-MIN is 25 and for 1-DAY is 250. *CVL* is of type [CVThreshRange](#). *CVL* is optional.
- ESL** Errored Seconds Line. The threshold value for the errored seconds line. The default threshold for 15-MIN is 12 and for 1-DAY is 200. *ESL* is of type [SecondsThreshRange](#). *ESL* is optional.
- SESL** Severely Errored Seconds Line. The threshold value for the severely errored seconds line. The default threshold for 15-MIN is 3 and for 1-DAY is 7. *SESL* is of type [SecondsThreshRange](#). *SESL* is optional.
- UASL** Unavailable Seconds Line. The threshold value for the unavailable seconds line. The default threshold for 15-MIN is 10 and for 1-DAY is 10. *UASL* is of type [SecondsThreshRange](#). *UASL* is optional.
- CVS** Coding Violations Section. The threshold value for the coding violations section. This parameter does not apply to far end provisioning. The default threshold for 15-MIN is 25 and for 1-DAY is 250. *CVS* is of type [CVThreshRange](#). *CVS* is optional.

- ESS** Errored Seconds Section. The threshold value for the errored seconds section. This parameter does not apply to far end provisioning. The default threshold for 15-MIN is 12 and for 1-DAY is 200. *ESS* is of type [SecondsThreshRange](#). *ESS* is optional.
- SESS** Severely Errored Seconds Section. The threshold value for the severely errored seconds section. This parameter does not apply to far end provisioning. The default threshold for 15-MIN is 3 and for 1-DAY is 7. *SESS* is of type [SecondsThreshRange](#). *SESS* is optional.
- SEFSS** Severely Errored Framing Seconds Threshold Section. The threshold value for the severely errored framing seconds for the section. This parameter does not apply to far end provisioning. Default threshold for 15-MIN interval and 1-DAY interval is 10. *SEFSS* is of type [SecondsThreshRange](#). *SEFSS* is optional.
- DESC** A string description of this object, up to 11 characters in length. *DESC* is a String. *DESC* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"3:NEND,15-
MIN:CVL=5,ESL=5,SESL=5,UASL=5,CVS=2,ESS=5,SESS=5,SEFSS=3,
      DESC=\\"GOS VERS 3\\""
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-GOS-<STS>

Name

RTRV-GOS-<[STS](#)>: Retrieve Grade of Service (STS1, STS12C, STS3C, STS48C)

Description

Category: Performance Monitoring

Security: Memory Admin - read

This command is used to retrieve the data parameters and state parameters for an STS1 Grade of Service.

Defined in GR-199.

Default Values by STS Type

15-MIN Defaults for:	STS1	STS3C	STS12C	STS48C
CVP	15	25	75	225

ESP	12	20	60	180
SESP	3	3	3	3
UASP	10	10	10	10

Default Values by STS Type

1-DAY Defaults for:	STS1	STS3C	STS12C	STS48C
CVP	125	250	750	2250
ESP	100	200	600	1800
SESP	7	7	7	7
UASP	10	10	10	10

Related Messages:

[DLT-<STSN>](#)
[DLT-GOS-<STSN>](#)
[ED-CRS-<STSN>](#)
[ENT-<STSN>](#)
[ENT-GOS-<STSN>](#)
[OPR-PROTNSW-<STSN>](#)
[REPT EVT <STSN>](#)
[REPT RST <STSN>](#)
[RMV-<STSN>](#)
[RTRV-<STSN>](#)
[RTRV-COND-<STSN>](#)
[RTRV-PM-<STSN>](#)

[DLT-CRS-<STSN>](#)
[ED-<STSN>](#)
[ED-GOS-<STSN>](#)
[ENT-CRS-<STSN>](#)
[INIT-REG-<STSN>](#)
[REPT ALM <STSN>](#)
[REPT RMV <STSN>](#)
[RLS-PROTNSW-<STSN>](#)
[RST-<STSN>](#)
[RTRV-ALM-<STSN>](#)
[RTRV-CRS-<STSN>](#)

Input Format

```
RTRV-GOS-<STSN>:[TID]:<GosAid>:[CTAG]:::  
[<LOCN>],[<TMPER>];
```

Input Parameters

GosAid Grade of Service Access Identifier. The address of the STS Grade of Service table entry. *GosAid* is the AID [GosAllAid](#) and is listable and rangeable. *GosAid* must not be null.

LOCN Location. Indicates whether the near end or far end grade of service parameters are being retrieved. A null value retrieves both. *LOCN* is of type [Location](#). A null value defaults to "retrieving both".

TMPER Time Period. This indicates the length of the accumulation time period to which the retrieved parameters apply. Currently 15-MIN and 1-DAY periods are supported. A null value retrieves both. *TMPER* is of type [PMPPeriod](#). A null value defaults to "retrieving both".

Input Example

```
RTRV-GOS-STS1:SYS1:3:324::NEND,15-MIN;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD

"<GosAid>:[<LOCN>,[<TMPER>]:[[CVP=<CVP>,[ESP=<ESP>,[SESP=<SESP>,
[UASP=<UASP>,[PERUPE=<PERUPE>,[DESC=<DESC>]]"
;]
```

Output Parameters

- GosAid** Grade of Service Access Identifier. The address of the STS Grade of Service table entry. *GosAid* is the AID [GosAid](#).
- LOCN** Location. Indicates whether the retrieved parameters apply to the near end or far end grade of service. *LOCN* is of type [Location](#). *LOCN* is optional.
- TMPER** Time Period. This indicates the length of the accumulation time period to which the retrieved parameters apply. *TMPER* is of type [PMPPeriod](#). *TMPER* is optional.
- CVP** Coding Violations Path. The threshold value for the coding violations path. *CVP* is of type [CVThreshRange](#). *CVP* is optional.
- ESP** Errorred Seconds Path. The threshold value for the errored seconds path. *ESP* is of type [SecondsThreshRange](#). *ESP* is optional.
- SESP** Severely Errorred Seconds Path. The threshold value for the severely errored seconds path. *SESP* is of type [SecondsThreshRange](#). *SESP* is optional.
- UASP** Un-Available seconds path. This is the threshold value for the un-available seconds for the path. *UASP* is of type [SecondsThreshRange](#). *UASP* is optional.
- PERUPE** Percent Utilization - Path, Egress. *PERUPE* is of type [Percentage](#). *PERUPE* is optional.
- DESC** A string description of this object, up to 11 characters in length. *DESC* is a String. *DESC* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "3:NEND,15-
MIN:CVP=10,ESP=15,SESP=10,UASP=5,PERUPE=85,DESC=\"GOS VERS 3\""
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-GOS-ADSL

Name

RTRV-GOS-ADSL: Retrieve Grade of Service Asymmetric Digital Subscriber Line

Description

Category: Performance Monitoring

Security: Memory Admin - read

This command is used to retrieve the data parameters and state parameters for an ADSL Grade of Service.

Defined in GR-199.

Related Messages:

[DLT-ADSL](#)

[DLT-GOS-ADSL](#)

[DLT-TMPLT-ADSL](#)

[ED-ADSL](#)

[ED-GOS-ADSL](#)

[ENT-ADSL](#)

[ENT-GOS-ADSL](#)

[ENT-TMPLT-ADSL](#)

[INIT-ADSL](#)

[INIT-PWR-ADSL](#)

[INIT-REG-ADSL](#)

[REPT ALM ADSL](#)

[REPT EVT ADSL](#)

[REPT RMV ADSL](#)

[REPT RST ADSL](#)

[RMV-ADSL](#)

[RST-ADSL](#)

[RTRV-ADSL](#)

[RTRV-ALM-ADSL](#)

[RTRV-COND-ADSL](#)

[RTRV-CSTAT-ADSL](#)

[RTRV-PM-ADSL](#)

[RTRV-TMPLT-ADSL](#)

Input Format

```
RTRV-GOS-ADSL: [ TID ] : <GosAid> : [ CTAG ] :: [ <LOCN> ] , [ <TMPER> ] ;
```

Input Parameters

GosAid Grade of Service Access Identifier. The address of the ADSL Grade of Service table entry. *GosAid* is the AID [GosAllAid](#) and is listable and rangeable. *GosAid* must not be null.

LOCN Location. Indicates whether the near end or far end grade of service parameters are being retrieved. A null value retrieves both. *LOCN* is of type [Location](#). A null value defaults to "retrieving both".

TMPER Time Period. This indicates the length of the accumulation time period to which the retrieved parameters apply. Currently 15-MIN and 1-DAY periods are supported. A null value retrieves both. *TMPER* is of type [PMPPeriod](#). A null value defaults to "retrieving both".

Input Example

```
RTRV-GOS-ADSL:SYS1:3:324::NEND,15-MIN;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<GosAid>:[<LOCN>,[<TMPER>]:[[CVFL=<CVFL>,[CVIL=<CVIL>,[ECFL=<ECFL>,
[ECIL=<ECIL>,[ECSL=<ECSL>,[ESL=<ESL>,[SESL=<SESL>,[UASL=<UASL>,
[LOSSL=<LOSSL>,[PERU=<PERU>,[PERUE=<PERUE>,[LOSC=<LOSC>,
[DESC=<DESC>]]"
;
```

Output Parameters

- GosAid** Grade of Service Access Identifier. The address of the ADSL Grade of Service table entry. *GosAid* is the AID [GosAid](#).
- LOCN** Location. Indicates whether the retrieved parameters apply to the near end or far end grade of service. *LOCN* is of type [Location](#). *LOCN* is optional.
- TMPER** Time Period. This indicates the length of the accumulation time period to which the retrieved parameters apply. *TMPER* is of type [PMPPeriod](#). *TMPER* is optional.
- CVFL** Coding violations fast - line. The threshold value for the coding violations fast for the line. The default threshold for 15-MIN is 25 and for 1-DAY is 250. *CVFL* is of type [CVAdslThreshRange](#). *CVFL* is optional.
- CVIL** Coding violations interleaved - line. The threshold value for the coding violations interleaved for the line. The default threshold for 15-MIN is 25 and for 1-DAY is 250. *CVIL* is of type [CVAdslThreshRange](#). *CVIL* is optional.
- ECFL** Forward error correction count fast - line. The threshold value for the forward error correction count fast for the line. The default threshold for 15-MIN is 10 and for 1-DAY is 100. *ECFL* is of type [ECThreshRange](#). *ECFL* is optional.
- ECIL** Forward error correction count interleaved - line. The threshold value for the forward error correction count interleaved for the line. The default threshold for 15-MIN is 10 and for 1-DAY is 100. *ECIL* is of type [ECThreshRange](#). *ECIL* is optional.
- ECSL** Forward error correction count second - line. The threshold value for the forward error correction count second for the line. The default threshold for 15-MIN is 10 and for 1-DAY is 100. *ECSL* is of type [SecondsThreshRange](#). *ECSL* is optional.
- ESL** Errorred seconds - line. The threshold value for the errored seconds for the line. The default threshold for 15-MIN is 65 and for 1-DAY is 648. *ESL* is of type [SecondsThreshRange](#). *ESL* is optional.
- SESL** Severely errored seconds - line. The threshold value for the severely errored seconds for the line. The default threshold for 15-MIN is 10 and for 1-DAY is 100. *SESL* is of type [SecondsThreshRange](#). *SESL* is optional.
- UASL** Unavailable Seconds Threshold Line. The threshold value for the unavailable seconds for the line. The default threshold for 15-MIN is 65 and for 1-DAY is 65. *UASL* is of type [SecondsThreshRange](#). *UASL* is optional.

- LOSSL** LOS Seconds Threshold Line. The threshold value for the LOS seconds for the line. The default threshold for 15-MIN is 10 and for 1-DAY is 10. *LOSSL* is of type [SecondsThreshRange](#). *LOSSL* is optional.
- PERU** Percent Utilization, Ingress (Near End only). The default threshold for 15-MIN is 85 and for 1-DAY is 85. *PERU* is of type [Percentage](#). *PERU* is optional.
- PERUE** Percent Utilization, Egress (Near End only). The default threshold for 15-MIN is 85 and for 1-DAY is 85. *PERUE* is of type [Percentage](#). *PERUE* is optional.
- LOSC** Loss of Signal Count (Near End only). This indicates the number of times a LOS condition was set, and also represents the number of modem retrains in the time period. *LOSC* is a Integer. *LOSC* is optional.
- DESC** A string description of this object, up to 11 characters in length. *DESC* is a String. *DESC* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"3:NEND,15-
MIN:CVFL=3,CVIL=5,ECFL=5,ECIL=6,ECSL=8,ESL=8,SESL=5,UASL=5,
    LOSSL=30,PERU=85,PERUE=85,LOSC=3,DESC=\ "GOS VERS 3\ "
;"
```

Errors

This message generates all of the [Default Errors](#).

RTRV-GOS-AP

Name

RTRV-GOS-AP: Retrieve Grade of Service ATM Resource Port

Description

Category: Performance Monitoring

Security: Memory Admin - read

No Comment Defined.

Related Messages:

[DLT-AP](#)
[DLT-GOS-AP](#)
[DLT-GOS-IMALINK](#)

[DLT-AP-T1](#)
[DLT-GOS-IMA](#)
[DLT-IMA](#)

DLT-IMA-PORT	ED-AP
ED-GOS-AP	ED-GOS-IMA
ED-GOS-IMALINK	ED-IMA
ENT-AP	ENT-AP-T1
ENT-GOS-AP	ENT-GOS-IMA
ENT-GOS-IMALINK	ENT-IMA
ENT-IMA-PORT	INIT-REG-AP
INIT-REG-IMA	INIT-REG-IMALINK
REPT ALM AP	REPT ALM IMA
REPT ALM IMALINK	REPT EVT AP
REPT EVT IMA	REPT EVT IMALINK
REPT RMV AP	REPT RST AP
RMV-AP	RMV-IMA
RST-AP	RST-IMA
RTRV-ALM-AP	RTRV-ALM-IMA
RTRV-ALM-IMALINK	RTRV-AP
RTRV-COND-AP	RTRV-COND-IMA
RTRV-GOS-IMA	RTRV-GOS-IMALINK
RTRV-IMA	RTRV-PM-AP
RTRV-PM-IMA	RTRV-PM-IMALINK

Input Format

```
RTRV-GOS-AP : [ TID ] : <GosAid> : [ CTAG ] :: [ <LOCN> ] , [ <TMPER> ] ;
```

Input Parameters

GosAid *GosAid* is the AID [GosAllAid](#) and is listable and rangeable. *GosAid* must not be null.

LOCN Location. This parameter indicates whether the near end or far end PM threshold values are being provisioned. *LOCN* is of type [Location](#). A null value is equivalent to "ALL".

TMPER Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. *TMPER* is of type [PMPPeriod](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-GOS-AP : SYS1 : 3 : 55 :: NEND , 1 -DAY ;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD
" <GosAid> : <LOCN> , <TMPER> : [ [ PERUP=<PERUP> , ] [ PERUPE=<PERUPE> , ]
[ IVIMA=<IVIMA> , ] [ OIFIMA=<OIFIMA> , ] [ SESIMA=<SESIMA> , ] [ UASIMA=<UASIMA> , ]
[ TXUUSIMA=<TXUUSIMA> , ] [ RXUUSIMA=<RXUUSIMA> , ] [ TXFC=<TXFC> , ] [ RXFC=<RXFC> , ]
```

```
[TXSTUFFIMA=<TXSTUFFIMA>, ][RXSTUFFIMA=<RXSTUFFIMA>, ][DESC=<DESC>] ] "
```

Output Parameters

GosAid	<i>GosAid</i> is the AID GosAid .
LOCN	Location. This parameter indicates whether the near end or far end PM threshold values are being provisioned. <i>LOCN</i> is of type Location .
TMPER	Time Period. This parameter specifies the accumulation time period for the PM information. <i>TMPER</i> is of type PMPerson .
PERUP	Percent Utilization - Path, Ingress (Near End only) <i>PERUP</i> is of type Percentage . <i>PERUP</i> is optional.
PERUPE	Percent Utilization - Path, Egress (Near End only). <i>PERUPE</i> is of type Percentage . <i>PERUPE</i> is optional.
IVIMA	ICP Violations. Count of errored, invalid, or missing ICP cells, except during seconds where a SES-IMA or UAS-IMA condition is reported (Near End only). <i>IVIMA</i> is of type SecondsThreshRange . <i>IVIMA</i> is optional.
OIFIMA	Out of IMA Frame (Near End only). Count of OIF anomalies except during SES-IMA or UAS-IMA conditions. <i>OIFIMA</i> is of type SecondsThreshRange . <i>OIFIMA</i> is optional.
SESIMA	Severely Errored Seconds. Count of 1-second intervals containing >= 30% of the ICP cells counted as IV-IMAs, or one or more near-end link defects (facility, LIF, or LODS) during non-UAS-IMA intervals. The number of IV-IMA counts required to meet the 30% criteria will depend on the facility line rate and the IMA frame size (M). <i>SESIMA</i> is of type SecondsThreshRange . <i>SESIMA</i> is optional.
UASIMA	Unavailable seconds at NE. The NE unavailability begins at the onset of 10 contiguous SES-IMA including the first 10 seconds to enter the UAS-IMA condition, and ends at the onset of 10 contiguous second with no SES-IMA, excluding the last 10 seconds to exit the UAS-IMA condition. <i>UASIMA</i> is of type SecondsThreshRange . <i>UASIMA</i> is optional.
TXUUSIMA	Transit Unusable Seconds (Near End only). Count of Tx Unusable seconds at the Tx NE Link State Machine (LSM). <i>TXUUSIMA</i> is of type SecondsThreshRange . <i>TXUUSIMA</i> is optional.
RXUUSIMA	Receive Unusable Seconds (Near End only). Count of Rx Unusable seconds at the Rx NE LSM. <i>RXUUSIMA</i> is of type SecondsThreshRange . <i>RXUUSIMA</i> is optional.
TXFC	Transit Failure Count. Count of the number of NE Transmit Link failure alarm entrances. The possible NE Tx link failure alarm conditions are: Tx-Mis-Connected and Tx-Fault. <i>TXFC</i> is of type SecondsThreshRange . <i>TXFC</i> is optional.
RXFC	Receive Failure Count. Count of the number of NE Receive Link failure alarm entrances. The possible NE Rx link failure alarm conditions are: LIF, LODS, and Rx-Fault. <i>RXFC</i> is of type SecondsThreshRange . <i>RXFC</i> is optional.
TXSTUFFIMA	Transmit Stuff Events (Near End only). Count of stuff events inserted in the transmitted direction. <i>TXSTUFFIMA</i> is of type ImaLinkStuff . <i>TXSTUFFIMA</i> is of type ImaLinkStuff . <i>TXSTUFFIMA</i> is optional.

RXSTUFFIMA Receive Stuff Events (Near End only). Count of stuff events inserted in the receive direction, except during SES-IMA and UAS-IMA conditions. *RXSTUFFIMA* is of type [ImaLinkStuff](#). *RXSTUFFIMA* is optional.

DESC A string description of this object, up to 11 characters in length. *DESC* is a String. *DESC* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "3:NEND,1-
DAY:PERUP=85,PERUPE=85,IVIMA=100,OIFIMA=100,SESIMA=100,UASIMA=10,
TXUUSIMA=10,RXUUSIMA=10,TXFC=50,RXFC=50,TXSTUFFIMA=50,RXSTUFFIMA=50,
  DESC=\\"AP GOS 3\\"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-GOS-EC1

Name

RTRV-GOS-EC1: Retrieve Grade of Service Electrical Carrier

Description

Category: Performance Monitoring

Security: Memory Admin - read

This command is used to retrieve the data parameters and state parameters for an EC1 Grade of Service.

Related Messages:

[DLT-EC1](#)

[DLT-GOS-EC1](#)

[ED-EC1](#)

[ED-GOS-EC1](#)

[ENT-EC1](#)

[ENT-GOS-EC1](#)

[INIT-REG-EC1](#)

[OPR-LPBK-EC1](#)

[REPT ALM EC1](#)

[REPT EVT EC1](#)

[REPT RMV EC1](#)

[REPT RST EC1](#)

[RLS-LPBK-EC1](#)

[RMV-EC1](#)

[RST-EC1](#)

[RTRV-ALM-EC1](#)

[RTRV-COND-EC1](#)

[RTRV-EC1](#)

[RTRV-PM-EC1](#)

Input Format

```
RTRV-GOS-EC1:[ TID ]:<GosAid>:[ CTAG ]::[ <LOCN> ], [ <TMPER> ];
```

Input Parameters

- GosAid** Grade of Service Access Identifier. The address of the EC1 Grade of Service table entry. *GosAid* is the AID [GosAllAid](#). *GosAid* must not be null.
- LOCN** Location. Indicates whether the near end or far end Path PM registers are to be edited. Section PM registers are only kept in association with the near end. *LOCN* is of type [Location](#). A null value defaults to "retrieving both".
- TMPER** Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. *TMPER* is of type [PMPPeriod](#). A null value defaults to "retrieving both".

Input Example

```
RTRV-GOS-EC1:SYS3:5:34::NEND,15-MIN;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD

"<GosAid>:[ <LOCN> ], [ <TMPER> ]:[ [ CVL=<CVL>, ] [ ESL=<ESL>, ] [ SESL=<SESL>, ]
[UASL=<UASL>, ] [ CVS=<CVS>, ] [ ESS=<ESS>, ] [ SESS=<SESS>, ] [ SEFSS=<SEFSS>, ]
[ DESC=<DESC> ] ]"
;
```

Output Parameters

- GosAid** Grade of Service Access Identifier. The address of the EC1 Grade of Service table entry. *GosAid* is the AID [GosAid](#).
- LOCN** Location. Indicates whether the near end or far end Path PM registers are to be edited. Section PM registers are only kept in association with the near end. *LOCN* is of type [Location](#). *LOCN* is optional.
- TMPER** Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. *TMPER* is of type [PMPPeriod](#). *TMPER* is optional.
- CVL** Coding Violations Threshold Line. The threshold value for the coding violations for the line. *CVL* is of type [CVThreshRange](#). *CVL* is optional.
- ESL** Errored Seconds Threshold Line. The threshold value for the errored seconds for the line. *ESL* is of type [SecondsThreshRange](#). *ESL* is optional.
- SESL** Severely Errored Seconds Threshold Line. The threshold value for the severely errored seconds for the line. *SESL* is of type [SecondsThreshRange](#). *SESL* is optional.
- UASL** Unavailable Seconds Threshold Line. The threshold value for the unavailable seconds for the

line. *UASL* is of type [SecondsThreshRange](#). *UASL* is optional.

- CVS** Coding Violations Threshold Section. The threshold value for the coding violations for the section. This parameter does not apply to far end provisioning. *CVS* is of type [CVThreshRange](#). *CVS* is optional.
- ESS** Errorred Seconds Threshold Section. The threshold value for the errorred seconds for the section. This parameter does not apply to far end provisioning. *ESS* is of type [SecondsThreshRange](#). *ESS* is optional.
- SESS** Severely Errorred Seconds Threshold Section. The threshold value for the severely errored seconds for the section. This parameter does not apply to far end provisioning. *SESS* is of type [SecondsThreshRange](#). *SESS* is optional.
- SEFSS** Severely Errorred Framing Seconds Threshold Section. The threshold value for the severely errored framing seconds for the section. This parameter does not apply to far end provisioning. *SEFSS* is of type [SecondsThreshRange](#). *SEFSS* is optional.
- DESC** A string description of this object, up to 11 characters in length. *DESC* is a String. *DESC* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "3:NEND,15-
MIN:CVL=5,ESL=5,SESL=5,UASL=5,CVS=2,ESS=5,SESS=5,SEFSS=3,
  DESC=\\"GOS VERS 3\\"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-GOS-ETH

Name

RTRV-GOS-ETH: Retrieve Grade of Service Ethernet Port

Description

Category: Performance Monitoring

Security: Memory Admin - read

This command is used to retrieve the data parameters and state parameters for a GPON ONT ETH Grade of Service.

Note: Only NEND counters are supported.

Defined in GR-199. This command not available in release 5.1

Related Messages:

DLT-AGG	DLT-AGG-ACL
DLT-AGG-PORT	DLT-ETH
DLT-ETH-ACL	DLT-GOS-ETH
DLT-LSWITCH	DLT-LSWITCH-PORT
DLT-PROF-ETH	DLT-VLAN
DLT-VLAN-PORT	DLT-VLAN-VBPORT
ED-ETH	ED-GOS-ETH
ED-VLAN	ED-VLAN-PORT
ED-VLAN-VBPORT	ENT-AGG
ENT-AGG-ACL	ENT-AGG-PORT
ENT-ETH	ENT-ETH-ACL
ENT-GOS-ETH	ENT-LSWITCH
ENT-LSWITCH-PORT	ENT-PROF-ETH
ENT-VLAN	ENT-VLAN-PORT
ENT-VLAN-VBPORT	INIT-LSWITCH
INIT-STAT-ETH	REPT ALM ETH
REPT EVT ETH	REPT RMV ETH
REPT RST ETH	RMV-ETH
RST-ETH	RTRV-AGG
RTRV-AGG-ACL	RTRV-AGG-PORT
RTRV-ALM-ETH	RTRV-COND-ETH
RTRV-ETH	RTRV-ETH-ACL
RTRV-LSWITCH	RTRV-LSWITCH-PORT
RTRV-PM-ETH	RTRV-PROF-ETH
RTRV-STAT-ETH	RTRV-VLAN
RTRV-VLAN-PORT	RTRV-VLAN-VBPORT

Input Format

```
RTRV-GOS-ETH:[TID]:<GosAid>:[CTAG]::[<LOCN>],[<TMPER>];
```

Input Parameters

GosAid *GosAid* is the AID [GosAllAid](#) and is listable and rangeable. *GosAid* must not be null.

LOCN Location. This parameter indicates the location, in reference to the entity identified by the ONT Ethernet Port. (Only NEND is supported.) *LOCN* is of type [Location](#) and can be one of the following values: "NEND". A null value is equivalent to "ALL".

TMPER Time Period. This indicates the length of the accumulation time period to which the retrieved parameters apply. *TMPER* is of type [PMPPeriod](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-GOS-ETH:SYS1:3:55::NEND,15-MIN;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<GosAid>:[<LOCN>,[<TMPER>,[ [ FCSERROR=<FCSERROR>,[ XSCOLL=<XSCOLL>,
[LATECOLL=<LATECOLL>,[ TOOLONG=<TOOLONG>,[ INBUFOVFL=<INBUFOVFL>,
[ OUTBUFOVFL=<OUTBUFOVFL>,[ SQTEST=<SQTEST>,[ DEFERRED=<DEFERRED>,
[ ALIGNERR=<ALIGNERR>,[ RXINTERR=<RXINTERR>,[ DESC=<DESC> ] "
;]
```

Output Parameters

GosAid	<i>GosAid</i> is the AID GosAid .
LOCN	Location. This parameter indicates the location, in reference to the entity identified by the ONT Ethernet Port. <i>LOCN</i> is of type Location . <i>LOCN</i> is optional.
TMPER	Time Period. This indicates the length of the accumulation time period to which the retrieved parameters apply. <i>TMPER</i> is of type PMPPeriod . <i>TMPER</i> is optional.
FCSERROR	FCS Error Counter. <i>FCSERROR</i> is a Integer. <i>FCSERROR</i> is optional.
XSCOLL	Excessive Collision Counter. <i>XSCOLL</i> is a Integer. <i>XSCOLL</i> is optional.
LATECOLL	Late Collision Counter. <i>LATECOLL</i> is a Integer. <i>LATECOLL</i> is optional.
TOOLONG	FrameTooLongs. <i>TOOLONG</i> is a Integer. <i>TOOLONG</i> is optional.
INBUFOVFL	Buffer Overflows on Receive. <i>INBUFOVFL</i> is a Integer. <i>INBUFOVFL</i> is optional.
OUTBUFOVFL	Buffer Overflows on Transmit. <i>OUTBUFOVFL</i> is a Integer. <i>OUTBUFOVFL</i> is optional.
SQTEST	SQE Counter. <i>SQTEST</i> is a Integer. <i>SQTEST</i> is optional.
DEFERRED	Deferred Transmission Counter. <i>DEFERRED</i> is a Integer. <i>DEFERRED</i> is optional.
ALIGNERR	Alignment Error Counter. <i>ALIGNERR</i> is a Integer. <i>ALIGNERR</i> is optional.
RXINTERR	Internal MAC Receive Error Counter. <i>RXINTERR</i> is a Integer. <i>RXINTERR</i> is optional.
DESC	A string description of this object, up to 11 characters in length. <i>DESC</i> is a String. <i>DESC</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"3:NEND,15-
MIN,FCSERROR=2,XSCOLL=2,LATECOLL=2,TOOLONG=2,INBUFOVFL=2,
OUTBUFOVFL=2,SQTEST=3,DEFERRED=2,ALIGNERR=2,RXINTERR=2,
DESC=\\"ETH GOS 3\\"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-GOS-HDSL

Name

RTRV-GOS-HDSL: Retrieve Grade of Service High bit rate Digital Subscriber Line

Description

Category: Performance Monitoring **Security:** Memory Admin - read

This command is used to retrieve the data parameters and state parameters for a HDSL Grade of Service.

Note: CV-L, ES-L, and SES-L will not be displayed for Far-End GOS.

Defined in GR-199.

Related Messages:

DLT-GOS-HDSL	DLT-HDSL
ED-GOS-HDSL	ED-HDSL
ENT-GOS-HDSL	ENT-HDSL
INIT-HDSL	INIT-REG-HDSL
OPR-LPBK-HDSL	REPT ALM HDSL
REPT EVT HDSL	REPT RMV HDSL
REPT RST HDSL	RLS-LPBK-HDSL
RMV-HDSL	RST-HDSL
RTRV-ALM-HDSL	RTRV-COND-HDSL
RTRV-CSTAT-HDSL	RTRV-HDSL
RTRV-HTU	RTRV-PM-HDSL

Input Format

RTRV-GOS-HDSL: [TID] :<GosAid>: [CTAG] :: [<LOCN>] , [<TMPER>] ;

Input Parameters

GosAid Grade of Service Access Identifier. The address of the T1 Grade of Service table entry. *GosAid* is the AID [GosAllAid](#) and is listable and rangeable. *GosAid* must not be null.

LOCN Location. Indicates whether the near end or far end grade of service parameters are being retrieved. A null value retrieves both. *LOCN* is of type [Location](#). A null value defaults to "both".

TMPER Time Period. This indicates the length of the accumulation time period to which the retrieved parameters apply. Currently 15-MIN and 1-DAY periods are supported. A null value retrieves both. *TMPER* is of type [PMPeriod](#). A null value defaults to "both".

Input Example

RTRV-GOS-HDSL:SYS1:3:55::NEND,1-DAY

Output Format

```
    SID DATE TIME
M   CTAG COMPLD

"<GosAid>:[<LOCN>],[<TMPER>]:[[CVP=<CVP>,[ESP=<ESP>,[SESP=<SESP>,
[CSSP=<CSSP>,[UASP=<UASP>,[CVL=<CVL>,[ESL=<ESL>,[SESL=<SESL>,
[LOWSWL=<LOWSWL>,[UASL=<UASL>,[RTRN=<RTRN>,[DESC=<DESC>]]"
;
```

Output Parameters

GosAid Grade of Service Access Identifier. The address of the T1 Grade of Service table entry. *GosAid* is the AID [GosAid](#).

LOCN Location. Indicates whether the retrieved parameters apply to the near end or far end grade of service. *LOCN* is of type [Location](#). *LOCN* is optional.

TMPER Time Period. This indicates the length of the accumulation time period to which the retrieved parameters apply. *TMPER* is of type [PMPeriod](#). *TMPER* is optional.

CVP Coding Violations Path. The threshold value for the coding violations for the path. The default threshold for 15-MIN is 13,296 and for 1-DAY is 132,960. *CVP* is of type [CVThreshRange](#). *CVP* is optional.

ESP Errored Seconds Path. The threshold value for the errored seconds for the path. The default threshold for 15-MIN is 65 and for 1-DAY is 648. *ESP* is of type [SecondsThreshRange](#). *ESP* is optional.

SESP Severely Errored Seconds Path. The threshold value for the severely errored seconds for the path. The default threshold for 15-MIN is 10 and for 1-DAY is 100. *SESP* is of type [SecondsThreshRange](#). *SESP* is optional.

CSSP Controlled Slip Seconds Path. The threshold value for the controlled slip seconds path. The default threshold for 15-MIN is 1 and for 1-DAY is 4. *CSSP* is of type [SecondsThreshRange](#). *CSSP* is optional.

UASP Severely Errored Seconds Path. The threshold value for the unavailable seconds for the path. The default threshold for 15-MIN is 10 and for 1-DAY is 10. *UASP* is of type [SecondsThreshRange](#). *UASP* is optional.

CVL Coding Violations Line. The threshold value for the coding violations for the line (Near End only). The default threshold for 15-MIN is 13,340 and for 1-DAY is 133,400. *CVL* is of type [CVThreshRange](#). *CVL* is optional.

- ESL** Errored Seconds Line. The threshold value for the errored seconds for the line (Near End only). The default threshold for 15-MIN is 65 and for 1-DAY is 648. *ESL* is of type [SecondsThreshRange](#). *ESL* is optional.
- SESL** Severely Errored Seconds Threshold Line. The threshold value for the severely errored seconds for the line. The default threshold for 15-MIN is 10 and for 1-DAY is 100. *SESL* is of type [SecondsThreshRange](#). *SESL* is optional.
- LOSWSL** Loss of Sync Word Seconds Line (Near End). The default threshold for 15-MIN is 30 seconds and for 1-DAY is 120 seconds. *LOSWSL* is of type [SecondsThreshRange](#). *LOSWSL* is optional.
- UASL** Unavailable Seconds Threshold Line. The threshold value for the unavailable seconds for the line. The default threshold for 15-MIN is 60 seconds and for 1-DAY is 120 seconds. *UASL* is of type [SecondsThreshRange](#). *UASL* is optional.
- RTRN** ReTRaiN count (Near End only). The threshold value for number of retrains on either loop (individually). The default threshold for 15-MIN is 3 retrains and for 1-DAY is 10 retrains. *RTRN* is a Integer. *RTRN* is optional.
- DESC** A string description of this object, up to 11 characters in length. *DESC* is a String. *DESC* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "3:NEND,1-
DAY:CVP=10,ESP=15,SESP=10,CSSP=5,UASP=5,CVL=5,ESL=5,SESL=5,
    LOSWSL=2,UASL=6,RTRN=1,DESC=\"3\""
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-GOS-IMA

Name

RTRV-GOS-IMA: Retrieve Grade of Service IMA

Description

Category: Performance Monitoring

Security: Memory Admin - read

This command is used to retrieve the data parameters and state parameters for an IMA Group Grade of Service.

Related Messages:

DLT-AP	DLT-AP-T1
DLT-GOS-AP	DLT-GOS-IMA
DLT-GOS-IMALINK	DLT-IMA
DLT-IMA-PORT	ED-AP
ED-GOS-AP	ED-GOS-IMA
ED-GOS-IMALINK	ED-IMA
ENT-AP	ENT-AP-T1
ENT-GOS-AP	ENT-GOS-IMA
ENT-GOS-IMALINK	ENT-IMA
ENT-IMA-PORT	INIT-REG-AP
INIT-REG-IMA	INIT-REG-IMALINK
REPT ALM AP	REPT ALM IMA
REPT ALM IMALINK	REPT EVT AP
REPT EVT IMA	REPT EVT IMALINK
REPT RMV AP	REPT RST AP
RMV-AP	RMV-IMA
RST-AP	RST-IMA
RTRV-ALM-AP	RTRV-ALM-IMA
RTRV-ALM-IMALINK	RTRV-AP
RTRV-COND-AP	RTRV-COND-IMA
RTRV-GOS-AP	RTRV-GOS-IMALINK
RTRV-IMA	RTRV-PM-AP
RTRV-PM-IMA	RTRV-PM-IMALINK

Input Format

```
RTRV-GOS-IMA:[TID]:<GosAid>:[CTAG]::[<LOCN>],[<TMPER>];
```

Input Parameters

GosAid Grade of Service Access Identifier. The address of the IMA Group Grade of Service table entry. *GosAid* is the AID [GosAllAid](#). *GosAid* must not be null.

LOCN Location. Indicates whether the near end or far end Path PM registers are to be edited. Section PM registers are only kept in association with the near end. *LOCN* is of type [Location](#). A null value defaults to "retrieving both".

TMPER Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. *TMPER* is of type [PMPPeriod](#). A null value defaults to "retrieving both".

Input Example

```
RTRV-GOS-IMA:SYS1:3:55::NEND,1-DAY;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<GosAid>:[<LOCN> , [<TMPER> : [ [ GRFC=<GRFC> , ] [ GRUASIMA=<GRUASIMA> , ]
[ PERUP=<PERUP> , ] [ PERUPE=<PERUPE> , ] [ DESC=<DESC> ] ]"
;

```

Output Parameters

GosAid	Grade of Service Access Identifier. The address of the IMA Group Grade of Service table entry. <i>GosAid</i> is the AID GosAid .
LOCN	Location. Indicates whether the near end or far end Path PM registers are to be edited. Section PM registers are only kept in association with the near end. <i>LOCN</i> is of type Location . <i>LOCN</i> is optional.
TMPER	Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. <i>TMPER</i> is of type PMPeriod . <i>TMPER</i> is optional.
GRFC	Group failure count. Default threshold for 15MIN interval is 30 seconds. Default threshold for 1 Day is 300 seconds. <i>GRFC</i> is of type SecondsThreshRange . <i>GRFC</i> is optional.
GRUASIMA	Count of seconds where IMA GTSM is down (Near End only). Default threshold for 15MIN interval is 30 seconds. Default threshold for 1 Day is 300 seconds. <i>GRUASIMA</i> is of type SecondsThreshRange . <i>GRUASIMA</i> is optional.
PERUP	Percent Utilization - Path, Ingress (Near End only). Default value is 85 percent. <i>PERUP</i> is of type Percentage . <i>PERUP</i> is optional.
PERUPE	Percent Utilization - Path, Egress (Near End only). Default value is 85 percent. <i>PERUPE</i> is of type Percentage . <i>PERUPE</i> is optional.
DESC	A string description of this object, up to 11 characters in length. <i>DESC</i> is a String. <i>DESC</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"3:NEND,1-DAY:GRFC=130,GRUASIMA=150,PERUP=85,PERUPE=85,
DESC=\\"GOS VERS 3\\\""
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-GOS-IMALINK

Name

RTRV-GOS-IMALINK: Retrieve Grade of Service IMALINK

Description

Category: Performance Monitoring

Security: Memory Admin - read

This command is used to retrieve the data parameters and state parameters for an IMA Link Grade of Service.

Related Messages:

[DLT-AP](#)

[DLT-GOS-AP](#)

[DLT-GOS-IMALINK](#)

[DLT-IMA-PORT](#)

[ED-GOS-AP](#)

[ED-GOS-IMALINK](#)

[ENT-AP](#)

[ENT-GOS-AP](#)

[ENT-GOS-IMALINK](#)

[ENT-IMA-PORT](#)

[INIT-REG-IMA](#)

[REPT ALM AP](#)

[REPT ALM IMALINK](#)

[REPT EVT IMA](#)

[REPT RMV AP](#)

[RMV-AP](#)

[RST-AP](#)

[RTRV-ALM-AP](#)

[RTRV-ALM-IMALINK](#)

[RTRV-COND-AP](#)

[RTRV-GOS-AP](#)

[RTRV-IMA](#)

[RTRV-PM-IMA](#)

[DLT-AP-T1](#)

[DLT-GOS-IMA](#)

[DLT-IMA](#)

[ED-AP](#)

[ED-GOS-IMA](#)

[ED-IMA](#)

[ENT-AP-T1](#)

[ENT-GOS-IMA](#)

[ENT-IMA](#)

[INIT-REG-AP](#)

[INIT-REG-IMALINK](#)

[REPT ALM IMA](#)

[REPT EVT AP](#)

[REPT EVT IMALINK](#)

[REPT RST AP](#)

[RMV-IMA](#)

[RST-IMA](#)

[RTRV-ALM-IMA](#)

[RTRV-AP](#)

[RTRV-COND-IMA](#)

[RTRV-GOS-IMA](#)

[RTRV-PM-AP](#)

[RTRV-PM-IMALINK](#)

Input Format

RTRV-GOS-IMALINK:[TID]:<GosAid>:[CTAG]:::<LOCN>,[<TMPER>];
--

Input Parameters

- GosAid** Grade of Service Access Identifier. The address of the IMA Link Grade of Service table entry. *GosAid* is the AID [GosAllAid](#). *GosAid* must not be null.
- LOCN** Location. Indicates whether the near end or far end Path PM registers are to be edited. Section PM registers are only kept in association with the near end. *LOCN* is of type [Location](#). A null value defaults to "retrieving both".
- TMPER** Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. *TMPER* is of type [PMPPeriod](#). A null value defaults to "retrieving both".

Input Example

```
RTRV-GOS-IMALINK:SYS1:3:55::NEND,1-DAY;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<GosAid>:[<LOCN>],[<TMPER>]:[[IVIMA=<IVIMA>],[SESIMA=<SESIMA>,
[UASIMA=<UASIMA>],[TXUUSIMA=<TXUUSIMA>],[RXUUSIMA=<RXUUSIMA>,
[TXFC=<TXFC>],[RXFC=<RXFC>],[TXSTUFFIMA=<TXSTUFFIMA>,
[RXSTUFFIMA=<RXSTUFFIMA>],[OIFIMA=<OIFIMA>],[DESC=<DESC>]]"
;
```

Output Parameters

- GosAid** Grade of Service Access Identifier. The address of the IMA Link Grade of Service table entry. *GosAid* is the AID [GosAid](#).
- LOCN** Location. Indicates whether the near end or far end Path PM registers are to be edited. Section PM registers are only kept in association with the near end. *LOCN* is of type [Location](#). *LOCN* is optional.
- TMPER** Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. *TMPER* is of type [PMPPeriod](#). *TMPER* is optional.
- IVIMA** ICP Violations. Count of errored, invalid, or missing ICP cells, except during seconds where a SES-IMA or UAS-IMA condition is reported (Near End only). Default threshold for 15MIN interval is 15 seconds. Default threshold for 1 DAY interval is 150 seconds. *IVIMA* is of type [SecondsThreshRange](#). *IVIMA* is optional.
- SESIMA** Severely Errored Seconds. Count of 1-second intervals containing $\geq 30\%$ of the ICP cells counted as IV-IMAs, or one or more near-end link defects (facility, LIF, or LODS) during non-UAS-IMA intervals. The number of IV-IMA counts required to meet the 30% criteria will depend on the facility line rate and the IMA frame size (M). Default threshold for 15MIN interval is 15 seconds. Default threshold for 1 DAY interval is 150 seconds. *SESIMA* is of type [SecondsThreshRange](#). *SESIMA* is optional.
- UASIMA** Unavailable seconds at NE. The NE unavailability begins at the onset of 10 contiguous SES-IMA including the first 10 seconds to enter the UAS-IMA condition, and ends at the onset of 10 contiguous second with no SES-IMA, excluding the last 10 seconds to exit the UAS-IMA condition. Default threshold for 15MIN interval is 15 seconds.

Default threshold for 1 DAY interval is 150 seconds. *UASIMA* is of type [SecondsThreshRange](#). *UASIMA* is optional.

TXUUSIMA	Transit Unusable Seconds (Near End only). Count of Tx Unusable seconds at the Tx NE Link State Machine (LSM). Default threshold for 15MIN interval is 15 seconds. Default threshold for 1 DAY interval is 150 seconds. <i>TXUUSIMA</i> is of type SecondsThreshRange . <i>TXUUSIMA</i> is optional.
RXUUSIMA	Receive Unusable Seconds (Near End only). Count of Rx Unusable seconds at the Rx NE LSM. Default threshold for 15MIN interval is 15 seconds. Default threshold for 1 DAY interval is 150 seconds. <i>RXUUSIMA</i> is of type SecondsThreshRange . <i>RXUUSIMA</i> is optional.
TXFC	Transit Failure Count. Count of the number of NE Transmit Link failure alarm entrances. The possible NE Tx link failure alarm conditions are: Tx-Mis-Connected and Tx-Fault. Default threshold for 15MIN interval is 15 seconds. Default threshold for 1 DAY interval is 150 seconds. <i>TXFC</i> is of type SecondsThreshRange . <i>TXFC</i> is optional.
RXFC	Receive Failure Count. Count of the number of NE Receive Link failure alarm entrances. The possible NE Rx link failure alarm conditions are: LIF, LODS, and Rx-Fault. Default threshold for 15MIN interval is 15 seconds. Default threshold for 1 DAY interval is 150 seconds. <i>RXFC</i> is of type SecondsThreshRange . <i>RXFC</i> is optional.
TXSTUFFIMA	Transmit Stuff Events (Near End only). Count of stuff events inserted in the transmitted direction. Default value is 0. <i>TXSTUFFIMA</i> is of type ImaLinkStuff . <i>TXSTUFFIMA</i> is optional.
RXSTUFFIMA	Receive Stuff Events (Near End only). Count of stuff events inserted in the receive direction, except during SES-IMA and UAS-IMA conditions. Default value is 0. <i>RXSTUFFIMA</i> is of type ImaLinkStuff . <i>RXSTUFFIMA</i> is optional.
OIFIMA	Out of IMA Frame (Near End only). Count of OIF anomalies except during SES-IMA or UAS-IMA conditions. Default threshold for 15MIN interval is 15 seconds. Default threshold for 1 DAY interval is 150 seconds. <i>OIFIMA</i> is of type SecondsThreshRange . <i>OIFIMA</i> is optional.
DESC	A string description of this object, up to 11 characters in length. <i>DESC</i> is a String. <i>DESC</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "3:NEND,1-
DAY:IVIMA=100,SESIMA=100,UASIMA=10,TXUUSIMA=10,RXUUSIMA=10,
  TXFC=50,RXFC=50,TXSTUFFIMA=50,RXSTUFFIMA=50,OIFIMA=100,
  DESC=\\"GOS VERS 3\\"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-GOS-ONT

Name

RTRV-GOS-ONT: Retrieve Grade of Service Optical Network Termination

Description

Category: Performance Monitoring

Security: Memory Admin - read

This command is used to retrieve the data parameters and state parameters for a GPON Grade of Service.

Note: Only NEND is supported for MISSING and MES counters.

Defined in GR-199. *This command not available in release 5.1*

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV ONT	REPT RMV RFVID
REPT RST AVO	REPT RST ONT
REPT RST RFVID	RMV-AVO
RMV-ONT	RMV-RFVID
RST-AVO	RST-ONT
RST-RFVID	RTRV-ALM-AVO
RTRV-ALM-ONT	RTRV-ALM-RFVID
RTRV-ALM-VCG	RTRV-ALM-VRP
RTRV-AVO	RTRV-COND-ONT
RTRV-COND-VCG	RTRV-COND-VRP
RTRV-IG-VDS1	RTRV-ONT

[RTRV-ONT-UA](#)
[RTRV-PROF-ONT](#)
[RTRV-STAT-HPNA](#)
[RTRV-VCG](#)
[RTRV-VRP](#)

[RTRV-PM-ONT](#)
[RTRV-RFVID](#)
[RTRV-STAT-RFR](#)
[RTRV-VDS1](#)
[TST-ONT-MET](#)

Input Format

```
RTRV-GOS-ONT:[TID]:<GosAid>:[CTAG]::[<LOCN>],[<TMPER>];
```

Input Parameters

- GosAid** *GosAid* is the AID [GosAllAid](#) and is listable and rangeable. *GosAid* must not be null.
- LOCN** *LOCN* is of type [Location](#). A null value is equivalent to "ALL".
- TMPER** *TMPER* is of type [PMPPeriod](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-GOS-ONT:SYS1:3:55::NEND,15-MIN;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<GosAid>:[<LOCN>],[<TMPER>]:[[BIP8=<BIP8>,[BES=<BES>,[SES=<SES>,
[UAS=<UAS>,[MISSING=<MISSING>,[MES=<MES>,[DESC=<DESC>]]"
;
```

Output Parameters

- GosAid** *GosAid* is the AID [GosAid](#).
- LOCN** Location. Indicates whether the retrieved parameters apply to the near end or far end grade of service. *LOCN* is of type [Location](#). *LOCN* is optional.
- TMPER** Time Period. This indicates the length of the accumulation time period to which the retrieved parameters apply. *TMPER* is of type [PMPPeriod](#). *TMPER* is optional.
- BIP8** BIP8 errors detected on PON transport. NE is OLT detected, FE is ONT detected *BIP8* is a Integer. *BIP8* is optional.
- BES** Number of seconds during the period when a BIP8 error was detected. For the FE case, the granularity is 5 seconds rather than 1 second. *BES* is a Integer. *BES* is optional.
- SES** For NEND this is the count of seconds where either the BIP8 count has exceeded a threshold or where the number of missing bursts equals the number of possible bursts for the ONT.

For FEND this is the count of seconds where the BIP8 count has exceeded a threshold. For the FE case the granularity is 5 seconds rather than 1 second. *SES* is a Integer. *SES* is

optional.

- UAS** This is defined a N consecutive SES. Once unavailable, N consecutive seconds must pass without SES before coming available again. In the FEND case this is a 5 second granularity rather than 1 second. *UAS* is a Integer. *UAS* is optional.
- MISSING** Count of missed bursts (no received traffic from ONT in allocated timeslot). NE Only. *MISSING* is a Integer. *MISSING* is optional.
- MES** Number of seconds during the period when a missing error was detected. NEND only. *MES* is a Integer. *MES* is optional.
- DESC** DESCription. A user-settable description field, up to 31 characters. *DESC* is a String. *DESC* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"3:NEND,15-MIN:BIP8=2,BES=3,SES=3,UAS=3,MISSING=2,MES=3,
DESC=\\"PON GOS 3\\\""
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-GOS-T1

Name

RTRV-GOS-T1: Retrieve Grade of Service Digital Signal 1

Description

Category: Performance Monitoring **Security:** Memory Admin - read

This command is used to retrieve the data parameters and state parameters for a T1 Grade of Service.

Note: CV-L, ES-L, and SES-L will not be displayed for Far-End GOS.

Defined in GR-199.

Related Messages:

[DLT-AP-T1](#)
[DLT-GOS-T1](#)
[ED-GOS-T1](#)

[DLT-CRS-T1](#)
[DLT-T1](#)
[ED-T1](#)

[ENT-AP-T1](#)
[ENT-GOS-T1](#)
[INIT-REG-T1](#)
[REPT ALM T1](#)
[REPT RMV T1](#)
[RLS-LPBK-T1](#)
[RST-T1](#)
[RTRV-COND-T1](#)
[RTRV-PM-T1](#)

[ENT-CRS-T1](#)
[ENT-T1](#)
[OPR-LPBK-T1](#)
[REPT EVT T1](#)
[REPT RST T1](#)
[RMV-T1](#)
[RTRV-ALM-T1](#)
[RTRV-CRS-T1](#)
[RTRV-T1](#)

Input Format

```
RTRV-GOS-T1:[TID]:<GosAid>:[CTAG]::[<LOCN>],[<TMPER>];
```

Input Parameters

GosAid Grade of Service Access Identifier. The address of the T1 Grade of Service table entry. *GosAid* is the AID [GosAllAid](#) and is listable and rangeable. *GosAid* must not be null.

LOCN Location. Indicates whether the near end or far end grade of service parameters are being retrieved. A null value retrieves both. *LOCN* is of type [Location](#). A null value defaults to "retrieving both".

TMPER Time Period. This indicates the length of the accumulation time period to which the retrieved parameters apply. Currently 15-MIN and 1-DAY periods are supported. A null value retrieves both. *TMPER* is of type [PMPPeriod](#). A null value defaults to "retrieving both".

Input Example

```
RTRV-GOS-T1:SYS1:3:55::NEND,1-DAY;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<GosAid>:[<LOCN>],[<TMPER>]:[[CVP=<CVP>,[ESP=<ESP>,[SESP=<SESP>,
[SASP=<SASP>,[CSSP=<CSSP>,[UASP=<UASP>,[CVL=<CVL>,[ESL=<ESL>,
[SESL=<SESL>,[PERUP=<PERUP>,[PERUPE=<PERUPE>,[DESC=<DESC>]]"
;
```

Output Parameters

GosAid Grade of Service Access Identifier. The address of the T1 Grade of Service table entry. *GosAid* is the AID [GosAid](#).

LOCN Location. Indicates whether the retrieved parameters apply to the near end or far end grade of service. *LOCN* is of type [Location](#). *LOCN* is optional.

- TMPER** Time Period. This indicates the length of the accumulation time period to which the retrieved parameters apply. *TMPER* is of type [PMPeriod](#). *TMPER* is optional.
- CVP** Coding Violations Path. The threshold value for the coding violations path. *CVP* is of type [CVThreshRange](#). *CVP* is optional.
- ESP** Errored Seconds Path. The threshold value for the errored seconds path. *ESP* is of type [SecondsThreshRange](#). *ESP* is optional.
- SESP** Severely Errored Seconds Path. The threshold value for the severely errored seconds path. *SESP* is of type [SecondsThreshRange](#). *SESP* is optional.
- SASP** Severely Errored Framing/Alarm Indication Signal Second Count. The threshold value for the severely errored framing/alarm indication signal second count. *SASP* is of type [SecondsThreshRange](#). *SASP* is optional.
- CSSP** Controlled Slip Seconds Path. The threshold value for the controlled slip seconds path. *CSSP* is of type [SecondsThreshRange](#). *CSSP* is optional.
- UASP** Severely Errored Seconds Path. The threshold value for the severely errored seconds path. *UASP* is of type [SecondsThreshRange](#). *UASP* is optional.
- CVL** Coding Violations Line. The threshold value for the coding violations line. *CVL* is of type [CVThreshRange](#). *CVL* is optional.
- ESL** Errored Seconds Line. The threshold value for the errored seconds line. *ESL* is of type [SecondsThreshRange](#). *ESL* is optional.
- SESL** Severely Errored Seconds Threshold Line. The threshold value for the severely errored seconds for the line. The default threshold for 15-MIN is 10 and for 1-DAY is 100. *SESL* is of type [SecondsThreshRange](#). *SESL* is optional.
- PERUP** Percent Utilization - Path, Ingress (Near End only). *PERUP* is of type [Percentage](#). *PERUP* is optional.
- PERUPE** Percent Utilization - Path, Egress (Near End only). *PERUPE* is of type [Percentage](#). *PERUPE* is optional.
- DESC** A string description of this object, up to 11 characters in length. *DESC* is a String. *DESC* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
  "3:NEND,1-
DAY:CVP=10,ESP=15,SESP=10,SASP=5,CSSP=5,UASP=5,CVL=5,ESL=5,
  SESL=5,PERUP=85,PERUPE=85,DESC=\\"GOS VERS 3\\"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-GOS-T3

Name

RTRV-GOS-T3: Retrieve Grade of Service Digital Signal 3

Description

Category: Performance Monitoring

Security: Memory Admin - read

This command is used to retrieve the data parameters and state parameters for a T3 Grade of Service.

Note: CV-L, ES-L, and SES-L will not be displayed for Far-End GOS.

Defined in GR-199.

Related Messages:

[DLT-GOS-T3](#)

[DLT-T3](#)

[ED-GOS-T3](#)

[ED-T3](#)

[ENT-GOS-T3](#)

[ENT-T3](#)

[INIT-REG-T3](#)

[OPR-LPBK-T3](#)

[REPT ALM T3](#)

[REPT EVT T3](#)

[REPT RMV T3](#)

[REPT RST T3](#)

[RLS-LPBK-T3](#)

[RMV-T3](#)

[RST-T3](#)

[RTRV-ALM-T3](#)

[RTRV-COND-T3](#)

[RTRV-PM-T3](#)

[RTRV-T3](#)

Input Format

```
RTRV-GOS-T3:[TID]:<GosAid>:[CTAG]:::<LOCN>,[<TMPPER>];
```

Input Parameters

GosAid Grade of Service Access Identifier. The address of the T3 Grade of Service table entry. *GosAid* is the AID [GosAllAid](#) and is listable and rangeable. *GosAid* must not be null.

LOCN Location. Indicates whether the near end or far end grade of service parameters are being retrieved. A null value retrieves both. *LOCN* is of type [Location](#). A null value defaults to "retrieving both".

TMPPER Time Period. This indicates the length of the accumulation time period to which the retrieved parameters apply. Currently 15-MIN and 1-DAY periods are supported. A null value retrieves both. *TMPPER* is of type [PMPPeriod](#). A null value defaults to "retrieving both".

Input Example

RTRV-GOS-T3:SYS3:3:324::FEND,1-DAY;

Output Format

```

SID DATE TIME
M CTAG COMPLD

" <GosAid>:[<LOCN>,[<TMPER>:[[CVP=<CVP>,[ESP=<ESP>,[SESP=<SESP>,
[SASP=<SASP>,[UASP=<UASP>,[CVL=<CVL>,[ESL=<ESL>,[SESL=<SESL>,
[PERUP=<PERUP>,[PERUPE=<PERUPE>,[DESC=<DESC>]]"
;
```

Output Parameters

- GosAid** Grade of Service Access Identifier. The address of the T3 Grade of Service table entry. *GosAid* is the AID [GosAid](#).
- LOCN** Location. Indicates whether the retrieved parameters apply to the near end or far end grade of service. *LOCN* is of type [Location](#). *LOCN* is optional.
- TMPER** Time Period. This indicates the length of the accumulation time period to which the retrieved parameters apply. *TMPER* is of type [PMPeriod](#). *TMPER* is optional.
- CVP** Coding Violations Path. The threshold value for the coding violations path. Note also that the corresponding CP parameter (CVCP) is set via this same field, since they have the same thresholds. *CVP* is of type [CVThreshRange](#). *CVP* is optional.
- ESP** Errored Seconds Path. The threshold value for the errored seconds path. Note also that the corresponding CP parameter (ESCP) is set via this same field, since they have the same thresholds. *ESP* is of type [SecondsThreshRange](#). *ESP* is optional.
- SESP** Severely Errored Seconds Path. The threshold value for the severely errored seconds path. Note also that the corresponding CP parameter (SESCP) is set via this same field, since they have the same thresholds. *SESP* is of type [SecondsThreshRange](#). *SESP* is optional.
- SASP** Severely Errored Framing/Alarm Indication Signal Second Count. The threshold value for the severely errored framing/alarm indication signal second count. Note also that the corresponding CP parameter (SASCP) is set via this same field, since they have the same thresholds. *SASP* is of type [SecondsThreshRange](#). *SASP* is optional.
- UASP** Unavailable Seconds Path. The threshold value for the unavailable seconds path. Note also that the corresponding CP parameter (UASCP) is set via this same field, since they have the same thresholds. *UASP* is of type [SecondsThreshRange](#). *UASP* is optional.
- CVL** Coding Violations Threshold Line. The threshold value for the unavailable seconds for the line. *CVL* is of type [CVThreshRange](#). *CVL* is optional.
- ESL** Errored Seconds Line. The threshold value for the errored seconds line. *ESL* is of type [SecondsThreshRange](#). *ESL* is optional.
- SESL** Severely Errored Seconds Threshold Line. The threshold value for the severely errored seconds for the line. The default threshold for 15-MIN is 10 and for 1-DAY is 100. This parameter does not apply to far end provisioning. *SESL* is of type [SecondsThreshRange](#). *SESL* is optional.
- PERUP** Percent Utilization - Path, Ingress (Near End only). *PERUP* is of type [Percentage](#). *PERUP* is optional.

PERUPE Percent Utilization - Path, Egress (Near End only) *PERUPE* is of type [Percentage](#). *PERUPE* is optional.

DESC A string description of this object, up to 11 characters in length. *DESC* is a String. *DESC* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "3:FEND,1-
DAY:CVP=10,ESP=15,SESP=10,SASP=6,UASP=5,CVL=6,ESL=5,SESL=5,
  PERUP=85,PERUPE=85,DESC=\ "GOS VERS 3\ "
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-GR303

Name

RTRV-GR303: Retrieve GR303

Description

Category: TDM Services **Security:** Memory Admin - read

This command retrieves the attributes associated with the GR-303 Interface Group.

Defined by Calix.

Related Messages:

[ALW-Swdx-GR303](#)

[DLT-CRS-T0](#)

[DLT-GR8](#)

[DLT-T1TG](#)

[ED-GR8](#)

[ENT-GR303](#)

[ENT-IG-DS1](#)

[INH-Swdx-GR303](#)

[REPT ALM GR303](#)

[REPT EVT GR303](#)

[ALW-Swdx-T1TG](#)

[DLT-GR303](#)

[DLT-IG-DS1](#)

[ED-GR303](#)

[ENT-CRS-T0](#)

[ENT-GR8](#)

[ENT-T1TG](#)

[INH-Swdx-T1TG](#)

[REPT ALM T1TG](#)

[REPT EVT T1TG](#)

[REPT SW GR303](#)
[RTRV-ALM-GR303](#)
[RTRV-COND-GR303](#)
[RTRV-CRS-T0](#)
[RTRV-DLSTAT-T1TG](#)
[RTRV-IG-DS1](#)
[SW-DX-GR303](#)

[REPT SW T1TG](#)
[RTRV-ALM-T1TG](#)
[RTRV-COND-T1TG](#)
[RTRV-DLSTAT-GR303](#)
[RTRV-GR8](#)
[RTRV-T1TG](#)
[SW-DX-T1TG](#)

Input Format

```
RTRV-GR303:[TID]:<IgAid>:[CTAG];
```

Input Parameters

IgAid GR303 Interface Group Access Identifier. The address of the GR-303 Interface Group being retrieved. *IgAid* is the AID [IgRngAid](#) and is listable and rangeable. *IgAid* must not be null.

Input Example

```
RTRV-GR303:SYS1:N4-1-IG4:345;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
  "<IgAid>::[[PRIOP=<PRIOP>, ][SECOP=<SECOP>, ][ACTVOP=<ACTVOP>, ]
[SWTYPE=<SWTYPE>, ][T308=<T308>, ][T303=<T303>, ][T396=<T396>, ]
[T397=<T397>, ][EOCALARM=<EOCALARM>, ][EOCUPSST=<EOCUPSST>, ]
[ FLOWTHROUGH=<FLOWTHROUGH> ] ]"
;
```

Output Parameters

IgAid	GR303 Interface Group Access Identifier. The address of the GR-303 Interface Group retrieved. <i>IgAid</i> is the AID IgAid .
PRIOP	Primary Operations Processor. This parameter identifies the Primary Operations Processor which terminates the EOC channel. <i>PRIOP</i> is the AID MsNoneAid . <i>PRIOP</i> is optional.
SECOP	Secondary Operations Processor. This parameter identifies the Secondary Operations Processor which terminates the EOC channel. <i>SECOP</i> is the AID MsNoneAid . <i>SECOP</i> is optional.
ACTVOP	Active Operations Processor. This field indicates which Operations Processor is active: Primary, Secondary, or Neither. <i>ACTVOP</i> is of type ActiveAmp . <i>ACTVOP</i> is optional.
SWTYPE	Switch Type. This parameter indicate the type of switch which the GR-303 interface group is connected to. <i>SWTYPE</i> is of type SwitchType . <i>SWTYPE</i> is

optional.

T308	T308 Timer. Identifies timer T308 used at Layer 3 and specifies the maximum length of time in seconds the RDT will wait for a reply to a RELEASE message. <i>T308</i> is of type T308 . <i>T308</i> is optional.
T303	T303 Timer. Identifies time T303 used at Layer 3 for the TMC and defines the maximum length of time in milliseconds that the RDT will wait for a reply to a SETUP message. <i>T303</i> is of type T303 . <i>T303</i> is optional.
T396	T396 Timer. This parameter specifies the length of time in milliseconds that the RDT will wait for a reply to a SETUP message following the initial expiration of time T303. <i>T396</i> is of type T396 . <i>T396</i> is optional.
T397	T397 Timer. This parameter specifies the maximum length of time in seconds the RDT will wait for the IDT to acknowledge an INFORMATION message that indicated that a customer who had been generating a permanent signal has returned on-hook. <i>T397</i> is of type T397 . <i>T397</i> is optional.
EOCALARM	EOC Alarms. This parameter indicates which alarms are to be reported through the EOC interface. The EOC can report alarms for either the shelf IG, the entire network, or no alarms at all. <i>EOCALARM</i> is of type EOCALarmReport . <i>EOCALARM</i> is optional.
EOCUPSST	EOC Up Send Service States. When the EOC link is down, any service state changes are not reported to the switch. Some switches, such as the DMS100, do not audit the CRVs when the EOC link comes up, so the switch continues to have the incorrect service state. This can result in the switch thinking that a CRV is down so no traffic is able to be carried. When set to "Y", this parameter will send service state notifications for all provisioned CRVs when the EOC link comes up. <i>EOCUPSST</i> is of type BoolYN . <i>EOCUPSST</i> is optional.
FLOWTHROUGH	Flow through provisioning (also referred to as 'RDT provisioning'). This is a provisionable option that exists in a Class-5 switch which when enabled causes the switch to send provisioning messages over the EOC of a given GR303 interface group for the purposes of managing analogLineTerminations in the RDT. The switch will Create, Delete, Remove from Service, and audit each CRV in the RDT when this option is enabled. The RDT needs to be aware of how this option is set in the switch for the purposes of issuing service state notifications. If an analogLineTermination is not 'switch created' and flow through provisioning is enabled, then the RDT should not issue any service state notifications to the switch for that line. If flow through provisioning is disabled, then the RDT should always issue service state notifications for all lines. If FLOWTHROUGH does not appear in the output response, then the C7 is behaving equivalent to FLOWTHROUGH = N. <i>FLOWTHROUGH</i> is of type BoolYN . <i>FLOWTHROUGH</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N4-1-IG4::PRIOP=N3-2-MS,SECOP=N4-3-
MS,ACTVOP=SEC,SWTYPE=DMS,T308=2,
T303=700,T396=14700,T397=120,EOCALARM=SHELFIG,EOCUPSST=Y,FLOWTHROUGH=N"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-GR8

Name

RTRV-GR8: Retrieve GR8

Description

Category: TDM Services **Security:** Memory Admin - read

This command retrieves the attributes associated with the GR-8 Interface Group.

Defined by Calix.

Related Messages:

[ALW-Swdx-GR303](#)

[DLT-CRS-T0](#)

[DLT-GR8](#)

[DLT-T1TG](#)

[ED-GR8](#)

[ENT-GR303](#)

[ENT-IG-DS1](#)

[INH-Swdx-GR303](#)

[REPT ALM GR303](#)

[REPT EVT GR303](#)

[REPT SW GR303](#)

[RTRV-ALM-GR303](#)

[RTRV-COND-GR303](#)

[RTRV-CRS-T0](#)

[RTRV-DLSTAT-T1TG](#)

[RTRV-IG-DS1](#)

[SW-DX-GR303](#)

[ALW-Swdx-T1TG](#)

[DLT-GR303](#)

[DLT-IG-DS1](#)

[ED-GR303](#)

[ENT-CRS-T0](#)

[ENT-GR8](#)

[ENT-T1TG](#)

[INH-Swdx-T1TG](#)

[REPT ALM T1TG](#)

[REPT EVT T1TG](#)

[REPT SW T1TG](#)

[RTRV-ALM-T1TG](#)

[RTRV-COND-T1TG](#)

[RTRV-DLSTAT-GR303](#)

[RTRV-GR303](#)

[RTRV-T1TG](#)

[SW-DX-T1TG](#)

Input Format

RTRV-GR8 : [TID] : <SlotIgRngAid> : [CTAG] ;
--

Input Parameters

SlotIgRngAid GR8 Interface Group Access Identifier. The address of the GR-8 Interface Group being retrieved. *SlotIgRngAid* is the AID [SlotIgRngAid](#). *SlotIgRngAid* must not be null.

Input Example

```
RTRV-GR8:SYS1:N1-1-4-IG1:56;
```

Output Format

```
    SID DATE TIME
M    CTAG COMPLD
"<SlotIgAid>::IGMODE=<IGMODE>, [ SWTYPE=<SWTYPE> ] , ALMBITS=<ALMBITS> "
;"
```

Output Parameters

SlotIgAid GR8 Interface Group Access Identifier. The address of the GR-8 Interface Group retrieved. *SlotIgAid* is the AID [SlotIgAid](#).

IGMODE Interface Group MODE *IGMODE* is of type [IgMode](#).

SWTYPE Switch Type. *SWTYPE* is of type [SwitchType](#). *SWTYPE* is optional.

ALMBITS ALarM BITS *ALMBITS* is a Integer.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-1-4-IG1::IGMODE=MODE1, SWTYPE=5ESS, ALMBITS=16"
;"
```

Errors

This message generates all of the [Default Errors](#).

RTRV-H248

Name

RTRV-H248: Retrieve H248

Description

Category: VOIP **Security:** Memory Admin - read

This command retrieves the attributes associated with the H.248 Interface Group.

Defined by Calix.

Related Messages:[DLT-H248](#)[DLT-VSP](#)[ED-VSP](#)[ENT-IG-VSP](#)[REPT ALM H248](#)[RTRV-COND-H248](#)[RTRV-VSP](#)[DLT-IG-VSP](#)[ED-H248](#)[ENT-H248](#)[ENT-VSP](#)[RTRV-ALM-H248](#)[RTRV-IG-VSP](#)**Input Format**

RTRV-H248:[TID]:<IgAid>:[CTAG];

Input Parameters

IgAid Address of the H.248 IG being retrieved. *IgAid* is the AID [IgRngAid](#) and is listable and rangeable. *IgAid* must not be null.

Input Example

RTRV-H248:SYS:N3-2-IG1:235;

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<IgAid>:[ [ SWTYPE=<SWTYPE>, ][ MGIP=<MGIP>, ][ MG2IP=<MG2IP>, ][ MGUDP=<MGUDP>, ]
[ MGC1IP=<MGC1IP>, ][ MGC1UDP=<MGC1UDP>, ][ MGC1IKE=<MGC1IKE>, ]
[ MGC2IP=<MGC2IP>, ][ MGC2UDP=<MGC2UDP>, ][ MGC2IKE=<MGC2IKE>, ]

[ MGC2SWTYPE=<MGC2SWTYPE>, ][ MGC2ESA=<MGC2ESA>, ][ TERMPREFIX=<TERMPREFIX>, ]
[ TMAX=<TMAX>, ][ MWD=<MWD>, ][ EPHEMAUDITDELAY=<EPHEMAUDITDELAY>, ]
[ FIRSTDIGWAIT=<FIRSTDIGWAIT>, ][ LONGDIGWAIT=<LONGDIGWAIT>, ]
[ SHORDDIGWAIT=<SHORDDIGWAIT>, ][ LONGDIGDUR=<LONGDIGDUR>, ]

[ MINFLASH=<MINFLASH>, ][ MAXFLASH=<MAXFLASH>, ][ MAXACTCALLS=<MAXACTCALLS>, ]
[ RFC2833MODE=<RFC2833MODE> ] ] : [<PST>], [<SST>]
;
```

Output Parameters**IgAid**IG number within a shelf. *IgAid* is the AID [IgAid](#).**SWTYPE**

Switch TYPE The parameter indicate the type of switch which the H.248

interface group will be connected to. *SWTYPE* is of type [H248SwitchType](#). *SWTYPE* is optional.

MGIP	Media Gateway's IP address for control message transport. <i>MGIP</i> is the AID IpAid . <i>MGIP</i> is optional.
MG2IP	Secondary MGC IP address for control message transport. <i>MG2IP</i> is the AID IpAid . <i>MG2IP</i> is optional.
MGUDP	<i>MGUDP</i> is a Integer. <i>MGUDP</i> is optional.
MGC1IP	Primary Media Gateway Controller's IP address. <i>MGC1IP</i> is the AID IpAid . <i>MGC1IP</i> is optional.
MGC1UDP	<i>MGC1UDP</i> is a Integer. <i>MGC1UDP</i> is optional.
MGC1IKE	<i>MGC1IKE</i> is the AID IkeProfAidNone . <i>MGC1IKE</i> is optional.
MGC2IP	Secondary Media Gateway Controller's IP address. <i>MGC2IP</i> is the AID IpAid . <i>MGC2IP</i> is optional.
MGC2UDP	<i>MGC2UDP</i> is a Integer. <i>MGC2UDP</i> is optional.
MGC2IKE	<i>MGC2IKE</i> is the AID IkeProfAidNone . <i>MGC2IKE</i> is optional.
MGC2SWTYPE	Secondary MGC Switch Type. <i>MGC2SWTYPE</i> is of type H248SwitchType . <i>MGC2SWTYPE</i> is optional.
MGC2ESA	This parameter indicates whether the secondary MGC is ESA. <i>MGC2ESA</i> is of type BoolYN . <i>MGC2ESA</i> is optional.
TERMPREFIX	Prefix on Termination Ids. This is a string of up to 11 characters. <i>TERMPREFIX</i> is a String. <i>TERMPREFIX</i> is optional.
TMAX	Maximum delay in seconds between first transmission and final retransmission of a message before declaring a communication failure with the MGC. A value of 0 for TMAX disables the declaring of a MGC communication failure due to a message timeout, including a timeout waiting for a heartbeat message. <i>TMAX</i> is a Integer. <i>TMAX</i> is optional.
MWD	Maximum delay in seconds before announcing MG presence to MGC. <i>MWD</i> is a Integer. <i>MWD</i> is optional.
EPHEMAUDITDELAY	The number of seconds between repetitions of reporting of a stranded "ephemeral termination" (Network trunk). The value should be in the range 0-3600. The value 0 indicates that the audit is not to be performed. <i>EPHEMAUDITDELAY</i> is a Integer. <i>EPHEMAUDITDELAY</i> is optional.
FIRSTDIGWAIT	Default number of seconds to wait for the start of dialing. The valid range is 0-99 (0 disables the timer). <i>FIRSTDIGWAIT</i> is a Integer. <i>FIRSTDIGWAIT</i> is optional.
LONGDIGWAIT	Default value in seconds of the long inter-digit timer. The valid range is 1-99. <i>LONGDIGWAIT</i> is a Integer. <i>LONGDIGWAIT</i> is optional.
SHORTDIGWAIT	Default value in seconds of the short inter-digit timer. The valid range is 1-99. <i>SHORTDIGWAIT</i> is a Integer. <i>SHORTDIGWAIT</i> is optional.
LONGDIGDUR	Default minimum duration, in 100ms increments, of a long digit event. The valid range is 1-99. <i>LONGDIGDUR</i> is a Integer. <i>LONGDIGDUR</i> is optional.

MINFLASH	Default minimum on-hook duration (in milliseconds) for a flash. The value range is 100-4900. <i>MINFLASH</i> is a Integer. <i>MINFLASH</i> is optional.
MAXFLASH	Default maximum on-hook duration in milliseconds for a flash. The value range is 200-5000. <i>MAXFLASH</i> is a Integer. <i>MAXFLASH</i> is optional.
MAXACTCALLS	Maximum number of concurrent calls (up to 384) for this IG. <i>MAXACTCALLS</i> is a Integer. <i>MAXACTCALLS</i> is optional.
RFC2833MODE	If 'Y', the H248 IG will use the RFC-2833 protocol during call control. The setting of this parameter controls the interface to both the Primary and Secondary MGCs. <i>RFC2833MODE</i> is of type BoolYN . <i>RFC2833MODE</i> is optional.
PST	Primary service state, controls communication with the MGC. <i>PST</i> is of type PrimaryState . <i>PST</i> is optional.
SST	Indicates why the VSP is out of service. MA indicates that the MG has reported to its MGC that it has been forced out of service. <i>SST</i> is of type SecondaryState and is listable. <i>SST</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-2-
IG1::SWTYPE=CS2K,MGIP=172.22.90.101,MG2IP=172.22.110.87,MGUDP=2944,
    MGC1IP=68.100.3.99,MGC1UDP=2944,MGC1IKE=NONE,MGC2IP=68.100.4.99,
    MGC2UDP=2944,MGC2IKE=NONE,MGC2SWTYPE=CS2K,MGC2ESA=N,TERMPREFIX=TP,
    TMAX=30,MWD=30,EPHEMAUDITDELAY=0,FIRSTDIGWAIT=16,LONGDIGWAIT=16,
    SHORTDIGWAIT=5,LONGDIGDUR=1,MINFLASH=500,MAXFLASH=1500,MAXACTCALLS=255,
    RFC2833MODE=N:IS-NR,AINS"
;

```

Errors

This message generates all of the [Default Errors](#).

RTRV-HDR

Name

RTRV-HDR: Retrieve Header

Description

Category: System **Security:** Security User

This command requests that an NE simply reply with a normal response indicating COMPLD. The

information of interest in the reply is the reply itself, along with information that the NE has about itself, namely the System Identifier (SID), the date, and the time.

Defined in GR-833.

Related Messages:

ALW-STBY-UPGRD	DLT-ALM-SHELF
DLT-NODE	ED-DAT
ED-NODE	ED-SHELF
ED-SYS	ED-SYS-SECU
ENT-NODE	ENT-SHELF
INH-STBY-UPGRD	INIT-SYS
OPR-BAR	REPT ALM SHELF
REPT EVT MEM	REPT EVT SHELF
RTRV-ALM-SHELF	RTRV-BAR
RTRV-COND-SHELF	RTRV-NETYPE
RTRV-NODE	RTRV-SHELF
RTRV-SYS	RTRV-SYS-SECU

Input Format

```
RTRV-HDR:[TID]::[CTAG];
```

Input Example

```
RTRV-HDR:SYS3::100;
```

Output Format

```
      SID DATE TIME
M   CTAG COMPLD
    "
;
```

Output Parameters

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-HDSL

Name

RTRV-HDSL: Retrieve High bit rate Digital Subscriber Line

Description

Category: HDSL Facility **Security:** Memory Admin - read

Retrieves parameters associated with a HDSL port.

Defined in GR-199.

Related Messages:

[DLT-GOS-HDSL](#)

[ED-GOS-HDSL](#)

[ENT-GOS-HDSL](#)

[INIT-HDSL](#)

[OPR-LPBK-HDSL](#)

[REPT EVT HDSL](#)

[REPT RST HDSL](#)

[RMV-HDSL](#)

[RTRV-ALM-HDSL](#)

[RTRV-CSTAT-HDSL](#)

[RTRV-HTU](#)

[DLT-HDSL](#)

[ED-HDSL](#)

[ENT-HDSL](#)

[INIT-REG-HDSL](#)

[REPT ALM HDSL](#)

[REPT RMV HDSL](#)

[RLS-LPBK-HDSL](#)

[RST-HDSL](#)

[RTRV-COND-HDSL](#)

[RTRV-GOS-HDSL](#)

[RTRV-PM-HDSL](#)

Input Format

```
RTRV-HDSL:[TID]:<HdslAid>:[CTAG];
```

Input Parameters

HdslAid HDSL Port Access Identifier. The address of the HDSL port being retrieved. *HdslAid* is the AID [SixPortLuNtwkRngAid](#) and is listable and rangeable. *HdslAid* must not be null.

Input Example

```
RTRV-HDSL:SYS3:N3-4-3-2:55;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD
  "<HdslAid>:[ [ LINETYPE=<LINETYPE>, ][ T1MAP=<T1MAP>, ][ FMT=<FMT>, ]
[ TERM=<TERM>, ][ SNRTHR=<SNRTHR>, ][ ATTHR=<ATTHR>, ][ PWR=<PWR>, ][ GOS=<GOS>, ]
[ TMGMODE=<TMGMODE>, ][ IGDS1=<IGDS1>, ][ DESC=<DESC> ] ]:[ <PST> ], [ <SST> ] "
;
```

Output Parameters

- HdslAid** HDSL Port Access Identifier. The address of the HDSL port retrieved. *HdslAid* is the AID [SixPortLuAid](#).
- LINETYPE** HDSL Line Type: 2- or 4-wire mode. In 4-wire mode, two consecutive port addresses are required for one HDSL port. *LINETYPE* is of type [HdslLineType](#). *LINETYPE* is optional.
- T1MAP** MAPping of the payload signal. *T1MAP* is of type [T1MapHds1](#). *T1MAP* is optional.
- FMT** DS1 Format. This parameter indicates DS1 signal format. *FMT* is of type [FormatSignal](#). *FMT* is optional.
- TERM** TERMinal Unit Type *TERM* is of type [HdslTermType](#). *TERM* is optional.
- SNRTHR** Signal-to-Noise Margin Threshold (near-end), in dB. (0 == OFF) *SNRTHR* is of type [SnrTargetMargins](#). *SNRTHR* is optional.
- ATTHR** Loop Attenuation Threshold (near-end), in dB. (0 == OFF) *ATTHR* is of type [HdslLoopAttenThresh](#). *ATTHR* is optional.
- PWR** Line PoWeRing. This parameter indicates whether the line is to supply power. *PWR* is of type [T1Pwr](#). *PWR* is optional.
- GOS** Grade of Service Access Identifier. This is the HDSL Grade of Service which is to be applied to the port. *GOS* is the AID [GosAid](#). *GOS* is optional.
- TMGMODE** Timing Mode. This parameter indicates the timing source for the T1 port transmit signal. For T1MAP other than UNI or NNI, C7 will default TMGMODE to LOOP when FMT=UF, SOURCE otherwise. *TMGMODE* is of type [T1TimingMode](#). *TMGMODE* is optional.
- IGDS1** Interface Group DS1. This parameter indicates the DS1 Line Termination within a T1 interface group, with which this HDSL port is associated. *IGDS1* is the AID [IgDs1Aid](#). *IGDS1* is optional.
- DESC** DESCription. A user-settable description field, up to 31 characters. *DESC* is a String. *DESC* is optional.
- PST** Primary Service State. This parameter specifies the overall service condition. *PST* is of type [PrimaryState](#). *PST* is optional.
- SST** Secondary Service State. This parameter provides additional state information that is relevant. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

TID-000 98-06-20 14-30-00
M 001 COMPLD

```
"N3-4-3-
2::LINETYPE=2WIRE,T1MAP=NA,FMT=UF,TERM=COT,SNRTHR=6,ATTHR=50,
PWR=SINK,GOS=OFF,TMGMODE=LOOP,IGDS1=N3-3-IG3-
2,DESC=\\"DESCRIPTION\\":
OOS-AU,UEQ"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-HTU

Name

RTRV-HTU: Retrieve HTU

Description

Category: HDSL Facility **Security:** Memory Admin - read

This command requests the C7 to retrieve the attributes associated with an HDSL Terminal Unit. The terminal unit could be at the central office and/or the remote.

Defined by Calix.

Related Messages:

DLT-GOS-HDSL	DLT-HDSL
ED-GOS-HDSL	ED-HDSL
ENT-GOS-HDSL	ENT-HDSL
INIT-HDSL	INIT-REG-HDSL
OPR-LPBK-HDSL	REPT ALM HDSL
REPT EVT HDSL	REPT RMV HDSL
REPT RST HDSL	RLS-LPBK-HDSL
RMV-HDSL	RST-HDSL
RTRV-ALM-HDSL	RTRV-COND-HDSL
RTRV-CSTAT-HDSL	RTRV-GOS-HDSL
RTRV-HTU	RTRV-PM-HDSL

Input Format

```
RTRV-HTU:[TID]:<HtuAid>:[CTAG]:::<LOCN>;
```

Input Parameters

HtuAid HDSL Terminal Unit Access Identifier. The address of the HTU from where the data is retrieved. *HtuAid* is the AID [SixPortLuRngAid](#) and is listable and rangeable. *HtuAid* must not be null.

LOCN LOCatioN. Near or Far End. *LOCN* is of type [Location](#). *LOCN* must not be null.

Input Example

```
RTRV-HTU:SYS1:N4-3-3-2:123::FEND;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD

"<HtuAid>:[<LOCN>]:[ [TERM=<TERM>, ][VENDOR=<VENDOR>, ][MODEL=<MODEL>, ]
[VERSION=<VERSION>, ][SERIAL=<SERIAL>, ][CLEI=<CLEI>] ]"
;"
```

Output Parameters

HtuAid HDSL Terminal Unit Access Identifier. The address of the HTU from where the data is retrieved. *HtuAid* is the AID [SixPortLuAid](#).

LOCN LOCatioN. Near or Far End. *LOCN* is of type [Location](#). *LOCN* is optional.

TERM *TERM* is of type [HdslTermType](#). *TERM* is optional.

VENDOR Vendor Identifier. *VENDOR* is a String. *VENDOR* is optional.

MODEL Model Number. *MODEL* is a String. *MODEL* is optional.

VERSION Version Number. *VERSION* is a String. *VERSION* is optional.

SERIAL Serial Number. *SERIAL* is a String. *SERIAL* is optional.

CLEI Common Language Equipment Identifier. This parameter indicates the CLEI code of the HTU. *CLEI* is a String. *CLEI* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N4-3-3-
2:FEND:TERM=RT,VENDOR=VENDOR,MODEL=MODEL,VERSION=VERS,
SERIAL=SERIAL,CLEI=CLEI;"
```

Errors

This message generates all of the [Default Errors](#).

RTRV-IFCONFIG

Name

RTRV-IFCONFIG: Retrieve Interface Configuration

Description

Category: Management Interface

Security: System Administration

The command retrieves the attributes associated with the interface configuration.

Defined by Calix and modeled after RTRV-rr in GR-199.

Related Messages:

[ACT-CRS-OW](#)
[ED-IFCONFIG](#)
[ENT-CRS-OW](#)
[RTRV-SERIAL](#)

[DLT-CRS-OW](#)
[ED-SERIAL](#)
[RTRV-CRS-OW](#)

Input Format

```
RTRV-IFCONFIG:[TID]:<IfConfigAid>:[CTAG];
```

Input Parameters

IfConfigAid Interface Configuration Access Identifier. The address of an interface configuration which is being retrieved. *IfConfigAid* is the AID [IfConfigAid](#) and is listable. *IfConfigAid* must not be null.

Input Example

```
RTRV-IFCONFIG:SYS1:N4-3-MS-E2:345;
```

Output Format

SID	DATE	TIME
M	CTAG	COMPLD

```
"<IfConfigAid>::[ [CHAP=<CHAP>, ][IP=<IP>, ][IPMSK=<IPMSK>, ][GADDR=<GADDR>, ][MAC=<MAC>, ][ENCAP=<ENCAP>] ]"
;
```

Output Parameters

IfConfigAid	Interface Configuration Access Identifier. The address of an interface configuration which is being retrieved. <i>IfConfigAid</i> is the AID IfConfigAid .
CHAP	CHannel Access Privilege. This parameter identifies the access privileges for the ethernet port for which a user can establish a session. <i>CHAP</i> is of type CidSecurity . <i>CHAP</i> is optional.
IP	IP address. This parameter identifies the IP address used when accessing the ethernet port <i>IP</i> is the AID IpAid . <i>IP</i> is optional.
IPMSK	IP address mask. <i>IPMSK</i> is the AID IpAid . <i>IPMSK</i> is optional.
GADDR	Gateway address. The IP address of the gateway. <i>GADDR</i> is the AID IpAid . <i>GADDR</i> is optional.
MAC	MAC Address <i>MAC</i> is the AID MacAid . <i>MAC</i> is optional.
ENCAP	ATM Encapsulation Type. This parameter is applicable only for the Inband Management (E3) interface. <i>ENCAP</i> is of type E3EncapType . <i>ENCAP</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N4-3-MS-E2::CHAP=FULLACC,IP=192.168.1.0,IPMSK=255.255.255.0,
GADDR=154.233.45.1,MAC=00-02-5D-00-00-00,ENCAP=BRIDGED"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-IG

Name

RTRV-IG: Retrieve Interface Group

Description

Category: TDM Services **Security:** Memory Admin - read

This command provides a simple way to see what types of shelf-based Interface Groups have been defined on shelves in the system.

Input Format

```
RTRV-IG:[TID]:<IgAid>:[CTAG];
```

Input Parameters

IgAid Interface Group Id *IgAid* is the AID [IgRngAid](#) and is listable and rangeable. *IgAid* must not be null.

Input Example

```
RTRV-IG:SYS:N1-1-ALL:123;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<IgAid>::TYPE=<TYPE>"
;
```

Output Parameters

IgAid Interface Group Id *IgAid* is the AID [IgAid](#).

TYPE The Type of Interface Group. *TYPE* is of type [ShelfIgType](#).

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-1-IG1::TYPE=GR303"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-IG-CRV

Name

RTRV-IG-CRV: Retrieve Interface Group Call Reference Value

Description

Category: Deprecated **Security:** Memory Admin - read

This command retrieves the attributes associated with the Call Reference Value of a GR303 Interface Group.

Defined by Calix.

Related Messages:

[DLT-IG-CRV](#)

[ENT-IG-CRV](#)

Input Format

```
RTRV-IG-CRV:[TID]:<CrVAid>:[CTAG];
```

Input Parameters

CrVAid Call Reference Value Access Identifier. The address of the call reference value in a GR303 interface group which is being retrieved. *CrVAid* is the AID [CrVRngAid](#) and is listable and rangeable. *CrVAid* must not be null.

Input Example

```
RTRV-IG-CRV:SYS3:N3-1-IG3-3:342;
```

Output Format

```
    SID DATE TIME
M    CTAG COMPLD
    "<CrVAid>:[<PLOCN>]:[ [GSFN=<GSFN>,][ SWCREATED=<SWCREATED>,
        [ SWDELETED=<SWDELETED> ] :<PST>,[<SST> ]"
;
```

Output Parameters

CrVAid	Call Reference Value Access Identifier. The address of the call reference value in a GR303 interface group retrieved. <i>CrVAid</i> is the AID CrVAid .
PLOCN	Physical Location. This is the location of the subscriber port to which the CRV is cross connected. <i>PLOCN</i> is the AID TOCrVAid . <i>PLOCN</i> is optional.
GSFN	General Signaling Function. This indicate the type of signal which is allowed on the DS0 service. <i>GSFN</i> is of type GenSigFunction . <i>GSFN</i> is optional.
SWCREATED	SWitch CREATED. <i>SWCREATED</i> is of type BoolYN . <i>SWCREATED</i> is optional.
SWDELETED	SWitch DELETED. <i>SWDELETED</i> is of type BoolYN . <i>SWDELETED</i> is optional.
PST	Primary Service State. This parameter specifies the overall service condition of the CRV. <i>PST</i> is of type PrimaryState .
SST	Secondary Service State. This parameter provides additional state information that is

relevant to the call reference value. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-1-IG3-3:N3-4-6-12:GSFN=2LS,SWCREATED=Y,SWDELETED=N:IS-
NR,RDLID"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-IG-CSHELF

Name

RTRV-IG-CSHELF: Retrieve Interface Group Concentration Shelf

Description

Category: TDM Services **Security:** Memory Admin - read

Retrieve all POTS subscriber shelf associations for a given Interface Group.

Input Format

```
RTRV-IG-CSHELF:[TID]:<IgAid>:[CTAG]::[<SHELF>];
```

Input Parameters

IgAid The Interface Group AID. *IgAid* is the AID [IgRngAid](#). *IgAid* must not be null.

SHELF An associated shelf. If omitted, this is interpreted as "all associated shelves". *SHELF* is the AID [ShelfAid](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-IG-CSHELF:SYS1:N1-4-IG2:CTAG::N3-2;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD
"<IgAid>:[<SHELF>]:[ [ NVDS1=<NVDS1> , ][ CAPALMTHR=<CAPALMTHR> ] ] "
;
```

Output Parameters

IgAid	The Interface Group AID. <i>IgAid</i> is the AID IgAid .
SHELF	A subscriber shelf associated with the Interface Group. <i>SHELF</i> is the AID ShelfAid . <i>SHELF</i> is optional.
NVDS1	The number of Virtual DS1s allocated for this association. This determines the call capacity for the IG to the associated shelf. <i>NVDS1</i> is a Integer. <i>NVDS1</i> is optional.
CAPALMTHR	Call Capacity Alarm Threshold. If the number of active calls reaches or exceeds this percentage of total, an alarm is raised. <i>CAPALMTHR</i> is of type Percentage . <i>CAPALMTHR</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-4-IG2:N3-2:NVDS1=2,CAPALMTHR=80"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-IG-DS1

Name

RTRV-IG-DS1: Retrieve Interface Group Digital Signal 1

Description

Category: TDM Services **Security:** Memory Admin - read

This command retrieves the attributes associated with the DS1 Line Termination of a GR303 Interface Group.

Defined by Calix.

Related Messages:

ALW-Swdx-GR303	ALW-Swdx-T1TG
DLT-CRS-T0	DLT-GR303
DLT-GR8	DLT-IG-DS1
DLT-T1TG	ED-GR303
ED-GR8	ENT-CRS-T0
ENT-GR303	ENT-GR8
ENT-IG-DS1	ENT-T1TG
INH-Swdx-GR303	INH-Swdx-T1TG
REPT ALM GR303	REPT ALM T1TG
REPT EVT GR303	REPT EVT T1TG
REPT SW GR303	REPT SW T1TG
RTRV-ALM-GR303	RTRV-ALM-T1TG
RTRV-COND-GR303	RTRV-COND-T1TG
RTRV-CRS-T0	RTRV-DLSTAT-GR303
RTRV-DLSTAT-T1TG	RTRV-GR303
RTRV-GR8	RTRV-T1TG
SW-DX-GR303	SW-DX-T1TG

Input Format

```
RTRV-IG-DS1:[TID]:<IgDs1Aid>:[CTAG];
```

Input Parameters

IgDs1Aid Interface Group DS1 Access Identifier. The address of the DS1 Line Termination in a GR-303 interface group being retrieved. *IgDs1Aid* is the AID [IgDs1RngAid](#) and is listable and rangeable. *IgDs1Aid* must not be null.

Input Example

```
RTRV-IG-DS1:SYS3:N3-1-IG3-3:342;
```

Output Format

```
    SID DATE TIME
M    CTAG COMPLD
    "<IgDs1Aid>:[<PLOCN>]:[TDMBC==<TDMBC>]:[<PST>],[<SST>]"
;
```

Output Parameters

IgDs1Aid Interface Group DS1 Access Identifier. The address of the DS1 Line Termination in a GR-303 interface group retrieved. *IgDs1Aid* is the AID [IgDs1Aid](#).

PLOCN Physical Location. The physical location of the DS1 Line Termination within the C7 network. *PLOCN* is the AID [SixPortLuAid](#). *PLOCN* is optional.

TDMBWC TDM Bandwidth Constraint. This parameter returns "Y" if all TDM connections through this interface group are using the TDM Bandwidth Constraint Id. If any are not then "N" is returned. *TDMBWC* is of type [BoolYN](#). *TDMBWC* is optional.

PST Primary Service State. This parameter specifies the overall service condition of the DS1. *PST* is of type [PrimaryState](#). *PST* is optional.

SST Secondary Service State. This parameter provides additional state information that is relevant to the DS1. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-1-IG3-3:N3-4-5-6:TDMBWC=Y:OOS-AU,FLT"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-IG-VDS1

Name

RTRV-IG-VDS1: Retrieve Interface Group VDS1

Description

Category: TDM Services **Security:** Memory Admin - read

This command retrieves the attributes associated with the VDS1 Termination of a Voice Concentration Group.

Defined by Calix.

Related Messages:

[DLT-AVO](#)

[DLT-GOS-ONT](#)

[DLT-IG-VDS1](#)

[DLT-ONT](#)

[DLT-PROF-ONT](#)

[DLT-RFVID](#)

[DLT-VCG](#)

[DLT-VRP](#)

[ED-AVO](#)

[ED-GOS-ONT](#)

[ED-ONT](#)

[ED-PROF-ONT](#)

[ED-RFVID](#)

[ED-VCG](#)

ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV ONT	REPT RMV RFVID
REPT RST AVO	REPT RST ONT
REPT RST RFVID	RMV-AVO
RMV-ONT	RMV-RFVID
RST-AVQ	RST-ONT
RST-RFVID	RTRV-ALM-AVO
RTRV-ALM-ONT	RTRV-ALM-RFVID
RTRV-ALM-VCG	RTRV-ALM-VRP
RTRV-AVO	RTRV-COND-ONT
RTRV-COND-VCG	RTRV-COND-VRP
RTRV-GOS-ONT	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
RTRV-IG-VDS1:[TID]:<IgDs1Aid>:[CTAG];
```

Input Parameters

IgDs1Aid Interface Group DS1 Access Identifier. The address of the DS1 Line Termination in a VCG interface group being retrieved. *IgDs1Aid* is the AID [IgDs1RngAid](#) and is listable and rangeable. *IgDs1Aid* must not be null.

Input Example

```
RTRV-IG-VDS1:SYS:N1-2-IG3-1:342;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD
"<IgDs1Aid>:[<PLOCN>]:[TDMBWC=<TDMBWC>]"
;
```

Output Parameters

- IgDs1Aid** Interface Group DS1 Access Identifier. The address of the DS1 Line Termination in a VCG interface group being retrieved. *IgDs1Aid* is the AID [IgDs1Aid](#).
- PLOCN** The "physical location" of the virtual DS1 port associated with the IG. *PLOCN* is the AID [Vds1Aid](#). *PLOCN* is optional.
- TDMBW** TDM Bandwidth Constraint. This parameter returns "Y" if all TDM connections through this VCG are using the TDM Bandwidth Constraint Id. If any are not then "N" is returned. *TDMBW* is of type [BoolYN](#). *TDMBW* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-2-IG3-1:N1-2-7-V1:TDMBW=Y"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-IG-VSP

Name

RTRV-IG-VSP: Retrieve Interface Group Voice Signal Processor

Description

Category: TDM Services **Security:** Memory Admin - read

This command retrieves the attributes associated with the VSP Termination of a H.248 Interface Group.

Related Messages:

[DLT-H248](#)

[DLT-VSP](#)

[ED-VSP](#)

[ENT-IG-VSP](#)

[REPT ALM H248](#)

[RTRV-COND-H248](#)

[DLT-IG-VSP](#)

[ED-H248](#)

[ENT-H248](#)

[ENT-VSP](#)

[RTRV-ALM-H248](#)

[RTRV-H248](#)

RTRV-VSP

Input Format

```
RTRV-IG-VSP:[TID]:<IgVspAid>:[CTAG];
```

Input Parameters

IgVspAid The address of the VSP Termination in a VCG interface group being retrieved. *IgVspAid* is the AID [VspId](#) and is listable and rangeable. *IgVspAid* must not be null.

Input Example

```
RTRV-IG-VSP:SYS:N3-2-IG1-1:568;
```

Output Format

```
      SID DATE TIME
M      CTAG COMPLD
      "<IgVspAid>:[<PLOCN>]"
;
```

Output Parameters

IgVspAid The address of the VSP Termination in a VCG interface group being retrieved. *IgVspAid* is the AID [IgVspAid](#).

PLOCN The "physical location" of the virtual VSP port associated with the IG. *PLOCN* is the AID [VspPortAid](#). *PLOCN* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
      "N3-2-IG1-1:N3-2-7-1"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-IGMP

Name

RTRV-IGMP: RTRV IGMP

Description

Category: IP **Security:** Memory Admin - read

Retrieve Internet Group Management Protocol.

Related Messages:

DLT-CVIDREG	DLT-IGMP-JOIN
DLT-MACHOST	DLT-VB
DLT-VBPORT	DLT-VLAN-VBPORT
DLT-VR	DLT-VRPORT
ED-CVIDREG	ED-IGMP
ED-MACHOST	ED-VB
ED-VBPORT	ED-VLAN-VBPORT
ED-VR	ENT-CVIDREG
ENT-IGMP-JOIN	ENT-MACHOST
ENT-VB	ENT-VBPORT
ENT-VLAN-VBPORT	ENT-VR
ENT-VRPORT	REPT ALM VB
REPT ALM VR	REPT EVT VB
REPT EVT VR	RTRV-ALM-VB
RTRV-ALM-VR	RTRV-CVIDREG
RTRV-IGMP-JOIN	RTRV-MACHOST
RTRV-VB	RTRV-VBPORT
RTRV-VLAN-VBPORT	RTRV-VR
RTRV-VRPORT	

Input Format

```
RTRV-IGMP:[TID]:<IrcAid>:[CTAG];
```

Input Parameters

IrcAid IP Route processor Card Access IDentifier. *IrcAid* is the AID [SlotLuAid](#). *IrcAid* must not be null.

Input Example

```
RTRV-IGMP::N1-1-19:32;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<IrcAid>::[[QINT=<QINT>,][QRINT=<QRINT>],[SQINT=<SQINT>],[SQCNT=<SQCNT>,
[LMQINT=<LMQINT>],[LMQCNT=<LMQCN>],[CTLMODE=<CTLMODE>,
[MACFLTR=<MACFLTR>],[PROXY=<PROXY>],[DSLBDNA=<DSLBDNA>,
[CHLIMEXC=<CHLIMEXC>]]"
;
```

Output Parameters

IrcAid	IP Route processor Card Access IDentifier. <i>IrcAid</i> is the AID SlotLuAid .
QINT	Query Interval. The interval in seconds between General Queries sent by the requestor. Default 125 seconds <i>QINT</i> is a Integer. <i>QINT</i> is optional.
QRINT	Query Response Interval. The Max Response Time in milliseconds inserted into the periodic General <i>QRINT</i> is a Integer. <i>QRINT</i> is optional.
SQINT	Startup Query Interval. The interval in seconds between General Queries sent by a requestor on startup. <i>SQINT</i> is a Integer. <i>SQINT</i> is optional.
SQCNT	Startup Query Count. The number of Queries sent out on startup, separated by the Startup Query Interval. Default 2 <i>SQCNT</i> is a Integer. <i>SQCNT</i> is optional.
LMQINT	Last Member Query Interval. The Max Response Time in milliseconds inserted into Group-Specific Queries sent in response to Leave Group messages, and is also the amount of time between Group-Specific Query messages. <i>LMQINT</i> is a Integer. <i>LMQINT</i> is optional.
LMQCNT	Last Member Query Count. The number of Group-Specific Queries sent before the router assumes there are no local members. <i>LMQCNT</i> is a Integer. <i>LMQCNT</i> is optional.
CTLMODE	Control Mode. Determines how IGMP clients are expected to behave. 'Normal' for RFC 2336 support and 'Fast' supports the customized IGMP client, which requires each client to send reports and leaves [For the first release, it implies a deployment of similar STBs, in future release, can be overridden by a device level setting]. <i>CTLMODE</i> is of type IgmpCtlMode . <i>CTLMODE</i> is optional.
MACFLTR	MAC Filtering. Mac address filtering provides added security when set to TRUE. Extra checks validate the channel changers source MAC address. <i>MACFLTR</i> is of type BoolYN . <i>MACFLTR</i> is optional.
PROXY	Igmp PROXY Mode. IRC operates in IGMP Proxy Mode when set to TRUE by sending reports and leaves upstream to the video head end. When set to 'N', all multicast video channels are always flowing from the video head end. <i>PROXY</i> is of type BoolYN . <i>PROXY</i> is optional.
DSLBDNA	DSL Bandwidth Not Available. Counter for the number of DSL Bandwidth not available errors. <i>DSLBDNA</i> is a Integer. <i>DSLBDNA</i> is optional.
CHLIMEXC	Channel Limit Exceeded Errors. Counter for the number of channel limit exceeded errors. <i>CHLIMEXC</i> is a Integer. <i>CHLIMEXC</i> is optional.

Output Example

TID-000 98-06-20 14-30-00

```
M 001 COMPLD
"N1-1-
19::QINT=125 ,QRINT=100 ,SQINT=31 ,SQCNT=2 ,LMQINT=100 ,LMQCNT=1 ,
      CTLMODE=NORMAL ,MACFLTR=N ,PROXY=N ,DSLBDNA=5 ,CHLIMEXC=6 "
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-IGMP-JOIN

Name

RTRV-IGMP-JOIN: Retrieve IGMP JOIN

Description

Category: IP **Security:** Memory Admin - read

RTRV-IGMP-JOIN: retrieve the single VC used to aggregate all EPG channels for use by BPON OLT cards.

In this case the GE-2p must aggregate the specified EPG channels into a single VC for: -Transport to other C7 rings or - Delivery to the OLT cards on the same shelf as the GE-2p

This command is also used to retrieve the multicast traffic mapping to VB port(Packet Services).

Related Messages:

[DLT-CVIDREG](#)
[DLT-MACHOST](#)
[DLT-VBPORT](#)
[DLT-VR](#)
[ED-CVIDREG](#)
[ED-MACHOST](#)
[ED-VBPORT](#)
[ED-VR](#)
[ENT-IGMP-JOIN](#)
[ENT-VB](#)
[ENT-VLAN-VBPORT](#)
[ENT-VRPORT](#)
[REPT ALM VR](#)
[REPT EVT VR](#)

[DLT-IGMP-JOIN](#)
[DLT-VB](#)
[DLT-VLAN-VBPORT](#)
[DLT-VRPORT](#)
[ED-IGMP](#)
[ED-VB](#)
[ED-VLAN-VBPORT](#)
[ENT-CVIDREG](#)
[ENT-MACHOST](#)
[ENT-VBPORT](#)
[ENT-VR](#)
[REPT ALM VB](#)
[REPT EVT VB](#)
[RTRV-ALM-VB](#)

[RTRV-ALM-VR](#)
[RTRV-IGMP](#)
[RTRV-VB](#)
[RTRV-VLAN-VBPORT](#)
[RTRV-VRPORT](#)

[RTRV-CVIDREG](#)
[RTRV-MACHOST](#)
[RTRV-VBPORT](#)
[RTRV-VR](#)

Input Format

```
RTRV-IGMP-
JOIN:[TID]:<IP>:[CTAG]:::IRCAID=<IRCAID>,[L2IFAID=<L2IFAID>];
```

Input Parameters

- IP** IP address of the EPG channel or the Multicast IP address for video. *IP* is the AID [IpRngAid](#) and is listable. *IP* must not be null.
- IRCAID** *IRCAID* is the AID [SlotLuAid](#). *IRCAID* must not be null.
- L2IFAID** *L2IFAID* is the AID [JoinId](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-IGMP-JOIN:SYS1:192.168.1.1:CTAG:::IRCAID=N1-1-9,L2IFAID=N1-
2-VB1-3;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<IP>:::[ [ IRCAID=<IRCAID> , ] [ L2IFAID=<L2IFAID> , ] [ VP=<VP> , ] [ VC=<VC> ] ] "
; "
```

Output Parameters

- IP** IP address of the EPG channel *IP* is the AID [IpAid](#).
- IRCAID** IRCAid - address of the IRC slot *IRCAID* is the AID [SlotLuAid](#). *IRCAID* is optional.
- L2IFAID** *L2IFAID* is the AID [VbPortAid](#). *L2IFAID* is optional.
- VP** VP - VPI number of the single VC used to aggregate all the EPG channels. *VP* is of type [VPRange](#). *VP* is optional.
- VC** VCI number of the singel VC used to aggregate all the EPG channels. *VC* is of type [VCRange](#). *VC* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"192.168.1.1::IRCAID=N1-1-9,L2IFAID=N1-2-VB1-3,VP=0,VC=40"
;"
```

Errors

This message generates all of the [Default Errors](#).

RTRV-IMA

Name

RTRV-IMA: Retrieve IMA

Description

Category: IMA Group **Security:** Memory Admin - read

This command retrieves provisioning for an Inverse Multiplexing for ATM (IMA) Interface Group on the specified node.

Related Messages:

DLT-AP	DLT-AP-T1
DLT-GOS-AP	DLT-GOS-IMA
DLT-GOS-IMALINK	DLT-IMA
DLT-IMA-PORT	ED-AP
ED-GOS-AP	ED-GOS-IMA
ED-GOS-IMALINK	ED-IMA
ENT-AP	ENT-AP-T1
ENT-GOS-AP	ENT-GOS-IMA
ENT-GOS-IMALINK	ENT-IMA
ENT-IMA-PORT	INIT-REG-AP
INIT-REG-IMA	INIT-REG-IMALINK
REPT ALM AP	REPT ALM IMA
REPT ALM IMALINK	REPT EVT AP
REPT EVT IMA	REPT EVT IMALINK
REPT RMV AP	REPT RST AP
RMV-AP	RMV-IMA
RST-AP	RST-IMA
RTRV-ALM-AP	RTRV-ALM-IMA
RTRV-ALM-IMALINK	RTRV-AP
RTRV-COND-AP	RTRV-COND-IMA
RTRV-GOS-AP	RTRV-GOS-IMA

[RTRV-GOS-IMALINK](#)
[RTRV-PM-IMA](#)

[RTRV-PM-AP](#)
[RTRV-PM-IMALINK](#)

Input Format

```
RTRV-IMA:[TID]:<ImaAid>:[CTAG];
```

Input Parameters

ImaAid IMA AID. This is the address of the IMA Interface Group that is being created. The slot number of this AID must be that of the T1 lines which are to be included in the group. *ImaAid* is the AID [ImaRngAid](#) and is listable and rangeable. *ImaAid* must not be null.

Input Example

```
RTRV-IMA:SYS1:N3-4-1-IMA4:98;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD

"<ImaAid>::[[IMAMAP=<IMAMAP>,][MLINKS=<MLINKS>],[XDIFDLY=<XDIFDLY>,
[INH=<INH>,[FRMLEN=<FRMLEN>,[ALTV1_0=<ALTV1_0>,[EXT=<EXT>,
[PDOM=<PDOM>,[GOS=<GOS>,[LINKGOS=<LINKGOS>,[PYLDSCRM=<PYLDSCRM>,
[ATMMON=<ATMMON>,[TMGMODE=<TMGMODE>,[SYMMODE=<SYMMODE>,
[CLKMODE=<CLKMODE>,[PLOCN=<PLOCN>,[TXIMAGRPID=<TXIMAGRPID>,
[TXIMAGRVER=<TXIMAGRVER>,[RXIMAGRPID=<RXIMAGRPID>,
[RXIMAGRVER=<RXIMAGRVER>,[DESC=<DESC>]]:[<PST>],[<SST>]
;
```

Output Parameters

ImaAid	IMA AID. This is the address of the IMA Interface Group that is being created. The slot number of this AID must be that of the T1 lines which are to be included in the group. <i>ImaAid</i> is the AID ImaGrpAid .
IMAMAP	IMA MAPping. This parameter indicates how the internal fixed length packets are to be mapped at the IMA interface. <i>IMAMAP</i> is of type ImaMap . <i>IMAMAP</i> is optional.
MLINKS	Minimum links. Minimum number of links required to be Active for the IMA group to be in the Up state. <i>MLINKS</i> is of type ImaLinks . <i>MLINKS</i> is optional.
XDIFDLY	Maximum Differential Delay. The maximum number of milliseconds of differential delay among the links that will be tolerated. <i>XDIFDLY</i> is of type ImaDiffDelay . <i>XDIFDLY</i> is optional.
INH	Inhibited. Configures whether the group is allowed to become operational and carry ATM data. <i>INH</i> is of type BoolYN . <i>INH</i> is optional.
FRMLEN	Frame Length. The IMA frame length to be used by the IMA group. <i>FRMLEN</i> is of type ImaFrm . <i>FRMLEN</i> is optional.

ALTV1_0	Alternative V1.0. The C7 IMA interface uses the IMA version 1.1 specification as default to interoperate with other IMA interfaces, this is normally backward compatible with older v1.0 interfaces. However, there are recognized interoperability issues with some older IMA interfaces. This parameter enables/disables the IMA group to use the alternative v1.0 IMA specification that should avoid these interoperability problems. For example, the parameter should be set in a group that is interoperating with an older Cisco IMA interface. Please see Atm Forum: Inverse Multiplexing for ATM Specification Version 1.1(AF-PHY-0086.001) - Abstract for further details. <i>ALTV1_0</i> is of type BoolYN . <i>ALTV1_0</i> is optional.
EXT	External Interface. This indicates if the IMA group is an internal or external path in the network. The value should be set to "Y" when the group is an external interface. It should be set to "N" when the group is connected to other shelves within a network of C7s. This parameter is valid only if IMAMAP is NNI. Note that this parameter must be changed independently of others, ie. a separate ED-IMA command is required. <i>EXT</i> is of type BoolYN . <i>EXT</i> is optional.
PDOM	Protection DOMain. This is an integer that is used to associate a transport facility into a protection domain that is used for A to Z connection provisioning. The PDOM for each domain must be a unique non-zero integer. The value of 0 is reserved to indicate that the facility is not to be used for A to Z connections. <i>PDOM</i> is of type Pdom . <i>PDOM</i> is optional.
GOS	Grade of Service Access Identifier. This is the Grade of Service that is to be applied to the IMA group. <i>GOS</i> is the AID GosAid . <i>GOS</i> is optional.
LINKGOS	Link Grade of Service Access Identifier. This is the Grade of Service that is to be applied to the IMA links. <i>LINKGOS</i> is the AID GosAid . <i>LINKGOS</i> is optional.
PYLDSCRM	Payload Scrambling. This parameter is set to Y to enable the scrambling of ATM cells. A missing PYLDSCRM response parameter should be interpreted as "PYLDSCRM=Y". <i>PYLDSCRM</i> is of type BoolYN . <i>PYLDSCRM</i> is optional.
ATMMON	ATM Diagnostic Monitoring. This parameter is set to Y to enable ATM diagnostic monitoring on the STS path. If enabled, an ATM OAM loopback ping is injected on VP0-VC3 to verify point-to-point connectivity with the next line unit. It applies only to ATMNNI and ATMUNI interfaces. <i>ATMMON</i> is of type BoolYN . <i>ATMMON</i> is optional.
TMGMODE	Timing Mode. This parameter selects the timing source. A missing TMGMODE response parameter should be interpreted as "TMGMODE=SOURCE". <i>TMGMODE</i> is of type T1TimingMode . <i>TMGMODE</i> is optional.
SYMMODE	Symmetry Mode. The IMA protocol is defined to allow symmetric or asymmetric cell rate transfer over the IMA virtual link. Currently, the C7 is statically configured to operate in Symmetrical Configuration and Operation mode only. <i>SYMMODE</i> is of type ImaSymMode . <i>SYMMODE</i> is optional.
CLKMODE	Clock Mode. Specifies the transmit clock mode for an IMA group. Currently, the C7 is statically configured to only support the Common Transmit Clock mode. <i>CLKMODE</i> is of type ImaClkMode . <i>CLKMODE</i> is optional.
PLOCN	Physical LOCatioN of the port(s). This specifies a list of T1 port AIDs (separated by &s). <i>PLOCN</i> is a String. <i>PLOCN</i> is optional.
TXIMAGRIPID	Specifies the transmit IMA Group ID, a value between 1 and 255. <i>TXIMAGRIPID</i> is a Integer. <i>TXIMAGRIPID</i> is optional.

TXIMAGRVER	Specifies the transmitted IMA version. <i>TXIMAGRVER</i> is of type ImaVersion . <i>TXIMAGRVER</i> is optional.
RXIMAGRVID	Specifies the receive IMA Group ID, a value between 1 and 255. <i>RXIMAGRVID</i> is a Integer. <i>RXIMAGRVID</i> is optional.
RXIMAGRVER	Specifies the received IMA version. <i>RXIMAGRVER</i> is of type ImaVersion . <i>RXIMAGRVER</i> is optional.
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String. <i>DESC</i> is optional.
PST	Primary Service State. This parameter specifies the overall service condition of the IMA group. <i>PST</i> is of type PrimaryState . <i>PST</i> is optional.
SST	Secondary Service State. This parameter provides additional state information that is relevant. <i>SST</i> is of type SecondaryState and is listable. <i>SST</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-4-1-
IMA4::IMAMAP=UNI,MLINKS=1,XDIFDLY=25,INH=N,FRMLEN=128,ALTV1_0=Y,
EXT=N,PDOM=1,GOS=OFF,LINKGOS=OFF,PYLDSCRM=N,ATMMON=Y,TMGMODE=SOURCE,
SYMMODE=SYMCFGSYMOPR,CLKMODE=COMMON,PLOCN=N3-4-1-
5,TXIMAGRVID=1,
TXIMAGRVER=1.1,RXIMAGRVID=1,RXIMAGRVER=1.1,DESC=\DESCRIPTION\":OOS,
SB"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-IP-HOST

Name

RTRV-IP-HOST: Retrieve IP HOST

Description

Category: IP **Security:** Memory Admin - read

This command retrieves the list of IP hosts. This includes hosts that were statically provisioned, learned via DHCP relay or learned via ARP.

Defined by Calix.

Input Format

```
RTRV-IP-HOST:[TID]:<IP>:[CTAG]:::RTRAID=<RTRAID>, [[MAC=<MAC>, ]  
[L2IFAID=<L2IFAID>, ][VLAN=<VLAN>]];
```

Input Parameters

- IP** *IP* is the AID [IpRngAid](#). *IP* must not be null. *IP* can be set to "ALL".
- RTRAID** *RTRAID* is the AID [RouterAid](#). *RTRAID* must not be null.
- MAC** *MAC* is the AID [MacAid](#). A null value defaults to "ALL".
- L2IFAID** *L2IFAID* is the AID [HostId4](#). A null value defaults to "ALL".
- VLAN** *VLAN* is the AID [PacketVlanAid](#). A null value defaults to "ALL".

Input Example

```
RTRV-IP-HOST:SYS3:1.2.3.4:322:::RTRAID=N1-2-VR3,MAC=01-23-45-67-  
89-AB,  
L2IFAID=N2-1-3-22-CH0-VP1-VC111,VLAN=N2-1-VB1-VLAN3;
```

Output Format

```
SID DATE TIME  
M CTAG COMPLD  
"IP:[[MAC=<MAC>, ][RTRAID=<RTRAID>, ][L2IFAID=<L2IFAID>, ][VLAN=<VLAN>, ]  
[COMPLETE=<COMPLETE>, ][HOSTPROTO=<HOSTPROTO>, ][HOSTTYPE=<HOSTTYPE>, ]  
[IGMPTMOUT=<IGMPTMOUT>]]"  
;
```

Output Parameters

- IP** *IP* is the AID [IpAid](#).
- MAC** *MAC* is the AID [MacAid](#). *MAC* is optional.
- RTRAID** *RTRAID* is the AID [RouterAid](#). *RTRAID* is optional.
- L2IFAID** *L2IFAID* is the AID [HostId4](#). *L2IFAID* is optional.
- VLAN** *VLAN* is the AID [PacketVlanAid](#). *VLAN* is optional.
- COMPLETE** Complete. This indicates whether this host entry is complete. This is true when the host entry has properly bound to both a MAC address and VC. *COMPLETE* is of type [BoolYN](#). *COMPLETE* is optional.
- HOSTPROTO** Host Protocol. This parameter indicates the protocol by which the host was learned by the system. *HOSTPROTO* is of type [IpHostProto](#). *HOSTPROTO* is optional.
- HOSTTYPE** Identifies the equipment associated with an IP host. This parameter will indicate whether the system will allow channel-change requests from this host. *HOSTTYPE* is of type [IpHostEqptType](#). *HOSTTYPE* is optional.

IGMPTMOUT IGMP Timeout. A value of "Y" indicates that a STB had an IGMP report timeout which means that the STB did not respond to several queries for the channel that the IRC thinks it was watching. It could indicate some sort of outage or simply that the customer turned off their STB. This parameter does not apply for HOSTTYPE values other than STB. *IGMPTMOUT* is of type [BoolYN](#). *IGMPTMOUT* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"1.2.3.4::MAC=01-23-45-67-89-AB,RTRaid=N1-2-VR3,
L2IFaid=N2-1-3-22-CH0-VP1-VC111,VLAN=N2-1-VB1-
VLAN3,COMPLETE=Y,
HOSTPROTO=STATIC,HOSTTYPE=OTHER,IGMPTMOUT=N"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-IP-IF

Name

RTRV-IP-IF: Retrieve IP IF

Description

Category: IP **Security:** Memory Admin - read

Retrieve an IP InterFace.

Related Messages:

DLT-DHCP-OUI	DLT-IP-IF
DLT-IP-ROUTE	DLT-IPIF-PORT
DLT-SUBIF-BINDING	DLT-VID-CHAN
DLT-VID-IRCLOC	DLT-VID-SUB
DLT-VID-SVC	DLT-VODCLNT
DLT-VODDSTLU	DLT-VODFLOW
DLT-VODSRCLU	DLT-VODSVR
ED-ARP	ED-IPIF-PORT
ED-VID-CHAN	ED-VID-SUB
ED-VID-SVC	ED-VODDSTLU
ENT-DHCP-OUI	ENT-IP-IF

[ENT-IP-ROUTE](#)
[ENT-SUBIF-BINDING](#)
[ENT-VID-IRCLOC](#)
[ENT-VID-SVC](#)
[REPT EVT VODFLOW](#)
[RTRV-DHCP-LEASE](#)
[RTRV-IP-ROUTE](#)
[RTRV-SUBIF-BINDING](#)
[RTRV-VID-IRCLOC](#)
[RTRV-VID-SVC](#)
[RTRV-VODDSTLU](#)
[RTRV-VODSRCLU](#)

[ENT-IPIF-PORT](#)
[ENT-VID-CHAN](#)
[ENT-VID-SUB](#)
[ENT-VODDSTLU](#)
[RTRV-ARP](#)
[RTRV-DHCP-OUI](#)
[RTRV-IPIF-PORT](#)
[RTRV-VID-CHAN](#)
[RTRV-VID-SUB](#)
[RTRV-VODCLNT](#)
[RTRV-VODFLOW](#)
[RTRV-VODSVR](#)

Input Format

```
RTRV-IP-
IF:[TID]:<IP>:[CTAG]:::[[L2IFAID=<L2IFAID>,][RTRAID=<RTRAID>]];
```

Input Parameters

IP *IP* is the AID [IpRngAid](#). *IP* must not be null. *IP* can be set to "ALL".

L2IFAID *L2IFAID* is the AID [IpIfAid](#). A null value is equivalent to "ALL".

RTRAID *RTRAID* is the AID [RouterAid](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-IP-IF:SYS1:192.168.1.0:32:::L2IFAID=N1-1-19-PP1,RTRAID=N1-
1-VR1;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<IP>::IPMSK=<IPMSK>,[[L2IFAID=<L2IFAID>,][RTRAID=<RTRAID>]]"
;"
```

Output Parameters

IP *IP* is the AID [IpAid](#).

IPMSK *IPMSK* is the AID [IpAid](#).

L2IFAID *L2IFAID* is the AID [IpIfAid](#). *L2IFAID* is optional.

RTRAID *RTRAID* is the AID [RouterAid](#). *RTRAID* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"192.168.1.0::IPMSK=255.255.255.0,L2IFAID=N1-1-19-
PP1,RTRaid=N1-1-VR1"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-IP-ROUTE

Name

RTRV-IP-ROUTE: Retrieve IP ROUTE

Description

Category: IP **Security:** Memory Admin - read

Retrieve a Route.

Related Messages:

DLT-DHCP-OUI	DLT-IP-IF
DLT-IP-ROUTE	DLT-IPIF-PORT
DLT-SUBIF-BINDING	DLT-VID-CHAN
DLT-VID-IRCLOC	DLT-VID-SUB
DLT-VID-SVC	DLT-VODCLNT
DLT-VODDSTLU	DLT-VODFLOW
DLT-VODSRCLU	DLT-VODSVR
ED-ARP	ED-IPIF-PORT
ED-VID-CHAN	ED-VID-SUB
ED-VID-SVC	ED-VODDSTLU
ENT-DHCP-OUI	ENT-IP-IF
ENT-IP-ROUTE	ENT-IPIF-PORT
ENT-SUBIF-BINDING	ENT-VID-CHAN
ENT-VID-IRCLOC	ENT-VID-SUB
ENT-VID-SVC	ENT-VODDSTLU
REPT EVT VODFLOW	RTRV-ARP
RTRV-DHCP-LEASE	RTRV-DHCP-OUI
RTRV-IP-IF	RTRV-IPIF-PORT

[RTRV-SUBIF-BINDING](#)
[RTRV-VID-IRCLOC](#)
[RTRV-VID-SVC](#)
[RTRV-VODDSTLU](#)
[RTRV-VODSRCLU](#)

[RTRV-VID-CHAN](#)
[RTRV-VID-SUB](#)
[RTRV-VODCLNT](#)
[RTRV-VODFLOW](#)
[RTRV-VODSVR](#)

Input Format

```
RTRV-IP-ROUTE:[TID]:<IPMASK>:[CTAG]:::RTRAID=<RTRAID>;
```

Input Parameters

IPMASK *IPMASK* is the AID [IpMaskAid](#). *IPMASK* must not be null.

RTRAID *RTRAID* is the AID [RouteId](#). *RTRAID* must not be null.

Input Example

```
RTRV-IP-ROUTE:SYS1:192.168.1.0/24:32:::RTRAID=N1-1-VR1;;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<IPMASK>:::[RTRAID=<RTRAID>,][GADDR=<GADDR>,[STATIC=<STATIC>,
[METRIC=<METRIC>,[IF=<IF>]]"
;";
```

Output Parameters

IPMASK *IPMASK* is the AID [IpMaskAid](#).

RTRAID *RTRAID* is the AID [RouteId](#). *RTRAID* is optional.

GADDR Gateway ("next hop") host IP address. *GADDR* is the AID [IpAid](#). *GADDR* is optional.

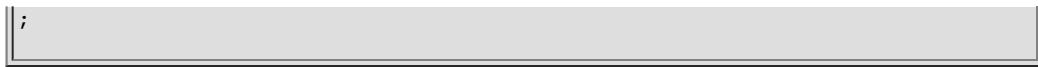
STATIC A flag that indicates whether or not this route has been statically provisioned. *STATIC* is of type [BoolYN](#). *STATIC* is optional.

METRIC The routing metric of the interface. The routing metric is used by the routing protocol. Higher metrics have the effect of making a route less favorable; metrics are counted as addition hops to the destination network or host. *METRIC* is a Integer. *METRIC* is optional.

IF The Interface Id (for AMP routes) *IF* is a String. *IF* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"192.168.1.0/24:::RTRAID=N1-1-
VR1,GADDR=154.233.45.1,STATIC=Y,METRIC=1,
IF=E1";
```



Errors

This message generates all of the [Default Errors](#).

RTRV-IPIF-PORT

Name

RTRV-IPIF-PORT: Retrieve IPIF PORT

Description

Category: IP **Security:** Memory Admin - read

Retrieve IPIF Port. This creates the association between a lower layer interface and an IP address.

Related Messages:

DLT-DHCP-OUI	DLT-IP-IF
DLT-IP-ROUTE	DLT-IPIF-PORT
DLT-SUBIF-BINDING	DLT-VID-CHAN
DLT-VID-IRCLOC	DLT-VID-SUB
DLT-VID-SVC	DLT-VODCLNT
DLT-VODDSTLU	DLT-VODFLOW
DLT-VODSRCLU	DLT-VODSVR
ED-ARP	ED-IPIF-PORT
ED-VID-CHAN	ED-VID-SUB
ED-VID-SVC	ED-VODDSTLU
ENT-DHCP-OUI	ENT-IP-IF
ENT-IP-ROUTE	ENT-IPIF-PORT
ENT-SUBIF-BINDING	ENT-VID-CHAN
ENT-VID-IRCLOC	ENT-VID-SUB
ENT-VID-SVC	ENT-VODDSTLU
REPT EVT VODFLOW	RTRV-ARP
RTRV-DHCP-LEASE	RTRV-DHCP-OUI
RTRV-IP-IF	RTRV-IP-ROUTE
RTRV-SUBIF-BINDING	RTRV-VID-CHAN
RTRV-VID-IRCLOC	RTRV-VID-SUB
RTRV-VID-SVC	RTRV-VODCLNT

[RTRV-VODDSTLU](#)
[RTRV-VODSRCLU](#)

[RTRV-VODFLOW](#)
[RTRV-VODSVR](#)

Input Format

```
RTRV-IPIF-
PORT:[TID]:<IP>:[CTAG]:::[INTERFACE=<INTERFACE>],RTRAID=<RTRAID>;
```

Input Parameters

IP IP Address *IP* is the AID [IpRngAid](#). *IP* must not be null.

INTERFACE Interface to create the association with the IP address. Examples of this interfaces are Virtual Bridge, Virtual Router VC Endpoint and VLAN. *INTERFACE* is the AID [IpIfPortAid](#). A null value defaults to "ALL".

RTRAID Router Access Identifier - Address of the Virtual Router. *RTRAID* is the AID [VrAid](#). *RTRAID* must not be null.

Input Example

```
RTRV-IPIF-PORT:SYS1:192.168.1.0:32:::INTERFACE=N1-1-VB1-VLAN5,
RTRAID=N1-1-VR1;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"[ <IP> ] :: [ [ INTERFACE=<INTERFACE> , ] [ RTRAID=<RTRAID> , ] [ DHCPIPIF=<DHCPIPIF> ] ]
";
;
```

Output Parameters

IP IP Address *IP* is the AID [IpAid](#). *IP* is optional.

INTERFACE Interface to create the association with the IP address. Examples of this interfaces are Virtual Bridge, Virtual Router VC Endpoint and VLAN. *INTERFACE* is the AID [IpIfPortAid](#). *INTERFACE* is optional.

RTRAID *RTRAID* is the AID [VrAid](#). *RTRAID* is optional.

DHCPIPIF Indicates that this IPIF-PORT's interface is used for relaying DHCP requests. For DHCP requests to be relayed, exactly one IP interface for a given layer-2 interface must have DHCPIPIF=Y. A given virtual bridge may have at most one IPIF-PORT, attached at the VB level, with the DHCPIPIF set to Y. Each VLAN, independent of the virtual bridge attachments, may also have at most one attached IP-Interface with DHCPIPIF set to Y. *DHCPIPIF* is of type [BoolYN](#). *DHCPIPIF* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "192.168.1.0::INTERFACE=N1-1-VB1-VLAN5 ,RTRAID=N1-1-
VR1 ,DHCPPIF=N"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-LINK

Name

RTRV-LINK: Retrieve Link

Description

Category: Management Interface

Security: System Administration

This command allows the user to retrieve the attributes of an internal communication path.

Defined by Calix.

Related Messages:

[DLT-CRS-DCC](#)

[ED-LINK](#)

[ENT-CRS-DCC](#)

[RTRV-CRS-DCC](#)

Input Format

```
RTRV-LINK:[TID]:<DataLinkAid>:[CTAG];
```

Input Parameters

DataLinkAid Data Link Access Identifier. The address of a Data Link within an internal interface within the C7 network which is being retrieved. *DataLinkAid* is the AID [DataLinkRngAid](#) and is listable and rangeable. *DataLinkAid* must not be null.

Input Example

```
RTRV-LINK:SYS3:N3-4-20-4:489;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD
  "<DataLinkAid>:<LINKTYPE>,<ICCVc>"
;
```

Output Parameters

DataLinkAid Data Link Access Identifier. The address of the port carrying the datalink. *DataLinkAid* is the AID [DataLinkAid](#).

LINKTYPE Link Type. This parameter indicates whether the Section Data Communication Channel (SDCC), Link Data Communications Channel (LDCC), or Internal Communication Channel (ICC) in a facility payload is being used to communicate with the other nodes in the system. *LINKTYPE* is of type [LinkType](#).

ICCVc Internal Communications Channel Virtual Circuit. When an Internal Communications Channel within a facility payload is used to carry the internal datalink, this parameter is used to specify the full address of the Virtual Circuit in the payload. *ICCVc* is the AID [VcId](#).

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
  "N3-4-20-4:ICC,N3-4-20-4-3-1-4095"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-LOG

Name

RTRV-LOG: Retrieve Log

Description

Category: Log **Security:** Maintenance - read

Retrieves the contents of an existing message log.

The Alarm Log holds 500 entries; all other logs hold 300 entries.

Defined in GR-833.

Related Messages:

[INIT-LOG](#)
[RTRV-COND-LOG](#)

[REPT EVT LOG](#)

Input Format

```
RTRV-LOG:[TID]:<LogAid>:[CTAG]::<LOGNM>;
```

Input Parameters

LogAid Log Access Identifier. The address of the log entry to be retrieved. The log index can be a maximum of 500 for the Alarm log, and 300 for other logs. *LogAid* is the AID [LogRngAid](#). *LogAid* must not be null.

LOGNM Log Name. The name of the log being retrieved. *LOGNM* is of type [LogName](#) and can be one of the following values: "ALM". *LOGNM* must not be null.

Input Example

```
RTRV-LOG:SYS3:N6-3-ALL:123::EVT;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<LOGNM>"
; 
```

Output Parameters

LOGNM Log Name. The name of the log being retrieved. *LOGNM* is of type [LogName](#)

This output will be followed by a comment line for each log entry. Log information will be conveyed as follows:

All log entries will be start with:

```
/*
<LogAid>,<OPER>,<AID>,[<SECAID>],<AIDTYPE>,<OCRDAT>,<OCRTM>:...*/
```

Where:

LogAid Log Access Identifier. The address of the log entry to be retrieved. *LogAid* is the AID [LogAid](#). *LogAid* must not be null.

TYPE Log Entry Type. The type of this log entry. *TYPE* is of type [LogEntryType](#). *TYPE* must not be null.

AID	Access Identifier. The address of object this log entry applies to. <i>AID</i> can be any AID supported by the C7. <i>AID</i> must not be null.
SECAID	Secondary Access Identifier. The secondary address of the object this log entry applies to. This will appear for entries that have more than one AID, e.g. cross-connects or FFPs. <i>SECAID</i> can be any AID supported by the C7. <i>SECAID</i> is optional.
AIDTYPE	Access Identifier Type. This parameter identifies the type of entity referenced by the log entry. <i>AIDTYPE</i> is of type AIDType . <i>AIDTYPE</i> is optional.
OCRDAT	Occurrence Date. This parameter identifies the date when the specific event occurred. Date MM-DD. <i>OCRDAT</i> is a Date. <i>OCRDAT</i> is optional.
OCRTM	Occurrence Time. This parameter identifies the time when the specific event occurred. Time HH-MM-SS. <i>OCRTM</i> is a Time. <i>OCRTM</i> is optional.

Depending on the log type, the following parameters will appear as names parameters where appropriate:

NTFCNCDE	Notification Code. This parameter indicates the notification code associated with the alarm condition. <i>NTFCNCDE</i> is of type NotificationAlm or NotificationConds . <i>NTFCNCDE</i> is optional.
CONDTYPE	Condition Type. This parameter identifies the condition type of the alarm. Where a condition type is a trouble conditions, irregularity or error conditions respectively. <i>CONDTYPE</i> is of type CondTypeAll . <i>CONDTYPE</i> is optional.
CONDEFF	Condition Effect. This parameter indicates the effect of the event on the C7. <i>CONDEFF</i> is of type ConditionEffect . <i>CONDEFF</i> is optional.
SRVEFF	Service Effect. This parameter identifies the effect on service caused by the alarm condition. <i>SRVEFF</i> is of type ServiceEffect . <i>SRVEFF</i> is optional.
LOCN	Location. This parameter identifies the location associated with a particular alarm. <i>LOCN</i> is of type Location . <i>LOCN</i> is optional.
ALMTYPE	Alarm Type. This parameter identifies the condition type for an environmental alarm. <i>ALMTYPE</i> is of type CondTypeEnvAlm .
MSG	Message. This parameter is a textual description of the log entry. <i>MSG</i> is a String. <i>MSG</i> is optional.
MONVAL	Monitored Value. This parameter is the measured value of a monitored parameter, which resulted in the threshold for a monitored parameter exceeding the defined or specified threshold level. <i>MONVAL</i> is a Integer. <i>MONVAL</i> is optional.
THLEV	Threshold Level. This parameter is the threshold level for the monitored parameter. <i>THLEV</i> is a Integer. <i>THLEV</i> is optional.
TMPER	Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. <i>TMPER</i> is of type PMPPeriod . <i>TMPER</i> is optional.
OBSDBHVR	Observed Behavior. This parameter indicates the observed behavior which caused a trouble condition to be reported. <i>UID</i> is a String. <i>UID</i> is optional.

UID	User Identifier. The user that entered the command triggering this log. <i>UID</i> is a String. <i>UID</i> is optional.
MSAID	Management/Maintenance Slot. This indicates the slot from which the operation was initiated. <i>MSAID</i> is of type MsAid . <i>MSAID</i> is optional. <i>LOGNM</i> is of type LogName .

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"EVT"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-LSWITCH

Name

RTRV-LSWITCH: RTRV LSWITCH

Description

Category: Ethernet **Security:** Memory Admin - read

This command retrieves a Logical Switch.

Related Messages:

[DLT-AGG](#)
[DLT-AGG-PORT](#)
[DLT-ETH-ACL](#)
[DLT-LSWITCH](#)
[DLT-PROF-ETH](#)
[DLT-VLAN-PORT](#)
[ED-ETH](#)
[ED-VLAN](#)
[ED-VLAN-VBPORT](#)
[ENT-AGG-ACL](#)
[ENT-ETH](#)
[ENT-GOS-ETH](#)

[DLT-AGG-ACL](#)
[DLT-ETH](#)
[DLT-GOS-ETH](#)
[DLT-LSWITCH-PORT](#)
[DLT-VLAN](#)
[DLT-VLAN-VBPORT](#)
[ED-GOS-ETH](#)
[ED-VLAN-PORT](#)
[ENT-AGG](#)
[ENT-AGG-PORT](#)
[ENT-ETH-ACL](#)
[ENT-LSWITCH](#)

ENT-LSWITCH-PORT	ENT-PROF-ETH
ENT-VLAN	ENT-VLAN-PORT
ENT-VLAN-VBPORT	INIT-LSWITCH
INIT-STAT-ETH	REPT ALM ETH
REPT EVT ETH	REPT RMV ETH
REPT RST ETH	RMV-ETH
RST-ETH	RTRV-AGG
RTRV-AGG-ACL	RTRV-AGG-PORT
RTRV-ALM-ETH	RTRV-COND-ETH
RTRV-ETH	RTRV-ETH-ACL
RTRV-GOS-ETH	RTRV-LSWITCH-PORT
RTRV-PM-ETH	RTRV-PROF-ETH
RTRV-STAT-ETH	RTRV-VLAN
RTRV-VLAN-PORT	RTRV-VLAN-VBPORT

Input Format

```
RTRV-LSWITCH:[TID]:<LSwitchAid>:[CTAG];
```

Input Parameters

LSwitchAid Logical Switch Access Identifier. *LSwitchAid* is the AID [LSwitchRngAid](#) and is listable and rangeable. *LSwitchAid* must not be null.

Input Example

```
RTRV-LSWITCH:SYS1:N1-2-XLAN10:345;
```

Output Format

```
M SID DATE TIME
M CTAG COMPLD
" <LSwitchAid> "
;
```

Output Parameters

LSwitchAid Logical Switch Access Identifier. *LSwitchAid* is the AID [LSwitchAid](#).

Output Example

```
M TID-000 98-06-20 14-30-00
M 001 COMPLD
" N1-2-XLAN10 "
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-LSWITCH-PORT

Name

RTRV-LSWITCH-PORT: Retrieve Logical Switch Port

Description

Category: Ethernet **Security:** Memory Admin - read

This command retrieves a port on a Logical Switch and it's associated mapping.

Related Messages:

DLT-AGG	DLT-AGG-ACL
DLT-AGG-PORT	DLT-ETH
DLT-ETH-ACL	DLT-GOS-ETH
DLT-LSWITCH	DLT-LSWITCH-PORT
DLT-PROF-ETH	DLT-VLAN
DLT-VLAN-PORT	DLT-VLAN-VBPORT
ED-ETH	ED-GOS-ETH
ED-VLAN	ED-VLAN-PORT
ED-VLAN-VBPORT	ENT-AGG
ENT-AGG-ACL	ENT-AGG-PORT
ENT-ETH	ENT-ETH-ACL
ENT-GOS-ETH	ENT-LSWITCH
ENT-LSWITCH-PORT	ENT-PROF-ETH
ENT-VLAN	ENT-VLAN-PORT
ENT-VLAN-VBPORT	INIT-LSWITCH
INIT-STAT-ETH	REPT ALM ETH
REPT EVT ETH	REPT RMV ETH
REPT RST ETH	RMV-ETH
RST-ETH	RTRV-AGG
RTRV-AGG-ACL	RTRV-AGG-PORT
RTRV-ALM-ETH	RTRV-COND-ETH
RTRV-ETH	RTRV-ETH-ACL
RTRV-GOS-ETH	RTRV-LSWITCH

[RTRV-PM-ETH](#)
[RTRV-STAT-ETH](#)
[RTRV-VLAN-PORT](#)

[RTRV-PROF-ETH](#)
[RTRV-VLAN](#)
[RTRV-VLAN-VBPORT](#)

Input Format

```
RTRV-LSWITCH-PORT:[TID]:<LSwitchPortAid>:[CTAG];
```

Input Parameters

LSwitchPortAid Logical Switch Port Access Identifier. *LSwitchPortAid* is the AID [LSwitchPortRngAid](#) and is listable and rangeable. *LSwitchPortAid* must not be null.

Input Example

```
RTRV-LSWITCH-PORT:SYS1:N1-2-XLAN10-50:345;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<LSwitchPortAid>:<PLOCN>"
;
```

Output Parameters

LSwitchPortAid Logical Switch Port Access Identifier. *LSwitchPortAid* is the AID [LSwitchPortAid](#).

PLOCN Physical LOCatioN of the port. This specifies the location of the Logical Bridge port. *PLOCN* is the AID [EthVtiAggPortAid](#).

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-2-XLAN10-50:N1-1-1-1"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-MACHOST

Name

RTRV-MACHOST: Retrieve MACHOST

Description

Category: IP **Security:** Memory Admin - read

Not supported in release 6.0.

Related Messages:

DLT-CVIDREG	DLT-IGMP-JOIN
DLT-MACHOST	DLT-VB
DLT-VBPORT	DLT-VLAN-VBPORT
DLT-VR	DLT-VRPORT
ED-CVIDREG	ED-IGMP
ED-MACHOST	ED-VB
ED-VBPORT	ED-VLAN-VBPORT
ED-VR	ENT-CVIDREG
ENT-IGMP-JOIN	ENT-MACHOST
ENT-VB	ENT-VBPORT
ENT-VLAN-VBPORT	ENT-VR
ENT-VRPORT	REPT ALM VB
REPT ALM VR	REPT EVT VB
REPT EVT VR	RTRV-ALM-VB
RTRV-ALM-VR	RTRV-CVIDREG
RTRV-IGMP	RTRV-IGMP-JOIN
RTRV-VB	RTRV-VBPORT
RTRV-VLAN-VBPORT	RTRV-VR
RTRV-VRPORT	

Input Format

```
RTRV-
MACHOST: [ TID ] : <MACAID> : [ CTAG ] :: : VLAN=<VLAN>, [ [ L2IFAID=<L2IFAID>, ]
[ STATIC=<STATIC> ] ] ;
```

Input Parameters

MACAID *MACAID* is the AID [MacRngAid](#) and is listable. *MACAID* must not be null.

VLAN *VLAN* is the AID [PacketVlanAid](#). *VLAN* must not be null.

L2IFAID *L2IFAID* is the AID [VbPortAid](#). A null value is equivalent to "ALL".

STATIC *STATIC* is of type [BoolYN](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-MACHOST:SYS:01-23-45-67-89-AB:123:::VLAN=N2-1-VB3-VLAN5,
L2IFAID=N2-1-VB3-5,STATIC=Y;
```

Output Format

```
    SID DATE TIME
M    CTAG COMPLD
    "<MACAID>::VLAN=<VLAN>,L2IFAID=<L2IFAID>,STATIC=<STATIC>"
;
```

Output Parameters

MACAID *MACAID* is the AID [MacAid](#).

VLAN *VLAN* is the AID [PacketVlanAid](#).

L2IFAID *L2IFAID* is the AID [VbPortAid](#).

STATIC *STATIC* is of type [BoolYN](#).

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
    "01-23-45-67-89-AB::VLAN=N2-1-VB3-VLAN5,L2IFAID=N2-1-VB3-
5,STATIC=Y"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-NETYPE

Name

RTRV-NETYPE: Retrieve Network Element Type

Description

Category: System **Security:** Memory Admin - read

Instructs the NE to retrieve its equipment-related information.

Related Messages:

[ALW-STBY-UPGRD](#)

[DLT-NODE](#)

[ED-NODE](#)

[ED-SYS](#)

[ENT-NODE](#)

[INH-STBY-UPGRD](#)

[OPR-BAR](#)

[REPT EVT MEM](#)

[RTRV-ALM-SHELF](#)

[RTRV-COND-SHELF](#)

[RTRV-NODE](#)

[RTRV-SYS](#)

[DLT-ALM-SHELF](#)

[ED-DAT](#)

[ED-SHELF](#)

[ED-SYS-SECU](#)

[ENT-SHELF](#)

[INIT-SYS](#)

[REPT ALM SHELF](#)

[REPT EVT SHELF](#)

[RTRV-BAR](#)

[RTRV-HDR](#)

[RTRV-SHELF](#)

[RTRV-SYS-SECU](#)

Input Format

```
RTRV-NETYPE:[TID]::[CTAG];
```

Input Example

```
RTRV-NETYPE:SYS1::555;
```

Output Format

```
    SID DATE TIME
M   CTAG COMPLD
    "<VENDOR>, <MODEL>, <NETYPE>, <SWISSUE>"
;
```

Output Parameters

VENDOR Equipment Vendor. This parameter identifies the equipment vendor's name. Syntax is alphanumeric with a maximum of 40 characters. *VENDOR* is a String.

MODEL Equipment Model. This parameter identifies the equipment model name. Syntax is alphanumeric with a maximum of 40 characters. *MODEL* is a String.

NETYPE NE Type. This parameter indicates the type of equipment. Alphanumeric string of up to 40 characters. *NETYPE* is of type [NEType](#).

SWISSUE Software Issue. This parameter identifies the C7 network's overall software release. *SWISSUE* is a String.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
    "CALIX,C7,OSTP,1.0.0"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-NODE

Name

RTRV-NODE: Retrieve NODE

Description

Category: System **Security:** Memory Admin - read

This command retrieves the System ID (SID) and Local AMP associated with the specified node.

Defined by Calix.

Related Messages:

ALW-STBY-UPGRD	DLT-ALM-SHELF
DLT-NODE	ED-DAT
ED-NODE	ED-SHELF
ED-SYS	ED-SYS-SECU
ENT-NODE	ENT-SHELF
INH-STBY-UPGRD	INIT-SYS
OPR-BAR	REPT ALM SHELF
REPT EVT MEM	REPT EVT SHELF
RTRV-ALM-SHELF	RTRV-BAR
RTRV-COND-SHELF	RTRV-HDR
RTRV-NETYPE	RTRV-SHELF
RTRV-SYS	RTRV-SYS-SECU

Input Format

RTRV-NODE : [TID] : <NodeAid> : [CTAG] ;
--

Input Parameters

NodeAid Node Access Identifier. The node identifier used to identify the node. *NodeAid* is the AID

[NodeId](#) and is listable and rangeable. *NodeAid* must not be null. *NodeAid* can be set to "ALL".

Input Example

```
RTRV-NODE::N4:34;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD

"<NodeAid>:<SID>:[ [ NODEAMP=<NODEAMP> , ] [ ALMCONT=<ALMCONT> , ] [ MOUNT=<MOUNT> , ]
    [ LAT=<LAT> , ] [ LONG=<LONG> ] ] "
;"
```

Output Parameters

- NodeAid** Node Access Identifier. The node identifier of the node retrieved. *NodeAid* is the AID [NodeAid](#).
- SID** System identification code (SID). This is the SID assigned to the the node. It is the SID which will be used to identify the node in the TID field of any subsequent TL1 commands issued by TL1 users who do not specify a Node Number in their AIDs. *SID* is a String.
- NODEAMP** Node AMP. This is the AID of the AMP or ATP which is to report alarms for all shelves within the node. It must be in a shelf within the node. *NODEAMP* is the AID [MsNoneAid](#). *NODEAMP* is optional.
- ALMCONT** ALarM CONTact. This parameter determines whether alarm contacts can be scoped to reflect just the node or can be scoped report for the network. *ALMCONT* is of type [AlarmContact](#). *ALMCONT* is optional.
- MOUNT** Mount Type. This describes how the Node of C7's is mounted, such as a Rack or Outdoor Cabinet. *MOUNT* is of type [MountType](#). *MOUNT* is optional.
- LAT** Latitude. This is the Latitude in real world coordinates. *LAT* is a Integer. *LAT* is optional.
- LONG** Longitude. This is the Longitude in real world coordinates. *LONG* is a Integer. *LONG* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N4:\PETALUMA\" :NODEAMP=N4-
1, ALMCONT=NODE, MOUNT=RACK, LAT=5, LONG=10"
;"
```

Errors

This message generates all of the [Default Errors](#).

RTRV-NTWK-CNFG

Name

RTRV-NTWK-CNFG: Retrieve Network Configuration

Description

Category: System **Security:** Memory Admin - read

This command retrieves the network configuration which describes the topology of the network.

Defined by Calix.

Input Format

```
RTRV-NTWK-CNFG: [ TID ] :: [ CTAG ] ;
```

Input Example

```
RTRV-NTWK-CNFG:SYS3::333;
```

Output Format

```
      SID DATE TIME
M  CTAG COMPLD
  "<SID1>,<SID2>,<BpId1>,<BpId2>:<Sid1Port>,<Sid2Port>"
;
```

Output Parameters

SID1 System Identifier 1. The system identifier of the system 1 which is connected to system 2. *SID1* is a String.

SID2 System Identifier 2. The system identifier of the system 2 which is connected to system 1. *SID2* is a String.

BpId1 Backplane Id 1. The backplane identifier of the shelf in system 1 which is connected to system 2. *BpId1* is a String.

BpId2 Backplane Id 2. The backplane identifier of the shelf in system 2 which is connected to system 1. *BpId2* is a String.

Sid1Port System 1 Port Access Identifier. The address of the port which is connecting system 1 to system 2. *Sid1Port* is the AID [DatalinkShelfAid](#).

Sid2Port System 2 Port Access Identifier. The address of the port which is connecting system 2 to system 1. *Sid2Port* is the AID [DataLinkAid](#).

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
; "PETALUMA,SANTA ROSA,30096,3009A:N6-3-4-3,N8-2-3-1"
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ONT

Name

RTRV-ONT: Retrieve Optical Network Termination

Description

Category: PON **Security:** Memory Admin - read

This command retrieves parameters associated with an ONT.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV ONT	REPT RMV RFVID

REPT RST AVO	REPT RST ONT
REPT RST RFVID	RMV-AVO
RMV-ONT	RMV-RFVID
RST-AVO	RST-ONT
RST-RFVID	RTRV-ALM-AVO
RTRV-ALM-ONT	RTRV-ALM-RFVID
RTRV-ALM-VCG	RTRV-ALM-VRP
RTRV-AVO	RTRV-COND-ONT
RTRV-COND-VCG	RTRV-COND-VRP
RTRV-GOS-ONT	RTRV-IG-VDS1
RTRV-ONT-UA	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
RTRV-
ONT:[ TID ]:<OntAid>:[ CTAG ]:::[ REGID=<REGID> , ] [ ONTPROF=<ONTPROF> ] ;
```

Input Parameters

- OntAid** Optical Network Termination Access ID. *OntAid* is the AID [OntNtwkRngAid](#) and is listable and rangeable. *OntAid* must not be null.
- REGID** If specified, only retrieve ONTs with the given REGID(s). *REGID* is a String and is listable. A null value is equivalent to "ALL".
- ONTPROF** If specified, only retrieve ONTs with the given ONTPROF(s). *ONTPROF* is the AID [OntId2](#) and is listable. A null value is equivalent to "ALL".

Input Example

```
RTRV-ONT:SYS:N2-3-12-1-22:567:::REGID=7077663000,ONTPROF=ONT712;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
" <OntAid>::[ [ ONTNUM=<ONTNUM> , ] [ REGID=<REGID> , ] [ ONTPROF=<ONTPROF> , ]
[VCG=<VCG> , ] [ VENDOR=<VENDOR> , ] [ PCODE=<PCODE> , ] [ VERSION=<VERSION> , ]
[CLEI=<CLEI> , ] [ SWVER=<SWVER> , ] [ BATPROV=<BATPROV> , ] [ BATSTAT=<BATSTAT> , ]
[ SECURITY=<SECURITY> , ] [ ONTPID=<ONTPID> , ] [ RNGLEN=<RNGLEN> , ]
[ SDBER=<SDBER> , ] [ MANCODE=<MANCODE> , ] [ GOS=<GOS> , ] [ DESC=<DESC> ] ] : [ <PST> ]
, [ <SST> ] "
;
```

Output Parameters

OntAid	Optical Network Termination Access ID. <i>OntAid</i> is the AID OntAid .
ONTNUM	The Ont Number for the ONT. This can be physical serial number of the unit or an assigned number programmed into the ONT. This number should be in hexadecimal format. <i>ONTNUM</i> is a String. <i>ONTNUM</i> is optional.
REGID	Registration Id. This is a string of up to 10 digits ('0' through '9'), that can be used instead of ONTNUM for remote ONT registration. When an ONT has been ranged and associated with a matching REGID in the database, the ONTNUM will be automatically recorded in the C7 database and service to the ONT enabled. <i>REGID</i> is a String. <i>REGID</i> is optional.
ONTPROF	The ONT Profile that describes the capabilities of the ONT. <i>ONTPROF</i> is the AID OntId2 . <i>ONTPROF</i> is optional.
VCG	The Voice Concentration Group used to support T0 cross-connects from this ONT. VCG is the AID VgAid . VCG is optional.
VENDOR	This parameter is a string up to 4 characters long that identifies the ONT Vendor. <i>VENDOR</i> is a String. <i>VENDOR</i> is optional.
PCODE	The Produce Code is a two character identifier assigned by the ONT Vendor. <i>PCODE</i> is a String. <i>PCODE</i> is optional.
VERSION	This is the Version string, up to 14 characters long, assigned to the ONT by the ONT vendor. <i>VERSION</i> is a String. <i>VERSION</i> is optional.
CLEI	This parameter indicates the CLEI code of the ONT. It is a string up to 20 characters long. <i>CLEI</i> is a String. <i>CLEI</i> is optional.
SWVER	This parameter indicates the Software version in use on the ONT. SWVER is up to 14 characters long. <i>SWVER</i> is a String. <i>SWVER</i> is optional.
BATPROV	This parameter indicates the expected Battery Backup capability. <i>BATPROV</i> is of type BoolYN . <i>BATPROV</i> is optional.
BATSTAT	This parameter indicates the Battery Backup status of the ONT. <i>BATSTAT</i> is of type OntBatteryStatus . <i>BATSTAT</i> is optional.
SECURITY	This parameter indicates the security that is in use for the ONT. <i>SECURITY</i> is of type OntSecurity . <i>SECURITY</i> is optional.
ONTPID	The ONT Password can be used to verify arriving ONT authenticity. <i>ONTPID</i> is a String. <i>ONTPID</i> is optional.
RNGLEN	This parameter indicates the resulting logical range to the ONT in meters derived from the ranging processes. The logical range to the ONT will be longer than the physical range as it includes the impact of processing delay on the ONT. <i>RNGLEN</i> is a Integer. <i>RNGLEN</i> is optional.
SDBER	The threshold value above which the PON Interface bit error rate constitutes a Degraded Signal. <i>SDBER</i> is of type BitErrorRateSD . <i>SDBER</i> is optional.
MANCODE	An optional field returned from the ONT containing a vendor specific manufacturing code. <i>MANCODE</i> is a String. <i>MANCODE</i> is optional.
GOS	<i>GOS</i> is the AID GosAid . <i>GOS</i> is optional.
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String. <i>DESC</i> is optional.

- PST** The Primary Service State of the ONT *PST* is of type [PrimaryState](#). *PST* is optional.
- SST** The Secondary Service State of the ONT *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N2-3-12-1-
22::ONTNUM=117235,REGID=7077663000,ONTPROF=ONT712,VCG=N1-2-IG3,
VENDOR=VNDR,PCODE=AZ,VERSION=VERSION,CLEI=E5SQZFFBAA,SWVER=3.2.1,
BATPROV=Y,BATSTAT=NORMAL,SECURITY=NONE,ONTPID=SECRET,RNGLEN=6,SDBER=5,
MANCODE=MANCODE,GOS=3,DESC=\ "ONT22\ ":"OOS,SB"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-ONT-UA

Name

RTRV-ONT-UA: Retrieve Optical Network Termination UA

Description

Category: PON **Security:** Memory Admin - read

This command retrieves information about an ONT that is connected to the system but is not yet provisioned for service. The C7 collects information about all connected ONTs. The list can be manually cleared with the command INIT-ONT-UA.

Related Messages:

[DLT-AVO](#)
[DLT-IG-VDS1](#)
[DLT-PROF-ONT](#)
[DLT-VCG](#)
[ED-AVO](#)
[ED-ONT](#)
[ED-RFVID](#)
[ED-VRP](#)

[DLT-GOS-ONT](#)
[DLT-ONT](#)
[DLT-RFVID](#)
[DLT-VRP](#)
[ED-GOS-ONT](#)
[ED-PROF-ONT](#)
[ED-VCG](#)
[ENT-AVO](#)

ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV ONT	REPT RMV RFVID
REPT RST AVO	REPT RST ONT
REPT RST RFVID	RMV-AVO
RMV-ONT	RMV-RFVID
RST-AVO	RST-ONT
RST-RFVID	RTRV-ALM-AVO
RTRV-ALM-ONT	RTRV-ALM-RFVID
RTRV-ALM-VCG	RTRV-ALM-VRP
RTRV-AVO	RTRV-COND-ONT
RTRV-COND-VCG	RTRV-COND-VRP
RTRV-GOS-ONT	RTRV-IG-VDS1
RTRV-ONT	RTRV-PM-ONT
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
RTRV-ONT-UA : [ TID ] : <PonRngAid> : [ CTAG ] ;
```

Input Parameters

PonRngAid The PON Port Access Identifier. *PonRngAid* is the AID [FourPortLuNtwkRngAid](#) and is listable and rangeable. *PonRngAid* must not be null.

Input Example

```
RTRV-ONT-UA : SYS : N2-3-12-1 : 568 ;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

" <OntAid> : : [ [ ONTNUM=<ONTNUM> , ] [ VENDOR=<VENDOR> , ] [ VERSION=<VERSION> , ]
[ REGID=<REGID> , ] [ FIRSTFOUND=<FIRSTFOUND> , ] [ LASTFOUND=<LASTFOUND> ] ] "
;
```

Output Parameters

OntAid	Optical Network Termination Access ID for unassigned ONT. <i>OntAid</i> is the AID of OntUaAid .
ONTNUM	The Ont Number for the ONT. This can be physical serial number of the unit or an assigned number programmed into the ONT. This number should be in hexadecimal format. <i>ONTNUM</i> is a String. <i>ONTNUM</i> is optional.
VENDOR	This parameter is a string up to 4 characters long that identifies the ONT Vendor. <i>VENDOR</i> is a String. <i>VENDOR</i> is optional.
VERSION	<i>VERSION</i> is a String. <i>VERSION</i> is optional.
REGID	Registration Id. This is a string of up to 10 digits ('0' through '9'), that can be used instead of ONTNUM for remote ONT registration. Once the ONT has been ranged and associated with a matching REGID at the ONT, the ONTNUM will be recorded and the REGID erased by the system. <i>REGID</i> is a String. <i>REGID</i> is optional.
FIRSTFOUND	Date and Time of the first time this ONT was found through arrival/ranging. <i>FIRSTFOUND</i> is a String. <i>FIRSTFOUND</i> is optional.
LASTFOUND	For BPON the most recent Date and Time that this ONT was found through ranging. In BPON the ONT is maintained on the Unassigned List for five minutes after it is disconnected and LASTFOUND time for such ONTs does not update from the time the ONT was disconnected. For GPON the parameter is not provided, if the ONT is included on the Unassigned ONT list it is currently connected. LASTFOUND is a String. LASTFOUND is optional. <i>LASTFOUND</i> is a String. <i>LASTFOUND</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N2-3-12-1-
UA::ONTNUM=117222,VENDOR=VNDR,VERSION=VERSION,REGID=12345,
    FIRSTFOUND=\"05-10-18 14-22-01\",LASTFOUND=\"05-10-20 10-
13-46\""
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-PM-<OCN>

Name

RTRV-PM-<OCN>: Retrieve Performance Monitoring (OC12, OC3, OC48)

Description

Category: Performance Monitoring

Security: Maintenance - read

This command instructs an NE to send its current set of PM data associated with one or more OCn line within the NE.

The command may be used to evaluate the system before or after NE maintenance operations. Parameters are provided to retrieve past PM data for NEs that can store a history of PM information.

This message and the other PM-related messages are based on the following assumptions about the NEs PM data collection (see GR-820-CORE):

- a. External control over the NE may be exercised in retrieving the PM data, but the NE cannot be commanded externally to change its mode of PM data collection.
- b. Accumulation periods for PM data are fixed in the NE and only the start of the PM day can be changed.
- c. All daily accumulation periods in the NE span the period from midnight to midnight, unless the accumulation period is altered by the SET-PMDAY command.
- d. All hourly accumulation periods in the NE begin and end on the hour.
- e. The duration of all accumulation periods less than an hour must be such that an integral number of periods must total exactly 1 hour, and that there be a period transition occurring on the hour.

Defined in GR-833.

Related Messages:

[DLT-<OCN>](#)

[DLT-GOS-<OCN>](#)

[ED-FFP-<OCN>](#)

[ENT-<OCN>](#)

[ENT-GOS-<OCN>](#)

[OPR-LPBK-<OCN>](#)

[REPT ALM <OCN>](#)

[REPT RMV <OCN>](#)

[RLS-LPBK-<OCN>](#)

[RMV-<OCN>](#)

[RTRV-<OCN>](#)

[RTRV-COND-<OCN>](#)

[RTRV-GOS-<OCN>](#)

[DLT-FFP-<OCN>](#)

[ED-<OCN>](#)

[ED-GOS-<OCN>](#)

[ENT-FFP-<OCN>](#)

[INIT-REG-<OCN>](#)

[OPR-PROTNSW-<OCN>](#)

[REPT EVT <OCN>](#)

[REPT RST <OCN>](#)

[RLS-PROTNSW-<OCN>](#)

[RST-<OCN>](#)

[RTRV-ALM-<OCN>](#)

[RTRV-FFP-<OCN>](#)

Input Format

```
RTRV-PM-<OCN>:[TID]:<OcNAid>:[CTAG]:::  
[<MONTYPE>],,[<LOCN>],,[<TMPER>],[<MONDAT>],[<MONTM>];
```

Input Parameters

OcNAid	OCn Line Access Identifier. The address of the OCn line which the monitored parameter values are requested. <i>OcNAid</i> is the AID FourPortLuAndRapAid and is listable. <i>OcNAid</i> must not be null.
MONTYPE	Monitored Type. This specifies the type of monitored parameter for which a value is requested. A null value retrieves all. <i>MONTYPE</i> is of type MonitorTypeOCn . A null value defaults to "retrieving".
LOCN	Location. This parameter indicates the location, in reference to the entity identified by STS12. Thus, "near end" refers to PM values obtained at the identified entity, and "far end" refers to PM values obtained at a distant entity that is connected to the identified entity. A null value retrieves both. <i>LOCN</i> is of type Location . A null value defaults to "retrieving both".
TMPER	Time Period. This indicates the length of the accumulation time period to which the retrieved parameters apply. Currently 15-MIN and 1-DAY periods are supported. A null value retrieves both. <i>TMPER</i> is of type PMPPeriod . A null value defaults to "retrieving both".
MONDAT	Monitored Date (MM-DD). This parameter identifies the beginning of the PM period. It is ignored if <i>TMPER</i> is specified as 15-MIN. <i>MONDAT</i> is a Date. A null value defaults to "retrieving all".
MONTM	Monitored Time (HH-MM). This parameter identifies the beginning time of day of the requested PM period. It is ignored if <i>TMPER</i> is specified as 1-DAY. <i>MONTM</i> is a Time. A null value defaults to "retrieving all".

Input Example

```
RTRV-PM-OC12:SYS2:N2-4-18-3:555::ES-L,,FEND,,15-MIN,01-01,02-30;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<OcNAid>, [<AIDTYPE>]:<MONTYPE>, <MONVAL>, [<VLDTY>], <LOCN>, , [<TMPER>],
    [<MONDAT>], [<MONTM>]"
;"
```

Output Parameters

OcNAid	OCn Line Access Identifier. The address of the OCn line which the monitored parameter values are requested. <i>OcNAid</i> is the AID FourPortLuAndRapAid .
AIDTYPE	Access Identifier Type. This parameter identifies the type of entity which the performance monitoring is associated with. <i>AIDTYPE</i> is of type AIDType . <i>AIDTYPE</i> is optional.
MONTYPE	Monitored Type. This parameter indicates the monitored type which is being retrieved, such as ES-P, SES-P, etc. <i>MONTYPE</i> is of type MonitorTypeOCn .
MONVAL	Monitored Values. This parameter is the measured value of the monitored type. <i>MONVAL</i> is a Integer.

VLDTY	Validity. This parameter indicates the validity for historical monitoring information. It indicates whether the information for the specified time period was accumulated over the entire time period or some portion of it. <i>VLDTY</i> is of type Validity . <i>VLDTY</i> is optional.
LOCN	Location. This parameter indicates the location, where the PM values were retrieved. Thus, "near end" refers to PM values obtained at the identified entity, and "far end" refers to PM values obtained at a distant entity that is connected to the identified entity. <i>LOCN</i> is of type Location .
TMPER	Time Period. This parameter specifies the accumulation time period for the PM information. <i>TMPER</i> is of type PMPPeriod . <i>TMPER</i> is optional.
MONDAT	Monitored Date (MM-DD). This parameter identifies the beginning of the PM period. <i>MONDAT</i> is a Date. <i>MONDAT</i> is optional.
MONTM	Monitored Time (HH-MM). This parameter identifies the beginning time of day of the requested PM period. <i>MONTM</i> is a Time. <i>MONTM</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N2-4-18-3,STS12:ES-L,100,PRTL,FEND,,15-MIN,01-01,02-30"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-PM-<STS>

Name

RTRV-PM-<[STS](#)>: Retrieve Performance Monitoring (STS1, STS12C, STS3C, STS48C)

Description

Category: Performance Monitoring

Security: Maintenance - read

This command instructs an NE to send its current set of PM data associated with one or more STS1 path within the NE.

The command may be used to evaluate the system before or after NE maintenance operations. Parameters are provided to retrieve past PM data for NEs that can store a history of PM information.

This message and the other PM-related messages are based on the following assumptions about the NEs PM data collection (see GR-820-CORE):

- a. External control over the NE may be exercised in retrieving the PM data, but the NE cannot be commanded externally to change its mode of PM data collection.
- b. Accumulation periods for PM data are fixed in the NE and only the start of the PM day can be changed.
- c. All daily accumulation periods in the NE span the period from midnight to midnight, unless the accumulation period is altered by the SET-PMDAY command.
- d. All hourly accumulation periods in the NE begin and end on the hour.
- e. The duration of all accumulation periods less than an hour must be such that an integral number of periods must total exactly 1 hour, and that there be a period transition occurring on the hour.

Defined in GR-833.

Related Messages:

[DLT-<STSN>](#)

[DLT-GOS-<STSN>](#)

[ED-CRS-<STSN>](#)

[ENT-<STSN>](#)

[ENT-GOS-<STSN>](#)

[OPR-PROTNSW-<STSN>](#)

[REPT EVT <STSN>](#)

[REPT RST <STSN>](#)

[RMV-<STSN>](#)

[RTRV-<STSN>](#)

[RTRV-COND-<STSN>](#)

[RTRV-GOS-<STSN>](#)

[DLT-CRS-<STSN>](#)

[ED-<STSN>](#)

[ED-GOS-<STSN>](#)

[ENT-CRS-<STSN>](#)

[INIT-REG-<STSN>](#)

[REPT ALM <STSN>](#)

[REPT RMV <STSN>](#)

[RLS-PROTNSW-<STSN>](#)

[RST-<STSN>](#)

[RTRV-ALM-<STSN>](#)

[RTRV-CRS-<STSN>](#)

Input Format

```
RTRV-PM-<STSN>:[TID]:<StsAid>:[CTAG]:::  
[<MONTYPE>],,[<LOCN>],,[<TMPPER>],[<MONDAT>],[<MONTM>];
```

Input Parameters

StsAid STS Path Access Identifier. The address of the STS path which the monitored parameter values are requested. *StsAid* is the AID [StsAid](#) and is listable. *StsAid* must not be null.

MONTYPE Monitored Type. This specifies the type of monitored parameter for which a value is requested. A null value retrieves all. *MONTYPE* is of type [MonitorTypeSts](#). A null value defaults to "retrieving".

LOCN Location. This parameter indicates the location, in reference to the entity identified by STS1 facility. Thus, "near end" refers to PM values obtained at the identified entity, and "far end" refers to PM values obtained at a distant entity that is connected to the identified entity. A null value retrieves both. *LOCN* is of type [Location](#). A null value defaults to "retrieving both".

TMPPER Time Period. This indicates the length of the accumulation time period to which the

retrieved parameters apply. Currently 15-MIN and 1-DAY periods are supported. A null value retrieves both. *TMPER* is of type [PMPPeriod](#). A null value defaults to "retrieving both".

- MONDAT** Monitored Date (MM-DD). This parameter identifies the beginning of the PM period. It is ignored if *TMPER* is specified as 15-MIN. *MONDAT* is a Date. A null value defaults to "retrieving all".
- MONTM** Monitored Time (HH-MM). This parameter identifies the beginning time of day of the requested PM period. It is ignored if *TMPER* is specified as 1-DAY. *MONTM* is a Time. A null value defaults to "retrieving all".

Input Example

```
RTRV-PM-STS1:SYS2:N25-1-2-1-3:555::CV-P,,FEND,,15-MIN,01-01,03-15;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD

"<StsAid>, [<AIDTYPE>]:<MONTYPE>, <MONVAL>, [<VLDTY>], <LOCN>, , [<TMPER>],
[<MONDAT>], [<MONTM>]"
;
```

Output Parameters

- StsAid** STS Path Access Identifier. The address of the STS path which the monitored parameter values retrieved. *StsAid* is the AID [StsAid](#).
- AIDTYPE** Access Identifier Type. This parameter identifies the type of entity which the performance monitoring is associated with. *AIDTYPE* is of type [AIDType](#). *AIDTYPE* is optional.
- MONTYPE** Monitored Type. This parameter indicates the monitored type which is being retrieved, such as ES-P, SES-P, etc. *MONTYPE* is of type [MonitorTypeSts](#).
- MONVAL** Monitored Values. This parameter is the measured value of the monitored type. *MONVAL* is a Integer.
- VLDTY** Validity. This parameter indicates the validity for historical monitoring information. It indicates whether the information for the specified time period was accumulated over the entire time period or some portion of it. *VLDTY* is of type [Validity](#). *VLDTY* is optional.
- LOCN** Location. This parameter indicates the location, where the PM values were retrieved. Thus, "near end" refers to PM values obtained at the identified entity, and "far end" refers to PM values obtained at a distant entity that is connected to the identified entity. *LOCN* is of type [Location](#).
- TMPER** Time Period. This parameter specifies the accumulation time period for the PM information. *TMPER* is of type [PMPPeriod](#). *TMPER* is optional.
- MONDAT** Monitored Date (MM-DD). This parameter identifies the beginning of the PM period. *MONDAT* is a Date. *MONDAT* is optional.
- MONTM** *MONTM* is a Time. *MONTM* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N25-1-2-1-3,STS1:CV-P,100,PRTL,FEND,,15-MIN,01-01,03-15"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-PM-ADSL

Name

RTRV-PM-ADSL: Retrieve Performance Monitoring Asymmetric Digital Subscriber Line

Description

Category: Performance Monitoring

Security: Maintenance - read

This command instructs an NE to send its current set of PM data associated with one or more ADSL ports within the NE.

The command may be used to evaluate the system before or after NE maintenance operations. Parameters are provided to retrieve past PM data for NEs that can store a history of PM information.

This message and the other PM-related messages are based on the following assumptions about the NEs PM data collection (see GR-820-CORE):

- a. External control over the NE may be exercised in retrieving the PM data, but the NE cannot be commanded externally to change its mode of PM data collection.
- b. Accumulation periods for PM data are fixed in the NE and only the start of the PM day can be changed.
- c. All daily accumulation periods in the NE span the period from midnight to midnight, unless the accumulation period is altered by the SET-PMDAY command.
- d. All hourly accumulation periods in the NE begin and end on the hour.
- e. The duration of all accumulation periods less than an hour must be such that an integral number of periods must total exactly 1 hour, and that there be a period transition occurring on the hour.

Defined in GR-833.

Related Messages:

[DLT-ADSL](#)
[DLT-TMPLT-ADSL](#)
[ED-GOS-ADSL](#)
[ENT-GOS-ADSL](#)
[INIT-ADSL](#)
[INIT-REG-ADSL](#)
[REPT EVT ADSL](#)
[REPT RST ADSL](#)
[RST-ADSL](#)
[RTRV-ALM-ADSL](#)
[RTRV-CSTAT-ADSL](#)
[RTRV-TMPLT-ADSL](#)

[DLT-GOS-ADSL](#)
[ED-ADSL](#)
[ENT-ADSL](#)
[ENT-TMPLT-ADSL](#)
[INIT-PWR-ADSL](#)
[REPT ALM ADSL](#)
[REPT RMV ADSL](#)
[RMV-ADSL](#)
[RTRV-ADSL](#)
[RTRV-COND-ADSL](#)
[RTRV-GOS-ADSL](#)

Input Format

```
RTRV-PM-
ADSL:[TID]:<AdslAid>:[CTAG]::[<MONTYPE>],,[<LOCN>],,[<TMPER>],
[<MONDAT>],[<MONTM>];
```

Input Parameters

- AdslAid** ADSL Access Identifier. The address of the ADSL ports which the monitored parameter values are requested. *AdslAid* is the AID [TwentyFourPortLuAid](#) and is listable. *AdslAid* must not be null.
- MONTYPE** Monitored Type. This specifies the type of monitored parameter for which a value is requested. A null value retrieves all. *MONTYPE* is of type [MonitorTypeAdsl](#). A null value defaults to "retrieving all".
- LOCN** Location. This parameter indicates the location, in reference to the entity identified by ADSL port. Thus, "near end" refers to PM values obtained at the identified entity, and "far end" refers to PM values obtained at a distant entity that is connected to the identified entity. A null value retrieves both. *LOCN* is of type [Location](#). A null value defaults to "retrieving both".
- TMPER** Time Period. This indicates the length of the accumulation time period to which the retrieved parameters apply. Currently 15-MIN and 1-DAY periods are supported. A null value retrieves both. *TMPER* is of type [PMPPeriod](#). A null value defaults to "retrieving both".
- MONDAT** Monitored Date (MM-DD). This parameter identifies the beginning of the PM period. It is ignored if TMPER is specified as 15-MIN. *MONDAT* is a Date. A null value defaults to "retrieving all".
- MONTM** Monitored Time (HH-MM). This parameter identifies the beginning time of day of the requested PM period. It is ignored if TMPER is specified as 1-DAY. *MONTM* is a Time. A null value defaults to "retrieving all".

Input Example

```
RTRV-PM-ADSL:SYS2:N3-5-1-3:555::CVI-L,,NEND,,15-MIN,01-01,12-30;
```

Output Format

```

SID DATE TIME
M  CTAG COMPLD

"<AdslAid> , [ <AIDTYPE> ] : <MONTYPE> , <MONVAL> , [ <VLDTY> ] , [ <LOCN> ] , , [ <TMPER> ] ,
    [ <MONDAT> ] , [ <MONTM> ] "
;

```

Output Parameters

- AdslAid** ADSL Access Identifier. The address of the ADSL ports which the monitored parameter values retrieved. *AdslAid* is the AID [TwentyFourPortLuAid](#).
- AIDTYPE** Access Identifier Type. This parameter identifies the type of entity which the performance monitoring is associated with. *AIDTYPE* is of type [AIDType](#). *AIDTYPE* is optional.
- MONTYPE** Monitored Type. This parameter indicates the monitored type which is being retrieved, such as ES-L, SES-L, etc. *MONTYPE* is of type [MonitorTypeAdsl](#).
- MONVAL** Monitored Values. This parameter is the measured value of the monitored type. *MONVAL* is a Integer.
- VLDTY** Validity. This parameter indicates the validity for historical monitoring information. It indicates whether the information for the specified time period was accumulated over the entire time period or some portion of it. *VLDTY* is of type [Validity](#). *VLDTY* is optional.
- LOCN** Location. This parameter indicates the location, where the PM values were retrieved. Thus, "near end" refers to PM values obtained at the identified entity, and "far end" refers to PM values obtained at a distant entity that is connected to the identified entity. *LOCN* is of type [Location](#). *LOCN* is optional.
- TMPER** Time Period. This indicates the length of the accumulation time period to which the retrieved parameters apply. Currently 15-MIN and 1-DAY periods are supported. A null value retrieves both. *TMPER* is of type [PMPPeriod](#). *TMPER* is optional.
- MONDAT** Monitored Date (MM-DD). This parameter identifies the beginning of the PM period. *MONDAT* is a Date. *MONDAT* is optional.
- MONTM** Monitored Time (HH-MM). This parameter identifies the beginning time of day of the requested PM period. *MONTM* is a Time. *MONTM* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-5-1-3,ADSL:CVI-L,100,PRTL,NEND,,15-MIN,01-01,12-30"
;

```

Errors

This message generates all of the [Default Errors](#).

RTRV-PM-AP

Name

RTRV-PM-AP: Retrieve Performance Monitoring ATM Resource Port

Description

Category: Performance Monitoring **Security:** Maintenance - read

This command instructs an NE to send its current set of PM data associated with one or more ATM Resource ports within the NE.

The command may be used to evaluate the system before or after NE maintenance operations. Parameters are provided to retrieve past PM data for NEs that can store a history of PM information.

This message and the other PM-related messages are based on the following assumptions about the NEs PM data collection (see GR-820-CORE):

- a. External control over the NE may be exercised in retrieving the PM data, but the NE cannot be commanded externally to change its mode of PM data collection.
- b. Accumulation periods for PM data are fixed in the NE and only the start of the PM day can be changed.
- c. All daily accumulation periods in the NE span the period from midnight to midnight, unless the accumulation period is altered by the SET-PMDAY command.
- d. All hourly accumulation periods in the NE begin and end on the hour.
- e. The duration of all accumulation periods less than an hour must be such that an integral number of periods must total exactly 1 hour, and that there be a period transition occurring on the hour.

Defined in GR-833.

Related Messages:

[DLT-AP](#)

[DLT-AP-T1](#)

[DLT-GOS-AP](#)

[DLT-GOS-IMA](#)

[DLT-GOS-IMALINK](#)

[DLT-IMA](#)

[DLT-IMA-PORT](#)

[ED-AP](#)

[ED-GOS-AP](#)

[ED-GOS-IMA](#)

[ED-GOS-IMALINK](#)

[ED-IMA](#)

[ENT-AP](#)

[ENT-AP-T1](#)

[ENT-GOS-AP](#)

[ENT-GOS-IMA](#)

[ENT-GOS-IMALINK](#)

[ENT-IMA](#)

[ENT-IMA-PORT](#)

[INIT-REG-AP](#)

[INIT-REG-IMA](#)

[INIT-REG-IMALINK](#)

[REPT ALM AP](#)

[REPT ALM IMA](#)

[REPT ALM IMALINK](#)
[REPT EVT IMA](#)
[REPT RMV AP](#)
[RMV-AP](#)
[RST-AP](#)
[RTRV-ALM-AP](#)
[RTRV-ALM-IMALINK](#)
[RTRV-COND-AP](#)
[RTRV-GOS-AP](#)
[RTRV-GOS-IMALINK](#)
[RTRV-PM-IMA](#)

[REPT EVT AP](#)
[REPT EVT IMALINK](#)
[REPT RST AP](#)
[RMV-IMA](#)
[RST-IMA](#)
[RTRV-ALM-IMA](#)
[RTRV-AP](#)
[RTRV-COND-IMA](#)
[RTRV-GOS-IMA](#)
[RTRV-IMA](#)
[RTRV-PM-IMALINK](#)

Input Format

```
RTRV-PM-
AP:[ TID ]:<ApAid>:[ CTAG ]::[ <MONTYPE> ] , , [ <LOCN> ] , , [ <TMPER> ] , [ <MONDAT> ] ,
[ <MONTM> ] ;
```

Input Parameters

- ApAid** *ApAid* is the AID [AtmRscPortAid](#) and is listable. *ApAid* must not be null.
- MONTYPE** Monitored Type. This parameter indicates the monitored type which is being retrieved, such as IV-IMA, SES-IMA, etc. *MONTYPE* is of type [MonitorTypeAp](#). A null value defaults to "retrieving all".
- LOCN** *LOCN* is of type [Location](#). A null value defaults to "retrieving both".
- TMPER** Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. *TMPER* is of type [PMPeriod](#). A null value is equivalent to "ALL".
- MONDAT** Monitored Date (MM-DD). This parameter identifies the beginning of the PM period. It is ignored if TMPER is specified as 15-MIN. *MONDAT* is a Date. A null value defaults to "retrieving all".
- MONTM** Monitored Time (HH-MM). This parameter identifies the beginning time of day of the requested PM period. It is ignored if TMPER is specified as 1-DAY. *MONTM* is a Time. A null value defaults to "retrieving all".

Input Example

```
RTRV-PM-AP:SYS2:N3-5-7-AP3:555::TCC-P,,NEND,,15-MIN,01-01,04-45;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<ApAid>,[ <AIDTYPE> ]:[ <MONTYPE> ],[ <MONVAL> ],[ <VLDTY> ],[ <LOCN> ] , , [ <TMPER> ] ,
[ <MONDAT> ] , [ <MONTM> ] "
;"
```

Output Parameters

- ApAid** *ApAid* is the AID [ApId](#).
- AIDTYPE** Access Identifier Type. This parameter identifies the type of entity which the performance monitoring is associated with. *AIDTYPE* is of type [AIDType](#). *AIDTYPE* is optional.
- MONTYPE** Monitored Type. This parameter indicates the monitored type which is being retrieved, such as ES-L, SES-L, etc. *MONTYPE* is of type [MonitorTypeAp](#). *MONTYPE* is optional.
- MONVAL** Monitored Values. This parameter is the measured value of the monitored type. *MONVAL* is a Integer. *MONVAL* is optional.
- VLDTY** Validity. This parameter indicates the validity for historical monitoring information. It indicates whether the information for the specified time period was accumulated over the entire time period or some portion of it. *VLDTY* is of type [Validity](#). *VLDTY* is optional.
- LOCN** Location. Indicates whether the near end or far end Path PM registers are to be edited. Section PM registers are only kept in association with the near end. *LOCN* is of type [Location](#). *LOCN* is optional.
- TMPER** Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. *TMPER* is of type [PMPeriod](#). *TMPER* is optional.
- MONDAT** Monitored Date (MM-DD). This parameter identifies the beginning of the PM period. *MONDAT* is a Date. *MONDAT* is optional.
- MONTM** Monitored Time (HH-MM). This parameter identifies the beginning time of day of the requested PM period. *MONTM* is a Time. *MONTM* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-5-7-AP3,T1:TCC-P,78,PRTL,NEND,,15-MIN,01-01,04-45"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-PM-EC1

Name

RTRV-PM-EC1: Retrieve Performance Electrical Carrier

Description

Category: Performance Monitoring

Security: Maintenance - read

This command instructs an NE to send its current set of PM data associated with one or more EC1 lines within the NE.

The command may be used to evaluate the system before or after NE maintenance operations. Parameters are provided to retrieve past PM data for NEs that can store a history of PM information.

This message and the other PM-related messages are based on the following assumptions about the NEs PM data collection (see GR-820-CORE):

- a. External control over the NE may be exercised in retrieving the PM data, but the NE cannot be commanded externally to change its mode of PM data collection.
- b. Accumulation periods for PM data are fixed in the NE and only the start of the PM day can be changed.
- c. All daily accumulation periods in the NE span the period from midnight to midnight, unless the accumulation period is altered by the SET-PMDAY command.
- d. All hourly accumulation periods in the NE begin and end on the hour.
- e. The duration of all accumulation periods less than an hour must be such that an integral number of periods must total exactly 1 hour, and that there be a period transition occurring on the hour.

Related Messages:

[DLT-EC1](#)
[ED-EC1](#)
[ENT-EC1](#)
[INIT-REG-EC1](#)
[REPT ALM EC1](#)
[REPT RMV EC1](#)
[RLS-LPBK-EC1](#)
[RST-EC1](#)
[RTRV-COND-EC1](#)
[RTRV-GOS-EC1](#)

[DLT-GOS-EC1](#)
[ED-GOS-EC1](#)
[ENT-GOS-EC1](#)
[OPR-LPBK-EC1](#)
[REPT EVT EC1](#)
[REPT RST EC1](#)
[RMV-EC1](#)
[RTRV-ALM-EC1](#)
[RTRV-EC1](#)

Input Format

```
RTRV-PM-
EC1:[TID]:<Ec1Aid>:[CTAG]::[<MONTYPE>],,[<LOCN>],,[<TMPER>],
[<MONDAT>],[<MONTM>];
```

Input Parameters

Ec1Aid EC1 Access Identifier. The address of the EC1 ports having the monitored parameter values retrieved. *Ec1Aid* is the AID [TwelvePortLuAid](#) and is listable. *Ec1Aid* must not be null.

MONTYPE	Monitored Type. This parameter indicates the monitored type which is being retrieved, such as ES-L, SES-L, etc. <i>MONTYPE</i> is of type MonitorTypeEc1 . A null value defaults to "retrieving all".
LOCN	Location. Indicates whether the near end or far end Path PM registers are to be edited. Section PM registers are only kept in association with the near end. <i>LOCN</i> is of type Location . A null value defaults to "retrieving both".
TMPER	Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. <i>TMPER</i> is of type PMPeriod . A null value defaults to "retrieving both".
MONDAT	Monitored Date (MM-DD). This parameter identifies the beginning of the PM period. It is ignored if <i>TMPER</i> is specified as 15-MIN. <i>MONDAT</i> is a Date. A null value defaults to "retrieving all".
MONTM	Monitored Time (HH-MM). This parameter identifies the beginning time of day of the requested PM period. It is ignored if <i>TMPER</i> is specified as 1-DAY. <i>MONTM</i> is a Time. A null value defaults to "retrieving all".

Input Example

```
RTRV-PM-EC1:SYS2:N2-4-18-3:555::ES-L,,FEND,,15-MIN,01-01,02-30;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<Ec1Aid>,[<AIDTYPE>]:<MONTYPE>,<MONVAL>,[<VLDTY>],<LOCN>,,[<TMPER>],
[<MONDAT>],[<MONTM>]"
;
```

Output Parameters

Ec1Aid	EC1 Access Identifier. The address of the EC1 ports having the monitored parameter values retrieved. <i>Ec1Aid</i> is the AID TwelvePortLuAid .
AIDTYPE	Access Identifier Type. This parameter identifies the type of entity which the performance monitoring is associated with. <i>AIDTYPE</i> is of type AIDType . <i>AIDTYPE</i> is optional.
MONTYPE	Monitored Type. This parameter indicates the monitored type which is being retrieved, such as ES-L, SES-L, etc. <i>MONTYPE</i> is of type MonitorTypeEc1 .
MONVAL	Monitored Values. This parameter is the measured value of the monitored type. <i>MONVAL</i> is a Integer.
VLDTY	Validity. This parameter indicates the validity for historical monitoring information. It indicates whether the information for the specified time period was accumulated over the entire time period or some portion of it. <i>VLDTY</i> is of type Validity . <i>VLDTY</i> is optional.
LOCN	Location. Indicates whether the near end or far end Path PM registers are to be edited. Section PM registers are only kept in association with the near end. <i>LOCN</i> is of type Location .
TMPER	Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. <i>TMPER</i> is of type PMPeriod .

TMPER is optional.

- MONDAT** Monitored Date (MM-DD). This parameter identifies the beginning of the PM period. *MONDAT* is a Date. *MONDAT* is optional.
- MONTM** Monitored Time (HH-MM). This parameter identifies the beginning time of day of the requested PM period. *MONTM* is a Time. *MONTM* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N2-4-18-3,STS12:ES-L,100,PRTL,FEND,,15-MIN,01-01,02-30"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-PM-ETH

Name

RTRV-PM-ETH: Retrieve Performance Monitoring Ethernet Port

Description

Category: Performance Monitoring **Security:** Maintenance - read

This command instructs an NE to send its current set of PM data associated with a specified ONT Ethernet Port on a GPON.

The command may be used to evaluate the system before or after NE maintenance operations. Parameters are provided to retrieve past PM data for NEs that can store a history of PM information.

This message and the other PM-related messages are based on the following assumptions about the NEs PM data collection (see GR-820-CORE):

- a. External control over the NE may be exercised in retrieving the PM data, but the NE cannot be commanded externally to change its mode of PM data collection.
- b. Accumulation periods for PM data are fixed in the NE and only the start of the PM day can be changed.
- c. All daily accumulation periods in the NE span the period from midnight to midnight, unless the accumulation period is altered by the SET-PMDAY command.
- d. All hourly accumulation periods in the NE begin and end on the hour.

e. The duration of all accumulation periods less than an hour must be such that an integral number of periods must total exactly 1 hour, and that there be a period transition occurring on the hour.

Defined in GR-833. *Not supported in release 5.1*

Related Messages:

[DLT-AGG](#)

[DLT-AGG-PORT](#)

[DLT-ETH-ACL](#)

[DLT-LSWITCH](#)

[DLT-PROF-ETH](#)

[DLT-VLAN-PORT](#)

[ED-ETH](#)

[ED-VLAN](#)

[ED-VLAN-VBPORT](#)

[ENT-AGG-ACL](#)

[ENT-ETH](#)

[ENT-GOS-ETH](#)

[ENT-LSWITCH-PORT](#)

[ENT-VLAN](#)

[ENT-VLAN-VBPORT](#)

[INIT-STAT-ETH](#)

[REPT EVT ETH](#)

[REPT RST ETH](#)

[RST-ETH](#)

[RTRV-AGG-ACL](#)

[RTRV-ALM-ETH](#)

[RTRV-ETH](#)

[RTRV-GOS-ETH](#)

[RTRV-LSWITCH-PORT](#)

[RTRV-STAT-ETH](#)

[RTRV-VLAN-PORT](#)

[DLT-AGG-ACL](#)

[DLT-ETH](#)

[DLT-GOS-ETH](#)

[DLT-LSWITCH-PORT](#)

[DLT-VLAN](#)

[DLT-VLAN-VBPORT](#)

[ED-GOS-ETH](#)

[ED-VLAN-PORT](#)

[ENT-AGG](#)

[ENT-AGG-PORT](#)

[ENT-ETH-ACL](#)

[ENT-LSWITCH](#)

[ENT-PROF-ETH](#)

[ENT-VLAN-PORT](#)

[INIT-LSWITCH](#)

[REPT ALM ETH](#)

[REPT RMV ETH](#)

[RMV-ETH](#)

[RTRV-AGG](#)

[RTRV-AGG-PORT](#)

[RTRV-COND-ETH](#)

[RTRV-ETH-ACL](#)

[RTRV-LSWITCH](#)

[RTRV-PROF-ETH](#)

[RTRV-VLAN](#)

[RTRV-VLAN-VBPORT](#)

Input Format

```
RTRV-PM-
ETH:[TID]:<OntEthPortAid>:[CTAG]:::<MONTYPE>,,,<LOCN>,,,<TMPER>,
[MONDAT],<MONTM>;
```

Input Parameters

OntEthPortAid ONT Ethernet Port Access Identifier. The address of the GPON ONT Ethernet Port for which the monitored parameter values are requested. *OntEthPortAid* is the AID [OntPortAid](#) and is listable. *OntEthPortAid* must not be null.

MONTYPE Monitored Type. This specifies the type of monitored parameter for which a value is

requested. A null value retrieves all. *MONTYPE* is of type [MonitorTypeOntEth](#). A null value defaults to "retrieving all".

LOCN	Location. This parameter indicates the location, in reference to the entity identified by T1 port. Thus, "near end" refers to PM values obtained at the identified entity, and "far end" refers to PM values obtained at a distant entity that is connected to the identified entity. A null value retrieves both. <i>LOCN</i> is of type Location . A null value defaults to "retrieving both".
TMPER	Time Period. This indicates the length of the accumulation time period to which the retrieved parameters apply. Currently 15-MIN and 1-DAY periods are supported. A null value retrieves both. <i>TMPER</i> is of type PMPeriod . A null value defaults to "retrieving both".
MONDAT	Monitored Date (MM-DD). This parameter identifies the beginning of the PM period. It is ignored if <i>TMPER</i> is specified as 15-MIN. <i>MONDAT</i> is a Date. A null value defaults to "retrieving all".
MONTM	Monitored Time (HH-MM). This parameter identifies the beginning time of day of the requested PM period. It is ignored if <i>TMPER</i> is specified as 1-DAY. <i>MONTM</i> is a Time. A null value defaults to "retrieving all".

Input Example

```
RTRV-PM-ETH:SYS2:N3-5-2-3-44-2:555::INBUFOVFL,,NEND,,15-MIN,01-
01,04-45;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD

"<OntEthPortAid>,[<AIDTYPE>]:<MONTYPE>,<MONVAL>,[<VLDTY>],[<LOCN>],,
[<TMRPER>],[<MONDAT>],[<MONTM>]"
;"
```

Output Parameters

OntEthPortAid	ONT Ethernet Port Access Identifier. The address of the GPON ONT Ethernet Port for which the monitored parameter values are requested. <i>OntEthPortAid</i> is the AID OntPortAid .
AIDTYPE	Access Identifier Type. This parameter identifies the type of entity which the performance monitoring is associated with. <i>AIDTYPE</i> is of type AIDType . <i>AIDTYPE</i> is optional.
MONTYPE	Monitored Type. This specifies the type of monitored parameter for which a value is requested. A null value retrieves all. <i>MONTYPE</i> is of type MonitorTypeOntEth .
MONVAL	Monitored Values. This parameter is the measured value of the monitored type. <i>MONVAL</i> is a Integer.
VLDTY	Validity. This parameter indicates the validity for historical monitoring information. It indicates whether the information for the specified time period was accumulated over the entire time period or some portion of it. <i>VLDTY</i> is of type Validity . <i>VLDTY</i> is optional.

LOCN	Location. This parameter indicates the location, where the PM values were retrieved. Thus, "near end" refers to PM values obtained at the identified entity, and "far end" refers to PM values obtained at a distant entity that is connected to the identified entity. <i>LOCN</i> is of type Location . <i>LOCN</i> is optional.
TMPER	Time Period. This parameter specifies the accumulation time period for the PM information. <i>TMPER</i> is of type PMPPeriod . <i>TMPER</i> is optional.
MONDAT	Monitored Date (MM-DD). This parameter identifies the beginning of the PM period. <i>MONDAT</i> is a Date. <i>MONDAT</i> is optional.
MONTM	Monitored Time (HH-MM). This parameter identifies the beginning time of day of the requested PM period. <i>MONTM</i> is a Time. <i>MONTM</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-5-2-3-44-2,ETH:INBUFOVFL,1,PRTL,NEND,,15-MIN,01-01,04-45"
;

```

Errors

This message generates all of the [Default Errors](#).

RTRV-PM-HDSL

Name

RTRV-PM-HDSL: Retrieve Performance Monitoring High bit rate Digital Subscriber Line

Description

Category: Performance Monitoring **Security:** Maintenance - read

This command instructs an NE to send its current set of PM data associated with one or more HDSL ports within the NE.

The command may be used to evaluate the system before or after NE maintenance operations. Parameters are provided to retrieve past PM data for NEs that can store a history of PM information.

This message and the other PM-related messages are based on the following assumptions about the NEs PM data collection (see GR-820-CORE):

- a. External control over the NE may be exercised in retrieving the PM data, but the NE cannot be commanded externally to change its mode of PM data collection.
- b. Accumulation periods for PM data are fixed in the NE and only the start of the PM day can be changed.

- c. All daily accumulation periods in the NE span the period from midnight to midnight, unless the accumulation period is altered by the SET-PMDAY command.
- d. All hourly accumulation periods in the NE begin and end on the hour.
- e. The duration of all accumulation periods less than an hour must be such that an integral number of periods must total exactly 1 hour, and that there be a period transition occurring on the hour.

Defined in GR-833.

Related Messages:

DLT-GOS-HDSL	DLT-HDSL
ED-GOS-HDSL	ED-HDSL
ENT-GOS-HDSL	ENT-HDSL
INIT-HDSL	INIT-REG-HDSL
OPR-LPBK-HDSL	REPT ALM HDSL
REPT EVT HDSL	REPT RMV HDSL
REPT RST HDSL	RLS-LPBK-HDSL
RMV-HDSL	RST-HDSL
RTRV-ALM-HDSL	RTRV-COND-HDSL
RTRV-CSTAT-HDSL	RTRV-GOS-HDSL
RTRV-HDSL	RTRV-HTU

Input Format

```
RTRV-PM-
HDSL: [ TID ] :<HdslAid> :[ CTAG ] :: [ <MONTYPE> ] , , [ <LOCN> ] , , [ <TMPPER> ] ,
[ <MONDAT> ] , [ <MONTM> ] ;
```

Input Parameters

HdslAid	HDSL Port Access Identifier. The address of the HDSL port which the monitored parameter values are requested. <i>HdslAid</i> is the AID SixPortLuAid and is listable. <i>HdslAid</i> must not be null.
MONTYPE	Monitored Type. This specifies the type of monitored parameter for which a value is requested. A null value retrieves all. <i>MONTYPE</i> is of type MonitorTypeHdsL . A null value defaults to "retrieving all".
LOCN	Location. This parameter indicates the location, in reference to the entity identified by HDSL port. Thus, "near end" refers to PM values obtained at the identified entity, and "far end" refers to PM values obtained at a distant entity that is connected to the identified entity. A null value retrieves both. <i>LOCN</i> is of type Location . A null value defaults to "retrieving both".
TMPPER	Time Period. This indicates the length of the accumulation time period to which the retrieved parameters apply. Currently 15-MIN and 1-DAY periods are supported. A null value retrieves both. <i>TMPPER</i> is of type PMPPeriod . A null value defaults to "retrieving both".

- MONDAT** Monitored Date (MM-DD). This parameter identifies the beginning of the PM period. It is ignored if TMPER is specified as 15-MIN. *MONDAT* is a Date. A null value defaults to "retrieving all".
- MONTM** Monitored Time (HH-MM). This parameter identifies the beginning time of day of the requested PM period. It is ignored if TMPER is specified as 1-DAY. *MONTM* is a Time. A null value defaults to "retrieving all".

Input Example

```
RTRV-PM-HDSL:SYS2:N3-5-1-3:123::CVI-L,,NEND,,15-MIN,01-01,12-30;
```

Output Format

```
    SID DATE TIME
M   CTAG COMPLD
"<HdslAid>,[<AIDTYPE>]:<MONTYPE>,<MONVAL>,[<VLDTY>],[<LOCN>],,[<TMPER>],
    [<MONDAT>],[<MONTM>]"
;
```

Output Parameters

- HdslAid** HDSL Port Access Identifier. The address of the HDSL port which the monitored parameter values are requested. *HdslAid* is the AID [TwelvePortLuAid](#).
- AIDTYPE** Access Identifier Type. This parameter identifies the type of entity which the performance monitoring is associated with. *AIDTYPE* is of type [AIDType](#). *AIDTYPE* is optional.
- MONTYPE** Monitored Type. This parameter indicates the monitored type which is being retrieved, such as ES-P, SES-P, etc. *MONTYPE* is of type [MonitorTypeHdsl](#).
- MONVAL** Monitored Values. This parameter is the measured value of the monitored type. *MONVAL* is a Integer.
- VLDTY** Validity. This parameter indicates the validity for historical monitoring information. It indicates whether the information for the specified time period was accumulated over the entire time period or some portion of it. *VLDTY* is of type [Validity](#). *VLDTY* is optional.
- LOCN** Location. This parameter indicates the location, where the PM values were retrieved. Thus, "near end" refers to PM values obtained at the identified entity, and "far end" refers to PM values obtained at a distant entity that is connected to the identified entity. *LOCN* is of type [Location](#). *LOCN* is optional.
- TMPER** Time Period. This parameter specifies the accumulation time period for the PM information. *TMPER* is of type [PMPPeriod](#). *TMPER* is optional.
- MONDAT** Monitored Date (MM-DD). This parameter identifies the beginning of the PM period. *MONDAT* is a Date. *MONDAT* is optional.
- MONTM** Monitored Time (HH-MM). This parameter identifies the beginning time of day of the requested PM period. *MONTM* is a Time. *MONTM* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
```

M 001 COMPLD "N3-5-1-3, HDSL:CVI-L, 100, PRTL, NEND, , 15-MIN, 01-01, 12-30" ;
--

Errors

This message generates all of the [Default Errors](#).

RTRV-PM-IMA

Name

RTRV-PM-IMA: RTRV PM IMA

Description

Category: Performance Monitoring **Security:** Maintenance - read

This command instructs an NE to send its current set of PM data associated with one or more IMA groups within the NE.

The command may be used to evaluate the system before or after NE maintenance operations. Parameters are provided to retrieve past PM data for NEs that can store a history of PM information.

This message and the other PM-related messages are based on the following assumptions about the NEs PM data collection (see GR-820-CORE):

- a. External control over the NE may be exercised in retrieving the PM data, but the NE cannot be commanded externally to change its mode of PM data collection.
- b. Accumulation periods for PM data are fixed in the NE and only the start of the PM day can be changed.
- c. All daily accumulation periods in the NE span the period from midnight to midnight, unless the accumulation period is altered by the SET-PMDAY command.
- d. All hourly accumulation periods in the NE begin and end on the hour.
- e. The duration of all accumulation periods less than an hour must be such that an integral number of periods must total exactly 1 hour, and that there be a period transition occurring on the hour.

Related Messages:

[DLT-AP](#)

[DLT-AP-T1](#)

[DLT-GOS-AP](#)

[DLT-GOS-IMA](#)

[DLT-GOS-IMALINK](#)

[DLT-IMA](#)

[DLT-IMA-PORT](#)

[ED-AP](#)

ED-GOS-AP	ED-GOS-IMA
ED-GOS-IMALINK	ED-IMA
ENT-AP	ENT-AP-T1
ENT-GOS-AP	ENT-GOS-IMA
ENT-GOS-IMALINK	ENT-IMA
ENT-IMA-PORT	INIT-REG-AP
INIT-REG-IMA	INIT-REG-IMALINK
REPT ALM AP	REPT ALM IMA
REPT ALM IMALINK	REPT EVT AP
REPT EVT IMA	REPT EVT IMALINK
REPT RMV AP	REPT RST AP
RMV-AP	RMV-IMA
RST-AP	RST-IMA
RTRV-ALM-AP	RTRV-ALM-IMA
RTRV-ALM-IMALINK	RTRV-AP
RTRV-COND-AP	RTRV-COND-IMA
RTRV-GOS-AP	RTRV-GOS-IMA
RTRV-GOS-IMALINK	RTRV-IMA
RTRV-PM-AP	RTRV-PM-IMALINK

Input Format

```
RTRV-PM-
IMA:[TID]:<ImaAid>:[CTAG]::[<MONTYPE>],,[<LOCN>],,[<TMPPER>],
[<MONDAT>],[<MONTM>];
```

Input Parameters

- ImaAid** IMA Group Access Identifier. The address of the IMA group which the monitored parameter values retrieved. *ImaAid* is the AID [ImaGrpAid](#) and is listable. *ImaAid* must not be null.
- MONTYPE** Monitored Type. This parameter indicates the monitored type which is being retrieved, such as GR-FC, GR-UAS-IMA, etc. *MONTYPE* is of type [MonitorTypeIma](#). A null value defaults to "retrieving all".
- LOCN** Location. Indicates whether the near end or far end Path PM registers are to be edited. Section PM registers are only kept in association with the near end. *LOCN* is of type [Location](#). A null value defaults to "retrieving both".
- TMPPER** Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. *TMPPER* is of type [PMPeriod](#). A null value defaults to "retrieving both".
- MONDAT** Monitored Date (MM-DD). This parameter identifies the beginning of the PM period. It is ignored if TMPPER is specified as 15-MIN. *MONDAT* is a Date. A null value defaults to "retrieving all".
- MONTM** Monitored Time (HH-MM). This parameter identifies the beginning time of day of the requested PM period. It is ignored if TMPPER is specified as 1-DAY. *MONTM* is a Time. A null value defaults to "retrieving all".

Input Example

```
RTRV-PM-IMA:SYS2:N3-5-7-IMA3:555::GR-FC,,FEND,,15-MIN,01-01,04-
45;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD

"<ImaAid>, [<AIDTYPE>]:<MONTYPE>,<MONVAL>,[<VLDTY>],<LOCN>,,[<TMPER>],
[<MONDAT>],[<MONTM>]"
;"
```

Output Parameters

- ImaAid** This command instructs an NE to send its current set of PM data associated with one or more IMA Groups within the NE. The command may be used to evaluate the system before or after NE maintenance operations. Parameters are provided to retrieve past PM data for NEs that can store a history of PM information. This message and the other PM-related messages are based on the following assumptions about the NEs PM data collection (see GR-820-CORE): a. External control over the NE may be exercised in retrieving the PM data, but the NE cannot be commanded externally to change its mode of PM data collection. b. Accumulation periods for PM data are fixed in the NE and only the start of the PM day can be changed. c. All daily accumulation periods in the NE span the period from midnight to midnight, unless the accumulation period is altered by the SET-PMDAY command. d. All hourly accumulation periods in the NE begin and end on the hour. e. The duration of all accumulation periods less than an hour must be such that an integral number of periods must total exactly 1 hour, and that there be a period transition occurring on the hour. *ImaAid* is the AID [ImaGrpAid](#).
- AIDTYPE** Access Identifier Type. This parameter identifies the type of entity which the performance monitoring is associated with. *AIDTYPE* is of type [AIDType](#). *AIDTYPE* is optional.
- MONTYPE** Monitored Type. This parameter indicates the monitored type which is being retrieved, such as GR-FC, GR-UAS-IMA, etc. *MONTYPE* is of type [MonitorTypeIma](#).
- MONVAL** Monitored Values. This parameter is the measured value of the monitored type. *MONVAL* is a Integer.
- VLDTY** Validity. This parameter indicates the validity for historical monitoring information. It indicates whether the information for the specified time period was accumulated over the entire time period or some portion of it. *VLDTY* is of type [Validity](#). *VLDTY* is optional.
- LOCN** Location. Indicates whether the near end or far end Path PM registers are to be edited. Section PM registers are only kept in association with the near end. *LOCN* is of type [Location](#).
- TMPER** Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. *TMPER* is of type [PMPeriod](#). *TMPER* is optional.
- MONDAT** Monitored Date (MM-DD). This parameter identifies the beginning of the PM period. *MONDAT* is a Date. *MONDAT* is optional.

MONTM Monitored Time (HH-MM). This parameter identifies the beginning time of day of the requested PM period. *MONTM* is a Time. *MONTM* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-5-7-IMA3,T1:GR-FC,100,PRTL,FEND,,15-MIN,01-01,04-45"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-PM-IMALINK

Name

RTRV-PM-IMALINK: Retrieve Performance Monitoring IMALINK

Description

Category: Performance Monitoring **Security:** Maintenance - read

This command instructs an NE to send its current set of PM data associated with one or more IMA links within the NE.

The command may be used to evaluate the system before or after NE maintenance operations. Parameters are provided to retrieve past PM data for NEs that can store a history of PM information.

This message and the other PM-related messages are based on the following assumptions about the NEs PM data collection (see GR-820-CORE):

- a. External control over the NE may be exercised in retrieving the PM data, but the NE cannot be commanded externally to change its mode of PM data collection.
- b. Accumulation periods for PM data are fixed in the NE and only the start of the PM day can be changed.
- c. All daily accumulation periods in the NE span the period from midnight to midnight, unless the accumulation period is altered by the SET-PMDAY command.
- d. All hourly accumulation periods in the NE begin and end on the hour.
- e. The duration of all accumulation periods less than an hour must be such that an integral number of periods must total exactly 1 hour, and that there be a period transition occurring on the hour.

Related Messages:

DLT-AP	DLT-AP-T1
DLT-GOS-AP	DLT-GOS-IMA
DLT-GOS-IMALINK	DLT-IMA
DLT-IMA-PORT	ED-AP
ED-GOS-AP	ED-GOS-IMA
ED-GOS-IMALINK	ED-IMA
ENT-AP	ENT-AP-T1
ENT-GOS-AP	ENT-GOS-IMA
ENT-GOS-IMALINK	ENT-IMA
ENT-IMA-PORT	INIT-REG-AP
INIT-REG-IMA	INIT-REG-IMALINK
REPT ALM AP	REPT ALM IMA
REPT ALM IMALINK	REPT EVT AP
REPT EVT IMA	REPT EVT IMALINK
REPT RMV AP	REPT RST AP
RMV-AP	RMV-IMA
RST-AP	RST-IMA
RTRV-ALM-AP	RTRV-ALM-IMA
RTRV-ALM-IMALINK	RTRV-AP
RTRV-COND-AP	RTRV-COND-IMA
RTRV-GOS-AP	RTRV-GOS-IMA
RTRV-GOS-IMALINK	RTRV-IMA
RTRV-PM-AP	RTRV-PM-IMA

Input Format

```
RTRV-PM-
IMALINK: [ TID ]:<ImaLinkAid>:[ CTAG ]::[ <MONTYPE> ] , , [ <LOCN> ] , , [ <TMPER> ] ,
[ <MONDAT> ] , [ <MONTM> ] ;
```

Input Parameters

- ImaLinkAid** IMA Link Access Identifier. The address of the IMA Link having the monitored parameter values retrieved. *ImaLinkAid* is the AID [SixPortLuAid](#) and is listable. *ImaLinkAid* must not be null.
- MONTYPE** Monitored Type. This parameter indicates the monitored type which is being retrieved, such as IV-IMA, SES-IMA, etc. *MONTYPE* is of type [MonitorTypeImaLink](#). A null value defaults to "retrieving all".
- LOCN** Location. Indicates whether the near end or far end Path PM registers are to be edited. Section PM registers are only kept in association with the near end. *LOCN* is of type [Location](#). A null value defaults to "retrieving both".
- TMPER** Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. *TMPER* is of type [PMPPeriod](#). A null value defaults to "retrieving both".

- MONDAT** Monitored Date (MM-DD). This parameter identifies the beginning of the PM period. It is ignored if TMPER is specified as 15-MIN. *MONDAT* is a Date. A null value defaults to "retrieving all".
- MONTM** Monitored Time (HH-MM). This parameter identifies the beginning time of day of the requested PM period. It is ignored if TMPER is specified as 1-DAY. *MONTM* is a Time. A null value defaults to "retrieving all".

Input Example

```
RTRV-PM-IMALINK:SYS2:N3-5-7-3:555::IV-IMA,,FEND,,15-MIN,01-01,04-45;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<ImaLinkAid>,[<AIDTYPE>]:<MONTYPE>,<MONVAL>,[<VLDTY>],<LOCN>,,[<TMPER>],
[<MONDAT>],[<MONTM>]"
;
```

Output Parameters

- ImaLinkAid** IMA Link Access Identifier. The address of the IMA Link having the monitored parameter values retrieved. *ImaLinkAid* is the AID [SixPortLuAid](#).
- AIDTYPE** Access Identifier Type. This parameter identifies the type of entity which the performance monitoring is associated with. *AIDTYPE* is of type [AIDType](#). *AIDTYPE* is optional.
- MONTYPE** Monitored Type. This parameter indicates the monitored type which is being retrieved, such as IV-IMA, SES-IMA, etc. *MONTYPE* is of type [MonitorTypeImaLink](#).
- MONVAL** Monitored Values. This parameter is the measured value of the monitored type. *MONVAL* is a Integer.
- VLDTY** Validity. This parameter indicates the validity for historical monitoring information. It indicates whether the information for the specified time period was accumulated over the entire time period or some portion of it. *VLDTY* is of type [Validity](#). *VLDTY* is optional.
- LOCN** Location. Indicates whether the near end or far end Path PM registers are to be edited. Section PM registers are only kept in association with the near end. *LOCN* is of type [Location](#).
- TMPER** Time Period. This indicates the period of time that the PM threshold values apply to. Currently 15-MIN and 1-DAY period are supported. *TMPER* is of type [PMPPeriod](#). *TMPER* is optional.
- MONDAT** Monitored Date (MM-DD). This parameter identifies the beginning of the PM period. *MONDAT* is a Date. *MONDAT* is optional.
- MONTM** Monitored Time (HH-MM). This parameter identifies the beginning time of day of the requested PM period. *MONTM* is a Time. *MONTM* is optional.

Output Example

M	TID-000 98-06-20 14-30-00
	001 COMPLD
	"N3-5-7-3,T1:IV-IMA,100,PRTL,FEND,,15-MIN,01-01,04-45"
;	

Errors

This message generates all of the [Default Errors](#).

RTRV-PM-ONT

Name

RTRV-PM-ONT: Retrieve Performance Monitoring Optical Network Termination

Description

Category: Performance Monitoring **Security:** Maintenance - read

This command instructs an NE to send its current set of PM data associated with a specified ONT on a GPON.

The command may be used to evaluate the system before or after NE maintenance operations. Parameters are provided to retrieve past PM data for NEs that can store a history of PM information.

This message and the other PM-related messages are based on the following assumptions about the NEs PM data collection (see GR-820-CORE):

- a. External control over the NE may be exercised in retrieving the PM data, but the NE cannot be commanded externally to change its mode of PM data collection.
- b. Accumulation periods for PM data are fixed in the NE and only the start of the PM day can be changed.
- c. All daily accumulation periods in the NE span the period from midnight to midnight, unless the accumulation period is altered by the SET-PMDAY command.
- d. All hourly accumulation periods in the NE begin and end on the hour.
- e. The duration of all accumulation periods less than an hour must be such that an integral number of periods must total exactly 1 hour, and that there be a period transition occurring on the hour.

Defined in GR-833. *Not supported in release 5.1*

Related Messages:

[DLT-AVO](#)
[DLT-IG-VDS1](#)

[DLT-GOS-ONT](#)
[DLT-ONT](#)

DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV ONT	REPT RMV RFVID
REPT RST AVO	REPT RST ONT
REPT RST RFVID	RMV-AVO
RMV-ONT	RMV-RFVID
RST-AVO	RST-ONT
RST-RFVID	RTRV-ALM-AVO
RTRV-ALM-ONT	RTRV-ALM-RFVID
RTRV-ALM-VCG	RTRV-ALM-VRP
RTRV-AVO	RTRV-COND-ONT
RTRV-COND-VCG	RTRV-COND-VRP
RTRV-GOS-ONT	RTRV-IG-VDS1
RTRV-ONT	RTRV-ONT-UA
RTRV-PROF-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
RTRV-PM-
ONT: [ TID ] :<OntAid>:[ CTAG ]::[ <MONTYPE> ] , , [ <LOCN> ] , , [ <TMPER> ] ,
[ <MONDAT> ] , [ <MONTM> ] ;
```

Input Parameters

OntAid ONT Access Identifier. The address of the GPON ONT for which the monitored parameter values are requested. *OntAid* is the AID [OntAid](#) and is listable. *OntAid* must not be null.

MONTYPE Monitored Type. This specifies the type of monitored parameter for which a value is requested. A null value retrieves all. *MONTYPE* is of type [MonitorTypeOnt](#). A null value defaults to "retrieving all".

LOCN Location. This parameter indicates the location, in reference to the entity identified by T1

port. Thus, "near end" refers to PM values obtained at the identified entity, and "far end" refers to PM values obtained at a distant entity that is connected to the identified entity. A null value retrieves both. *LOCN* is of type [Location](#). A null value defaults to "retrieving both".

TMPER	Time Period. This indicates the length of the accumulation time period to which the retrieved parameters apply. Currently 15-MIN and 1-DAY periods are supported. A null value retrieves both. <i>TMPER</i> is of type PMPPeriod . A null value defaults to "retrieving both".
MONDAT	Monitored Date (MM-DD). This parameter identifies the beginning of the PM period. It is ignored if <i>TMPER</i> is specified as 15-MIN. <i>MONDAT</i> is a Date. A null value defaults to "retrieving all".
MONTM	Monitored Time (HH-MM). This parameter identifies the beginning time of day of the requested PM period. It is ignored if <i>TMPER</i> is specified as 1-DAY. <i>MONTM</i> is a Time. A null value defaults to "retrieving all".

Input Example

```
RTRV-PM-ONT:SYS2:N3-5-2-3-44:555::BIP8,,FEND,,15-MIN,01-01,04-
45;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<OntAid>,<AIDTYPE>:<MONTYPE>,<MONVAL>,[<VLDTY>],[<LOCN>],,[<TMPER>],
[<MONDAT>],[<MONTM>]"
;"
```

Output Parameters

OntAid	ONT Access Identifier. The address of the GPON ONT which the monitored parameter values are requested. <i>OntAid</i> is the AID OntAid .
AIDTYPE	<i>AIDTYPE</i> is of type AIDType .
MONTYPE	Monitored Type. This parameter indicates the monitored type which is being retrieved. <i>MONTYPE</i> is of type MonitorTypeOnt .
MONVAL	Monitored Values. This parameter is the measured value of the monitored type. <i>MONVAL</i> is a Integer.
VLDTY	Validity. This parameter indicates the validity for historical monitoring information. It indicates whether the information for the specified time period was accumulated over the entire time period or some portion of it. <i>VLDTY</i> is of type Validity . <i>VLDTY</i> is optional.
LOCN	Location. This parameter indicates the location, where the PM values were retrieved. Thus, "near end" refers to PM values obtained at the identified entity, and "far end" refers to PM values obtained at a distant entity that is connected to the identified entity. <i>LOCN</i> is of type Location . <i>LOCN</i> is optional.
TMPER	Time Period. This parameter specifies the accumulation time period for the PM information. <i>TMPER</i> is of type PMPPeriod . <i>TMPER</i> is optional.

- MONDAT** Monitored Date (MM-DD). This parameter identifies the beginning of the PM period. *MONDAT* is a Date. *MONDAT* is optional.
- MONTM** Monitored Time (HH-MM). This parameter identifies the beginning time of day of the requested PM period. *MONTM* is a Time. *MONTM* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-5-2-3-44,ONT:BIP8,2,PRTL,FEND,,15-MIN,01-01,04-45"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-PM-T1

Name

RTRV-PM-T1: Retrieve Performance DS Facility

Description

Category: Performance Monitoring

Security: Maintenance - read

This command instructs an NE to send its current set of PM data associated with one or more T1 ports within the NE.

The command may be used to evaluate the system before or after NE maintenance operations. Parameters are provided to retrieve past PM data for NEs that can store a history of PM information.

This message and the other PM-related messages are based on the following assumptions about the NEs PM data collection (see GR-820-CORE):

- a. External control over the NE may be exercised in retrieving the PM data, but the NE cannot be commanded externally to change its mode of PM data collection.
- b. Accumulation periods for PM data are fixed in the NE and only the start of the PM day can be changed.
- c. All daily accumulation periods in the NE span the period from midnight to midnight, unless the accumulation period is altered by the SET-PMDAY command.
- d. All hourly accumulation periods in the NE begin and end on the hour.
- e. The duration of all accumulation periods less than an hour must be such that an integral number of

periods must total exactly 1 hour, and that there be a period transition occurring on the hour.

Defined in GR-833.

Related Messages:

[DLT-AP-T1](#)

[DLT-GOS-T1](#)

[ED-GOS-T1](#)

[ENT-AP-T1](#)

[ENT-GOS-T1](#)

[INIT-REG-T1](#)

[REPT ALM T1](#)

[REPT RMV T1](#)

[RLS-LPBK-T1](#)

[RST-T1](#)

[RTRV-COND-T1](#)

[RTRV-GOS-T1](#)

[DLT-CRS-T1](#)

[DLT-T1](#)

[ED-T1](#)

[ENT-CRS-T1](#)

[ENT-T1](#)

[OPR-LPBK-T1](#)

[REPT EVT T1](#)

[REPT RST T1](#)

[RMV-T1](#)

[RTRV-ALM-T1](#)

[RTRV-CRS-T1](#)

[RTRV-T1](#)

Input Format

```
RTRV-PM-
T1:[TID]:<Ds1Aid>:[CTAG]:::<MONTYPE>,,[<LOCN>],,[<TMPPER>],[<MONDAT>],
[<MONTM>];
```

Input Parameters

- Ds1Aid** T1 Port Access Identifier. The address of the T1 port which the monitored parameter values are requested. *Ds1Aid* is the AID [TwelvePortLuAid](#) and is listable. *Ds1Aid* must not be null.
- MONTYPE** Monitored Type. This specifies the type of monitored parameter for which a value is requested. A null value retrieves all. *MONTYPE* is of type [MonitorTypeT1](#). A null value defaults to "retrieving all".
- LOCN** Location. This parameter indicates the location, in reference to the entity identified by T1 port. Thus, "near end" refers to PM values obtained at the identified entity, and "far end" refers to PM values obtained at a distant entity that is connected to the identified entity. A null value retrieves both. *LOCN* is of type [Location](#). A null value defaults to "retrieving both".
- TMPPER** Time Period. This indicates the length of the accumulation time period to which the retrieved parameters apply. Currently 15-MIN and 1-DAY periods are supported. A null value retrieves both. *TMPPER* is of type [PMPPeriod](#). A null value defaults to "retrieving both".
- MONDAT** Monitored Date (MM-DD). This parameter identifies the beginning of the PM period. It is ignored if TMPPER is specified as 15-MIN. *MONDAT* is a Date. A null value defaults to "retrieving all".
- MONTM** Monitored Time (HH-MM). This parameter identifies the beginning time of day of the requested PM period. It is ignored if TMPPER is specified as 1-DAY. *MONTM* is a Time.

A null value defaults to "retrieving all".

Input Example

```
RTRV-PM-T1:SYS2:N3-5-7-3:555::CV-P,,FEND,,15-MIN,01-01,04-45;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<Ds1Aid>,[<AIDTYPE>]:<MONTYPE>,<MONVAL>,[<VLDTY>],<LOCN>,,[<TMPER>],
[<MONDAT>],[<MONTM>]"
;
```

Output Parameters

- Ds1Aid** T1 Port Access Identifier. The address of the T1 port for which the monitored parameter values retrieved. *Ds1Aid* is the AID [TwelvePortLuAid](#).
- AIDTYPE** Access Identifier Type. This parameter identifies the type of entity which the performance monitoring is associated with. *AIDTYPE* is of type [AIDType](#). *AIDTYPE* is optional.
- MONTYPE** Monitored Type. This parameter indicates the monitored type which is being retrieved, such as ES-P, SES-P, etc. *MONTYPE* is of type [MonitorTypeT1](#).
- MONVAL** Monitored Values. This parameter is the measured value of the monitored type. *MONVAL* is a Integer.
- VLDTY** Validity. This parameter indicates the validity for historical monitoring information. It indicates whether the information for the specified time period was accumulated over the entire time period or some portion of it. *VLDTY* is of type [Validity](#). *VLDTY* is optional.
- LOCN** Location. This parameter indicates the location, where the PM values were retrieved. Thus, "near end" refers to PM values obtained at the identified entity, and "far end" refers to PM values obtained at a distant entity that is connected to the identified entity. *LOCN* is of type [Location](#).
- TMPER** Time Period. This parameter specifies the accumulation time period for the PM information. *TMPER* is of type [PMPPeriod](#). *TMPER* is optional.
- MONDAT** Monitored Date (MM-DD). This parameter identifies the beginning of the PM period. *MONDAT* is a Date. *MONDAT* is optional.
- MONTM** Monitored Time (HH-MM). This parameter identifies the beginning time of day of the requested PM period. *MONTM* is a Time. *MONTM* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-5-7-3,T1:CV-P,100,PRTL,FEND,,15-MIN,01-01,04-45"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-PM-T3

Name

RTRV-PM-T3: Retrieve Performance DS Facility

Description

Category: Performance Monitoring **Security:** Maintenance - read

This command instructs an NE to send its current set of PM data associated with one or more T3 ports within the NE.

The command may be used to evaluate the system before or after NE maintenance operations. Parameters are provided to retrieve past PM data for NEs that can store a history of PM information.

This message and the other PM-related messages are based on the following assumptions about the NEs PM data collection (see GR-820-CORE):

- a. External control over the NE may be exercised in retrieving the PM data, but the NE cannot be commanded externally to change its mode of PM data collection.
- b. Accumulation periods for PM data are fixed in the NE and only the start of the PM day can be changed.
- c. All daily accumulation periods in the NE span the period from midnight to midnight, unless the accumulation period is altered by the SET-PMDAY command.
- d. All hourly accumulation periods in the NE begin and end on the hour.
- e. The duration of all accumulation periods less than an hour must be such that an integral number of periods must total exactly 1 hour, and that there be a period transition occurring on the hour.

Defined in GR-833.

Related Messages:

[DLT-GOS-T3](#)
[ED-GOS-T3](#)
[ENT-GOS-T3](#)
[INIT-REG-T3](#)
[REPT ALM T3](#)
[REPT RMV T3](#)
[RLS-LPBK-T3](#)

[DLT-T3](#)
[ED-T3](#)
[ENT-T3](#)
[OPR-LPBK-T3](#)
[REPT EVT T3](#)
[REPT RST T3](#)
[RMV-T3](#)

[RST-T3](#)
[RTRV-COND-T3](#)
[RTRV-T3](#)

[RTRV-ALM-T3](#)
[RTRV-GOS-T3](#)

Input Format

```
RTRV-PM-
T3:[TID]:<Ds3Aid>:[CTAG]:::<MONTYPE>,,[<LOCN>,,[<TMPER>],[<MONDAT>],
[<MONTM>];
```

Input Parameters

- Ds3Aid** T3 Port Access Identifier. The address of the T3 port which the monitored parameter values are requested. *Ds3Aid* is the AID [T3Aid](#) and is listable. *Ds3Aid* must not be null.
- MONTYPE** Monitored Type. This specifies the type of monitored parameter for which a value is requested. A null value retrieves all. *MONTYPE* is of type [MonitorTypeT3](#). A null value defaults to "retrieving all".
- LOCN** Location. This parameter indicates the location, in reference to the entity identified by T3 port. Thus, "near end" refers to PM values obtained at the identified entity, and "far end" refers to PM values obtained at a distant entity that is connected to the identified entity. A null value retrieves both. *LOCN* is of type [Location](#). A null value defaults to "retrieving both".
- TMPER** Time Period. This indicates the length of the accumulation time period to which the retrieved parameters apply. Currently 15-MIN and 1-DAY periods are supported. A null value retrieves both. *TMPER* is of type [PMPPeriod](#). A null value defaults to "retrieving both".
- MONDAT** Monitored Date (MM-DD). This parameter identifies the beginning of the PM period. It is ignored unless TMPER is specified as 1-DAY. *MONDAT* is a Date. A null value defaults to "retrieving all".
- MONTM** Monitored Time (HH-MM). This parameter identifies the beginning time of day of the requested PM period. It is ignored if TMPER is specified as 1-DAY. *MONTM* is a Time. A null value defaults to "retrieving all".

Input Example

```
RTRV-PM-T3:SYS2:N3-5-7-3:555::CV-L,,FEND,,15-MIN,01-01,12-00;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD

"<Ds3Aid>,[<AIDTYPE>]:<MONTYPE>,<MONVAL>,[<VLDTY>],<LOCN>,,[<TMPER>],
[<MONDAT>],[<MONTM>]"
;
```

Output Parameters

Ds3Aid	T3 Port Access Identifier. The address of the T3 port which the monitored parameter values retrieved. <i>Ds3Aid</i> is the AID T3Aid .
AIDTYPE	Access Identifier Type. This parameter identifies the type of entity which the performance monitoring is associated with. <i>AIDTYPE</i> is of type AIDType . <i>AIDTYPE</i> is optional.
MONTYPE	Monitored Type. This parameter indicates the monitored type which is being retrieved, such as ES-P, SES-P, etc. <i>MONTYPE</i> is of type MonitorTypeT3 .
MONVAL	Monitored Values. This parameter is the measured value of the monitored type. <i>MONVAL</i> is a Integer.
VLDTY	Validity. This parameter indicates the validity for historical monitoring information. It indicates whether the information for the specified time period was accumulated over the entire time period or some portion of it. <i>VLDTY</i> is of type Validity . <i>VLDTY</i> is optional.
LOCN	Location. This parameter indicates the location, where the PM values were retrieved. Thus, "near end" refers to PM values obtained at the identified entity, and "far end" refers to PM values obtained at a distant entity that is connected to the identified entity. <i>LOCN</i> is of type Location .
TMPER	Time Period. This parameter specifies the accumulation time period for the PM information. <i>TMPER</i> is of type PMPPeriod . <i>TMPER</i> is optional.
MONDAT	Monitored Date (MM-DD). This parameter identifies the beginning of the PM period. <i>MONDAT</i> is a Date. <i>MONDAT</i> is optional.
MONTM	Monitored Time (HH-MM). This parameter identifies the beginning time of day of the requested PM period. <i>MONTM</i> is a Time. <i>MONTM</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-5-7-3,T3:CV-L,100,PRTL,FEND,,15-MIN,01-01,12-00"
;

```

Errors

This message generates all of the [Default Errors](#).

RTRV-PM-VIDCHAN

Name

RTRV-PM-VIDCHAN: Retrieve Performance Monitoring Video Channel

Description

Category: Performance Monitoring**Security:** Maintenance - read

No Comment Defined.

Input Format

```
RTRV-PM-
VIDCHAN: [ TID ] :<IpAid>:[ CTAG ] ::[ <MONTYPE> ] , , , [ <TMPPER> ] , [ <MONDAT> ] ,
[ <MONTM> ] :RTRAID=<RTRAID>;
```

Input Parameters

- IpAid** *IpAid* is the AID [IpAid](#) and is listable and rangeable. *IpAid* must not be null.
- MONTYPE** *MONTYPE* is of type [MonitorTypeVidChan](#). A null value defaults to "ALL".
- TMPPER** *TMPPER* is of type [PMPPeriod](#). A null value defaults to "ALL".
- MONDAT** *MONDAT* is a Date. A null value defaults to "ALL".
- MONTM** *MONTM* is a Time. A null value defaults to "ALL".
- RTRAID** *RTRAID* is the AID [SlotLuAid](#). *RTRAID* must not be null.

Input Example

```
RTRV-PM-VIDCHAN:SYS:225.1.1.21:123::HITS,,,,15-MIN,09-14,17-
45:RTRAID=N1-1-3;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<IpAid>,[ <AIDTYPE> ] :[ <MONTYPE> ] , [ <MONVAL> ] , [ <VLDTY> ] , [ <LOCN> ] , , [ <TMPPER> ] ,
[ <MONDAT> ] , [ <MONTM> ] "
;
```

Output Parameters

- IpAid** *IpAid* is the AID [IpAid](#).
- AIDTYPE** *AIDTYPE* is of type [AIDType](#). *AIDTYPE* is optional.
- MONTYPE** *MONTYPE* is of type [MonitorTypeVidChan](#). *MONTYPE* is optional.
- MONVAL** *MONVAL* is a Integer. *MONVAL* is optional.
- VLDTY** *VLDTY* is of type [Validity](#). *VLDTY* is optional.
- LOCN** *LOCN* is of type [Location](#). *LOCN* is optional.
- TMPPER** *TMPPER* is of type [PMPPeriod](#). *TMPPER* is optional.
- MONDAT** *MONDAT* is a Date. *MONDAT* is optional.
- MONTM** *MONTM* is a Time. *MONTM* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"225.1.1.21,VIDCHAN:HITS,45,COMPL,NEND,,15-MIN,09-14,17-45"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-PON

Name

RTRV-PON: Retrieve Passive Optical Network

Description

Category: PON **Security:** Memory Admin - read

Retrieves parameters associated with a PON Port.

Defined by Calix.

Input Format

```
RTRV-PON:[TID]:<PonRngAid>:[CTAG];
```

Input Parameters

PonRngAid The PON Port Access Identifier. *PonRngAid* is the AID [FourPortLuNtwkRngAid](#) and is listable and rangeable. *PonRngAid* must not be null.

Input Example

```
RTRV-PON:SYS:N2-4-12-1:69;
```

Output Format

	SID	DATE	TIME
M	CTAG	COMPLD	

```
"<PonAid>::[[ SDBER=<SDBER>, ] [ TYPE=<TYPE>, ] [ DSDATARATE=<DSDATARATE>, ]
[ USDATARATE=<USDATARATE>, ] [ BWDSUSED=<BWDSUSED>, ] [ BWUSUSED=<BWUSUSED>, ]
[ DESC=<DESC> ] :[ <PST> , [ <SST> ]"
;
```

Output Parameters

PonAid	The PON Port Access Identifier. <i>PonAid</i> is the AID FourPortLuAid .
SDBER	Signal Degraded Bit Error Rate. The threshold value above which the Line's bit error rate constitutes a Degraded Signal. <i>SDBER</i> is of type BitErrorRateSD . <i>SDBER</i> is optional.
TYPE	The PON Type. <i>TYPE</i> is of type PonType . <i>TYPE</i> is optional.
DSDATARATE	The total downstream packet capacity in Mbit/sec. <i>DSDATARATE</i> is of type PonDataRate . <i>DSDATARATE</i> is optional.
USDATARATE	The total upstream packet capacity in Mbit/sec. <i>USDATARATE</i> is of type PonDataRate . <i>USDATARATE</i> is optional.
BWDSUSED	The downstream packet capacity used in Mbit/sec. It is possible for bandwidth used to exceed bandwidth capacity for oversubscribed traffic (e.g. UBR). <i>BWDSUSED</i> is a Integer. <i>BWDSUSED</i> is optional.
BWUSUSED	The upstream packet capacity used in Mbit/sec. It is possible for bandwidth used to exceed bandwidth capacity for oversubscribed traffic (e.g. UBR). <i>BWUSUSED</i> is a Integer. <i>BWUSUSED</i> is optional.
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String. <i>DESC</i> is optional.
PST	Primary Service State. This parameter specifies the overall service condition. <i>PST</i> is of type PrimaryState . <i>PST</i> is optional.
SST	Secondary Service State. This parameter provides additional state information that is relevant. <i>SST</i> is of type SecondaryState and is listable. <i>SST</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N2-4-12-
1:::SDBER=5,TYPE=BPON,DSDATARATE=622,USDATARATE=155,BWDSUSED=848,
    BWUSUSED=212,DESC=\ "PON1\ ":"OOS-AU,UEQ"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-PP

Name

RTRV-PP: Retrieve Pseudo Port

Description

Category: Virtual Facility **Security:** Memory Admin - read

Retrieve Pseudo Port.

Related Messages:

[ACT-PROTN-VC](#)

[DLT-CRS-VC](#)

[DLT-PP](#)

[ED-CRS-VC](#)

[ED-PROF-TRF](#)

[ENT-CRS-VP](#)

[ENT-PROF-TRF](#)

[INIT-CSTAT-VP](#)

[INJ-LPBK-VP](#)

[MV-CRS-VP](#)

[OPR-CC-VP](#)

[REPT EVT PP](#)

[REPT EVT VP](#)

[REPT RST PP](#)

[RLS-CC-VP](#)

[RST-PP](#)

[RTRV-COND-PP](#)

[RTRV-CRS-VP](#)

[RTRV-CSTAT-VP](#)

[RTRV-VTI](#)

[ACT-PROTN-VP](#)

[DLT-CRS-VP](#)

[DLT-PROF-TRF](#)

[ED-CRS-VP](#)

[ENT-CRS-VC](#)

[ENT-PP](#)

[INIT-CSTAT-VC](#)

[INJ-LPBK-VC](#)

[MV-CRS-VC](#)

[OPR-CC-VC](#)

[REPT ALM PP](#)

[REPT EVT VC](#)

[REPT RMV PP](#)

[RLS-CC-VC](#)

[RMV-PP](#)

[RTRV-ALM-PP](#)

[RTRV-CRS-VC](#)

[RTRV-CSTAT-VC](#)

[RTRV-PROF-TRF](#)

Input Format

RTRV-PP : [TID] : <PPAid> : [CTAG] ;

Input Parameters

PPAid Pseudo-port Access Identifier. *PPAid* is the AID [PpRngAid](#). *PPAid* must not be null.

Input Example

```
RTRV-PP::N1-2-3-PP1:23;
```

Output Format

```
    SID DATE TIME
M    CTAG COMPLD
    "<PPAid>::[INWARD=<INWARD>]:[<PST>],[<SST>]"
;
```

Output Parameters

PPAid Pseudo-port Access Identifier. *PPAid* is the AID [PpAid](#).

INWARD Inwards facing. Indicates if the pseudo port is inward facing (toward the backplane) or outward facing (toward the physical ports). *INWARD* is of type [BoolYN](#). *INWARD* is optional.

PST Primary Service State. This parameter specifies the overall service condition. *PST* is of type [PrimaryState](#). *PST* is optional.

SST Secondary Service State. This parameter provides additional state information that is relevant. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
    "N1-2-3-PP1::INWARD=Y:OOS-AU,SGEO"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-PPL

Name

RTRV-PPL: Retrieve Path Protection Label

Description

Category: Protection Switching

Security: Memory Admin - read

Retreive Path Protection Label information

Related Messages:

[ENT-PPL](#)
[REPT ALM PPL](#)
[RLS-PROTNSTW-PPL](#)
[RTRV-COND-PPL](#)

[OPR-PROTNSTW-PPL](#)
[REPT EVT PPL](#)
[RTRV-ALM-PPL](#)

Input Format

```
RTRV-PPL:[TID]:<PplAid>:[CTAG]::[PPLORIGIN=<PPLORIGIN>];
```

Input Parameters

- PplAid** The Path Protection Label in question. *PplAid* is the AID [PplRngAid](#) and is listable and rangeable. *PplAid* must not be null.
- PPLORIGIN** The shelf originating the PPL *PPLORIGIN* is the AID [ShelfAid](#) and is listable. A null value defaults to "ALL".

Input Example

```
RTRV-PPL:SYS1:N1-2-3-4-5-PPL6-5-200:CTAG::PPLORIGIN=N6-5;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<PplAid>::[ [ XCONNCT=<XCONNCT>, ] [ WKGRTELST=<WKGRTELST>, ]
[ PROTRTELST=<PROTRTELST> ] ]"
;
```

Output Parameters

- PplAid** *PplAid* is the AID [PplUnbrAid](#).
- XCONNCT** Number of cross-connects using the PPL *XCONNCT* is a Integer. *XCONNCT* is optional.
- WKGRTELST** List of route elements in the form of source and drop shelves on the working path. *WKGRTELST* is the AID [StsAid](#) and is listable. *WKGRTELST* is optional.
- PROTRTELST** List of route elements in the form of source and drop shelves on the protect path. *PROTRTELST* is the AID [StsAid](#) and is listable. *PROTRTELST* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-2-3-4-5-PPL6-5-200::XCONNCT=4, WKGRTELST=N2-3-4-5-6&N3-4-
5-6-7,
PROTRTELST=N2-3-4-6-6&N3-4-5-7-7;"
```

Errors

This message generates all of the [Default Errors](#).

RTRV-PPPOEAC

Name

RTRV-PPPOEAC: Retrieve PPPOEAC

Description

Category: PPPOE **Security:** Memory Admin - read

The Access Concentrator is a device upstream from the subscriber that terminates a PPPoE connection. The PPPoE Relay Agent learns of the location and address of Access Concentrators from the PPPoE Discovery packets that it intercepts. This command retrieves the information about the access concentrators.

Input Format

```
RTRV-PPPOEAC:[TID]:<MAC>:[CTAG]:::VBAID=<VBAID>,[[VLAN=<VLAN>,]
[L2IFAIID=<L2IFAIID>]];
```

Input Parameters

MAC MAC Address : This is the Ethernet Address of the AC as learned from the PPPoE Discovery packet *MAC* is the AID [MacRngAid](#) and is listable. *MAC* must not be null.

VBAID Virtual Bridge AID. This parameter is used to specify the target of the command. *VBAID* is the AID [PppoAcRtrAid](#). *VBAID* must not be null.

VLAN The request may be filtered to a specific VLAN. *VLAN* is the AID [PacketVlanAid](#). A null value is equivalent to "ALL".

L2IFAIID The request can be filtered on Layer 2 Interface Access Identifier.

This can be one of the following :

- subscriber port on which this Host was discovered

OR

- AID of the remote endpoint (on an access LU card) of the subscriber VC *L2IFAIID* is the AID [PppoehostId](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-PPPOEAC:SYS3:01-23-45-67-89-AB:229:::VBAID=N3-2-
VB1,VLAN=N3-2-VB1-VLAN2,
L2IFAID=N3-2-8-CH-VP1-VC101;
```

Output Format

```
 SID DATE TIME
M CTAG COMPLD

"MAC=<MAC>::[ [ VBAID=<VBAID>, ] [ VLAN=<VLAN>, ] [ L2IFAID=<L2IFAID>, ]
[ ACNAME=<ACNAME>, ] [ SVCNAME=<SVCNAME> ] ]"
;
```

Output Parameters

- MAC** MAC Address : This is the Ethernet Address of the AC as learned from the PPPoE Discovery packet *MAC* is the AID [MacAid](#).
- VBAID** Virtual Bridge AID. *VBAID* is the AID [VbAid](#). *VBAID* is optional.
- VLAN** *VLAN* is the AID [PacketVlanAid](#). *VLAN* is optional.
- L2IFAID** Layer 2 Interface Access Identifier. *L2IFAID* is the AID [L2IfAid](#). *L2IFAID* is optional.
- ACNAME** This is a string containing the name advertised by the AC in PPPoE Discovery packets *ACNAME* is a String. *ACNAME* is optional.
- SVCNAME** This is a string containing the name of a service advertised by the AC in PPPoE Discovery packets *SVCNAME* is a String. *SVCNAME* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"MAC=01-23-45-67-89-AB:::VBAID=N3-2-VB1,VLAN=N3-2-VB1-VLAN2,
L2IFAID=N3-2-8-CH-VP1-
VC101,ACNAME=ACCCONCT,SVCNAME=SVCNAME1"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-PPPOEHOST

Name

RTRV-PPPOEHOST: Retrieve PPPOEHOST

Description

Category: PPPOE **Security:** Memory Admin - read

The PPPoE Subscriber Host is the CPE device for the subscriber. It terminates the "host" end of the PPPoE connection. The PPPoE Relay Agent learns of the location and address of the Host from the PPPoE Discovery packets that it intercepts. The PPPoE Relay Agent stores information about Hosts in a RAM-based data structure. This command is used to retrieve the PPPoE host information.

Input Format

```
RTRV-PPPOEHOST:[TID]:<MACAID>:[CTAG]:::[PPPENCAP=<PPPENCAP>]
,VBAID=<VBAID>,[[VLAN=<VLAN>,[L2IFAID=<L2IFAID>]];
```

Input Parameters

MACAID This is the Ethernet Address of the Host as learned from the PPPoE Discovery packet
MACAID is the AID [MacRngAid](#) and is listable. *MACAID* must not be null.

PPPENCAP Filter on PPP Encapsulation Type. *PPPENCAP* is of type [PppEncapsulation](#). A null value is equivalent to "ALL".

VBAID Virtual Bridge AID. This parameter is used to specify the target of the command. *VBAID* is the AID [PppoertrAid](#). *VBAID* must not be null.

VLAN The request may be filtered to a specific VLAN. *VLAN* is the AID [PacketVlanAid](#). A null value is equivalent to "ALL".

L2IFAID Layer 2 Interface Access Identifier *L2IFAID* is the AID [PppoehostId](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-PPPOEHOST:SYS3:01-23-45-67-89-
AB:229:::PPPENCAP=PPPOE,VBAID=N3-2-VB8,
VLAN=N3-2-VB8-VLAN1,L2IFAID=N1-1-1-1-CH0-VP0-VC101;
```

Output Format

	SID	DATE	TIME
M	CTAG	COMPLD	
"MAC=<MACAID>:::[PPPENCAP=<PPPENCAP>,[VBAID=<VBAID>,[VLAN=<VLAN>,[L2IFAID=<L2IFAID>,[SESSION=<SESSION>,[PPPOASTATE=<PPPOASTATE>]]]]]			;

Output Parameters

MACAID This is the Ethernet Address of the Host as learned from the PPPoE Discovery packet

MACAID is the AID [MacAid](#).

PPPENCAP	PPP Encapsulation Type. <i>PPPENCAP</i> is of type PppEncapsulation . <i>PPPENCAP</i> is optional.
VBAID	Virtual Bridge AID. <i>VBAID</i> is the AID VbAid . <i>VBAID</i> is optional.
VLAN	<i>VLAN</i> is the AID PacketVlanAid . <i>VLAN</i> is optional.
L2IFAIID	Layer 2 Interface Access Identifier - This can be one of the following : - subscriber port on which this Host was discovered OR - AID of the remote endpoint (on an access LU card) of the subscriber VC <i>L2IFAIID</i> is the AID L2IfAid . <i>L2IFAIID</i> is optional.
SESSION	<i>SESSION</i> is of type BoolYN . <i>SESSION</i> is optional.
PPPOASTATE	<i>PPPOASTATE</i> is of type PppoaState . <i>PPPOASTATE</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"MAC=01-23-45-67-89-AB::PPPENCAP=PPPOE,VBAID=N3-2-
VB8,VLAN=N3-2-VB8-VLAN1,
L2IFAIID=N1-1-1-1-CH0-VP0-
VC101,SESSION=Y,PPPOASTATE=CONNECTED"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-PPPOESESS

Name

RTRV-PPPOESESS: Retrieve PPPOESESS

Description

Category: PPPOE **Security:** Memory Admin - read

An Active PPPoE Session is a session that has successfully completed the Discovery Phase and has entered the Session Phase, during which actual data packets are fast-path forwarded by the NPU subsystem. The PPPoE Relay Agent learns of sessions from the PPPoE Discovery packets that it intercepts. The PPPoE Relay Agent stores information about the sessions in a RAM-based data structure. This command retrieves the PPPoE Session information.

Input Format

```
RTRV-PPPOESESS:[TID]:<MACAID>:[CTAG]::[<ACSESS>]:[PPPENCAP=<PPPENCAP>]
,VBAID=<VBAID>,[[VLAN=<VLAN>],[HOSTMAC=<HOSTMAC>],[L2IFAID=<L2IFAID>]];
```

Input Parameters

- MACAID** This is the Ethernet Address of the AC as learned from the PPPoE Discovery packet
MACAID is the AID [MacRngAid](#) and is listable. *MACAID* must not be null.
- ACSESS** The Session Id is a 16 bit number produced by the AC during the discovery phase. If MAC Address is set to ALL, AC Sess should be set to NULL. *ACSESS* is a Integer. A null value is equivalent to "ALL".
- PPPENCAP** Filter on PPP Encapsulation Type. *PPPENCAP* is of type [PppEncapsulation](#). A null value is equivalent to "ALL".
- VBAID** Virtual Bridge AID. This parameter is used to specify the target of the command. *VBAID* is the AID [PppoertrAid](#). *VBAID* must not be null.
- VLAN** The request may be filtered to a specific VLAN. *VLAN* is the AID [PacketVlanAid](#). A null value is equivalent to "ALL".
- HOSTMAC** This is the Ethernet Address of the Host as learned from the PPPoE Discovery packet
HOSTMAC is the AID [MacAid](#). A null value is equivalent to "ALL".
- L2IFAID** Layer 2 Interface Access Identifier - This can be one of the following : - On input, this can be a subscriber port or a GE2p physical port. On output, this is the port on which the Host was discovered OR - AID of the remote endpoint (on an access LU card) of the subscriber VC *L2IFAID* is the AID [PppoehostId](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-PPPOESESS:SYS3:01-23-45-67-89-
AB:229::12:PPPENCAP=PPPOE,VBAID=N3-2-VB8,
VLAN=N3-2-VB8-VLAN1,HOSTMAC=01-23-45-67-89-AB,
L2IFAID=N1-1-1-1-CH0-VP0-VC101;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD

"<MACAID>:<ACSESS>:[[PPPENCAP=<PPPENCAP>],[VBAID=<VBAID>],[VLAN=<VLAN>],
[HOSTMAC=<HOSTMAC>],[L2IFAID=<L2IFAID>],[PPPOESTATE=<PPPOESTATE>],
[PPPOASTATE=<PPPOASTATE>],[PADRTS=<PADRTS>],[PADSTS=<PADSTS>],
[ACNAME=<ACNAME>],[SVCNAME=<SVCNAME>],[RSESSIONID=<RSESSIONID>]]"
;
```

Output Parameters

- MACAID** This is the Ethernet Address of the Access Concentrator as learned from the PPPoE Discovery packet *MACAID* is the AID [MacAid](#).
- ACSESS** The Session Id is a 16 bit number produced by the AC during the discovery phase *ACSESS* is a Integer.

PPPENCAP	PPP Encapsulation Type. <i>PPPENCAP</i> is of type PppEncapsulation . <i>PPPENCAP</i> is optional.
VBAID	Virtual Bridge AID. <i>VBAID</i> is the AID VbAid . <i>VBAID</i> is optional.
VLAN	<i>VLAN</i> is the AID PacketVlanAid . <i>VLAN</i> is optional.
HOSTMAC	This is the Ethernet Address of the Host as learned from the PPPoE Discovery packet <i>HOSTMAC</i> is the AID MacAid . <i>HOSTMAC</i> is optional.
L2IFAIID	Layer 2 Interface Access Identifier - This can be one of the following : - On input, this can be a subscriber port or a GE2p physical port. On output, this is the port on which the Host was discovered OR - AID of the remote endpoint (on an access LU card) of the subscriber VC <i>L2IFAIID</i> is the AID L2IfAid . <i>L2IFAIID</i> is optional.
PPPOESTATE	The current state of the session for a Host Record <i>PPPOESTATE</i> is of type PPPoESessionState . <i>PPPOESTATE</i> is optional.
PPPOASTATE	The state of the generated PPPoE session for PPPoA translations <i>PPPOASTATE</i> is of type PppoaState . <i>PPPOASTATE</i> is optional.
PADRTS	Timestamp for last PADR received from Host <i>PADRTS</i> is a String. <i>PADRTS</i> is optional.
PADSTS	Timestamp for last PADS received from Access Concentrator <i>PADSTS</i> is a String. <i>PADSTS</i> is optional.
ACNAME	The Name as advertised by the Access Concentrator <i>ACNAME</i> is a String. <i>ACNAME</i> is optional.
SVCNAME	The Service Name as requested by the Host. <i>SVCNAME</i> is a String. <i>SVCNAME</i> is optional.
RSESSIONID	Relay Session Identifier (as detected from some peer PPPoE Relay Agent). Only present in output if seen in Discovery packets for this session <i>RSESSIONID</i> is a String. <i>RSESSIONID</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
  "01-23-45-67-89-AB:12:PPPENCAP=PPPOE,VBAID=N3-2-VB8,VLAN=N3-
2-VB8-VLAN1,
  HOSTMAC=01-23-45-67-89-AB,L2IFAIID=N1-1-1-1-CH0-VP0-VC101,
  PPPOESTATE=PADR,PPPOASTATE=CONN_PADT,PADRTS="05-10-22 22-
55-00",
  PADSTS="05-10-22 22-55-
00",ACNAME=ACCSNAME,SVCNAME=SVCNAME1,
  RSESSIONID=123456"
;

```

Errors

This message generates all of the [Default Errors](#).

RTRV-PROF-ETH

Name

RTRV-PROF-ETH: RTRV PROF ETH

Description

Category: Ethernet **Security:** Memory Admin - read

Retrieve Profile - Ethernet.

Used to retrieve Ethernet traffic profiles.

Related Messages:

DLT-AGG	DLT-AGG-ACL
DLT-AGG-PORT	DLT-ETH
DLT-ETH-ACL	DLT-GOS-ETH
DLT-LSWITCH	DLT-LSWITCH-PORT
DLT-PROF-ETH	DLT-VLAN
DLT-VLAN-PORT	DLT-VLAN-VBPORT
ED-ETH	ED-GOS-ETH
ED-VLAN	ED-VLAN-PORT
ED-VLAN-VBPORT	ENT-AGG
ENT-AGG-ACL	ENT-AGG-PORT
ENT-ETH	ENT-ETH-ACL
ENT-GOS-ETH	ENT-LSWITCH
ENT-LSWITCH-PORT	ENT-PROF-ETH
ENT-VLAN	ENT-VLAN-PORT
ENT-VLAN-VBPORT	INIT-LSWITCH
INIT-STAT-ETH	REPT ALM ETH
REPT EVT ETH	REPT RMV ETH
REPT RST ETH	RMV-ETH
RST-ETH	RTRV-AGG
RTRV-AGG-ACL	RTRV-AGG-PORT
RTRV-ALM-ETH	RTRV-COND-ETH
RTRV-ETH	RTRV-ETH-ACL
RTRV-GOS-ETH	RTRV-LSWITCH
RTRV-LSWITCH-PORT	RTRV-PM-ETH
RTRV-STAT-ETH	RTRV-VLAN
RTRV-VLAN-PORT	RTRV-VLAN-VBPORT

Input Format

RTRV-PROF-ETH:[TID]:<EthProfAid>:[CTAG];
--

Input Parameters

EthProfAid Ethernet Profile Access Identifier. *EthProfAid* is the AID [EthProfRngAid](#) and is listable and rangeable. *EthProfAid* must not be null.

Input Example

```
RTRV-PROF-ETH::5:223;
```

Output Format

```
    SID DATE TIME
M  CTAG COMPLD
  "<EthProfAid>::[[BW=<BW>,][CMSID=<CMSID>]]"
;
```

Output Parameters

EthProfAid Ethernet Profile Access Identifier. *EthProfAid* is the AID [EthProfAid](#).

BW BandWidth. *BW* is of type [XlanBw](#). *BW* is optional.

CMSID CMS ID. If defined as a CMS global profile, this attribute shows that profile ID. *CMSID* is a Integer. *CMSID* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "5::BW=6,CMSID=3"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-PROF-IKE

Name

RTRV-PROF-IKE: Retrieve Profile IKE

Description

Category: TDM Services **Security:** Memory Admin - read

No Comment Defined.

Input Format

```
RTRV-PROF-IKE:[TID]:<IkeProfAid>:[CTAG];
```

Input Parameters

IkeProfAid *IkeProfAid* is the AID [IkeProfRngAid](#). *IkeProfAid* must not be null.

Input Example

```
RTRV-PROF-IKE:SYS:4:876;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD

"<IkeProfAid>::[[VER=<VER>,[AUTH=<AUTH>,[KEY=<KEY>,[ENC=<ENC>,
[HASH=<HASH>,[DH=<DH>,[LIFESEC=<LIFESEC>,[IPSECMODE=<IPSECMODE>,
[IPSECENC=<IPSECENC>,[IPSECHASH=<IPSECHASH>,[IPSECPFS=<IPSECPFS>,
[IPSECLIFESEC=<IPSECLIFESEC>,[DESC=<DESC>]]"
;
```

Output Parameters

IkeProfAid	<i>IkeProfAid</i> is the AID IkeProfProvAid .
VER	<i>VER</i> is of type IkeProtocolVersion . <i>VER</i> is optional.
AUTH	<i>AUTH</i> is of type IkeAuthType . <i>AUTH</i> is optional.
KEY	<i>KEY</i> is a String. <i>KEY</i> is optional.
ENC	<i>ENC</i> is of type CipherType . <i>ENC</i> is optional.
HASH	<i>HASH</i> is of type HashType . <i>HASH</i> is optional.
DH	<i>DH</i> is of type DHGroup . <i>DH</i> is optional.
LIFESEC	<i>LIFESEC</i> is a Integer. <i>LIFESEC</i> is optional.
IPSECMODE	<i>IPSECMODE</i> is of type IpSecEncapMode . <i>IPSECMODE</i> is optional.
IPSECENC	<i>IPSECENC</i> is of type CipherType . <i>IPSECENC</i> is optional.
IPSECHASH	<i>IPSECHASH</i> is of type HashType . <i>IPSECHASH</i> is optional.
IPSECPFS	<i>IPSECPFS</i> is of type DHGroup . <i>IPSECPFS</i> is optional.

IPSECLIFESEC *IPSECLIFESEC* is a Integer. *IPSECLIFESEC* is optional.

DESC DESCription. A user-settable description field, up to 31 characters. *DESC* is a String. *DESC* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD

"4::VER=AUTO,AUTH=PSK_STR,KEY=SHAREDKEY,ENC=3DES,HASH=MD5,DH=DH1,
LIFESEC=3600,IPSECMODE=TRANSPORT_ESP,IPSECENC=CAST,IPSECHASH=MD5,
IPSECPFS=DH1,IPSECLIFESEC=3600,DESC=\\"MYIKEPROF\\""
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-PROF-ONT

Name

RTRV-PROF-ONT: Retrieve Profile Optical Network Termination

Description

Category: PON **Security:** Memory Admin - read

Retrieve Profile - Optical Network Termination.

Used to retrieve ONT profiles.

Related Messages:

[DLT-AVO](#)

[DLT-GOS-ONT](#)

[DLT-IG-VDS1](#)

[DLT-ONT](#)

[DLT-PROF-ONT](#)

[DLT-RFVID](#)

[DLT-VCG](#)

[DLT-VRP](#)

[ED-AVO](#)

[ED-GOS-ONT](#)

[ED-ONT](#)

[ED-PROF-ONT](#)

[ED-RFVID](#)

[ED-VCG](#)

[ED-VRP](#)

[ENT-AVO](#)

[ENT-GOS-ONT](#)

[ENT-IG-VDS1](#)

[ENT-ONT](#)

[ENT-PROF-ONT](#)

ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV ONT	REPT RMV RFVID
REPT RST AVO	REPT RST ONT
REPT RST RFVID	RMV-AVO
RMV-ONT	RMV-RFVID
RST-AVO	RST-ONT
RST-RFVID	RTRV-ALM-AVO
RTRV-ALM-ONT	RTRV-ALM-RFVID
RTRV-ALM-VCG	RTRV-ALM-VRP
RTRV-AVO	RTRV-COND-ONT
RTRV-COND-VCG	RTRV-COND-VRP
RTRV-GOS-ONT	RTRV-IG-VDS1
RTRV-ONT	RTRV-ONT-UA
RTRV-PM-ONT	RTRV-RFVID
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
RTRV-PROF-ONT:[TID]:<OntProfAid>:[CTAG];
```

Input Parameters

OntProfAid The access identifier(s) of profiles to retrieve. *OntProfAid* is the AID [OntId3](#) and is listable and rangeable. *OntProfAid* must not be null.

Input Example

```
RTRV-PROF-ONT:SYS:2:125;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<OntProfAid>:: [ [ VENDOR=<VENDOR>, ] [ NUMPOTS=<NUMPOTS>, ] [ NUMDS1=<NUMDS1>, ]
[ NUMGETH=<NUMGETH>, ] [ NUMETH=<NUMETH>, ] [ NUMHPNA=<NUMHPNA>, ]
[ NUMRFVID=<NUMRFVID>, ] [ CMSID=<CMSID>, ] [ DESC=<DESC> ] ]"
;
```

Output Parameters

OntProfAid	The access identifier of the retrieved ONT profile. <i>OntProfAid</i> is the AID OntId2 .
VENDOR	The Vendor ID for ONTs using this profile. This is a string up to 4 characters long. <i>VENDOR</i> is a String. <i>VENDOR</i> is optional.
NUMPOTS	The number of POTS ports supported on the ONT. <i>NUMPOTS</i> is a Integer. <i>NUMPOTS</i> is optional.
NUMDS1	The number of DS1 ports supported on the ONT. <i>NUMDS1</i> is a Integer. <i>NUMDS1</i> is optional.
NUMGETH	The number of Gigabit Ethernet ports supported on the ONT. <i>NUMGETH</i> is a Integer. <i>NUMGETH</i> is optional.
NUMETH	The number of Ethernet ports supported on the ONT. <i>NUMETH</i> is a Integer. <i>NUMETH</i> is optional.
NUMHPNA	The number of HPNA Ethernet ports supported on the ONT. <i>NUMHPNA</i> is a Integer. <i>NUMHPNA</i> is optional.
NUMRFVID	The number of RF Video (COAX) output ports supported on the ONT. <i>NUMRFVID</i> is a Integer. <i>NUMRFVID</i> is optional.
CMSID	CMS ID. If defined as a CMS global profile, this attribute shows that profile ID. <i>CMSID</i> is a Integer. <i>CMSID</i> is optional.
DESC	A user-settable description field for this profile, of up to 31 characters. <i>DESC</i> is a String. <i>DESC</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD

"2::VENDOR="CXNK",NUMPOTS=8,NUMDS1=2,NUMGETH=0,NUMETH=2,NUMHPNA=0,
NUMRFVID=1,CMSID=8,DESC="SBU"
;"
```

Errors

This message generates all of the [Default Errors](#).

RTRV-PROF-TRF

Name

RTRV-PROF-TRF: Retrieve Profile Traffic

Description

Category: Virtual Facility

Security: Memory Admin - read

Retrieves parameters associated with a Traffic Profile.

The following table shows the relationship between Class of Service and other profile parameters.

	CBR	UBR	UBR+	GFR	VBRRT	VBRNRT
CDVT *	Integer	N/A	N/A	Integer	Integer	Integer
PCR01 **	Non-Zero	Non-Zero	Non-Zero	Non-Zero	Non-Zero	Non-Zero
SCR0	N/A	N/A	N/A	N/A	Integer	Integer
SCR01	N/A	N/A	N/A	N/A	Integer	Integer
MCR	N/A	N/A	N/A	PCR01	N/A	N/A
MBS	N/A	N/A	N/A	Non-Zero	Non-Zero	Non-Zero
MFS	N/A	N/A	N/A	Non-Zero	N/A	N/A
CELLTAG	N/A	N/A	N/A	Y/N***	Y/N	Y/N
POLICE	Y/N	Y/N****	Y/N****	Y/N	Y/N	Y/N

* CDVT must be at least $(1/\text{PCR01}) * 1000000$. Typical values would be around 5/PCR for ATM transport and 32/PCR for Video or IP.

** PCR01 is calculated by taking the rate (in bits per second) and dividing by 424.

*** Cell tagging for GFR traffic profiles will be supported in a future C7 release. Currently CELLTAG is ignored for GFR profiles.

**** Policing for UBR or UBR+ traffic profiles will be supported in a future C7 release. Currently POLICE, PCR01, CDVT and CELLTAG are ignored for UBR and UBR+ profiles

Defined by Calix Networks

Related Messages:

[ACT-PROTN-VC](#)

[DLT-CRS-VC](#)

[DLT-PP](#)

[ED-CRS-VC](#)

[ED-PROF-TRF](#)

[ENT-CRS-VP](#)

[ENT-PROF-TRF](#)

[INIT-CSTAT-VP](#)

[INJ-LPBK-VP](#)

[MV-CRS-VP](#)

[ACT-PROTN-VP](#)

[DLT-CRS-VP](#)

[DLT-PROF-TRF](#)

[ED-CRS-VP](#)

[ENT-CRS-VC](#)

[ENT-PP](#)

[INIT-CSTAT-VC](#)

[INJ-LPBK-VC](#)

[MV-CRS-VC](#)

[OPR-CC-VC](#)

OPR-CC-VP	REPT ALM PP
REPT EVT PP	REPT EVT VC
REPT EVT VP	REPT RMV PP
REPT RST PP	RLS-CC-VC
RLS-CC-VP	RMV-PP
RST-PP	RTRV-ALM-PP
RTRV-COND-PP	RTRV-CRS-VC
RTRV-CRS-VP	RTRV-CSTAT-VC
RTRV-CSTAT-VP	RTRV-PP
RTRV-VTI	

Input Format

```
RTRV-PROF-TRF:[TID]:<TrfProfAid>:[CTAG]:::[INTERNAL=<INTERNAL>];
```

Input Parameters

- TrfProfAid** Traffic Profile Access Identifier. The address of a specific entry in Traffic Profile table to be retrieved. *TrfProfAid* is the AID [TrfId1](#) and is listable and rangeable. *TrfProfAid* must not be null.
- INTERNAL** Traffic profiles for Internal Cross Connects. If present, this parameter specifies the retrieval of otherwise hidden traffic profiles used for cross connects created internally by the C7. It is intended for use only by system experts or C7 support personnel. *INTERNAL* is of type [InternalCrsTypes](#) and is listable. A null value defaults to "NONE".

Input Example

```
RTRV-PROF-TRF:SYS3:4:48:::INTERNAL=ALL;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD

"<TrfProfAid>::[[COS=<COS>,][CDVT=<CDVT>,][PCR01=<PCR01>,][SCR0=<SCR0>,]
[SCR01=<SCR01>],[MCR=<MCR>],[APP=<APP>],[MBS=<MBS>],[MFS=<MFS>,
[CELLTAG=<CELLTAG>],[POLICE=<POLICE>],[ACTIVE=<ACTIVE>],[CMSID=<CMSID>,
[DESC=<DESC>]]"
;
```

Output Parameters

- TrfProfAid** Traffic Profile Access Identifier. The address of a specific entry in Traffic Profile table retrieved. *TrfProfAid* is the AID [TrfId1](#).
- COS** Class of Service. This parameter indicates the general characteristics of the service. *COS* is of type [ClassOfService](#). *COS* is optional.
- CDVT** Cell Delay Variation Tolerance. This parameter indicates the maximum variance in cell

delay that is acceptable. The units are microseconds. The parameter is applicable to the CBR, RTVBR, and GFR COSs. Minimum CDVT should be at least 1/(peak cell rate) *CDVT* is a Integer. *CDVT* is optional.

PCR01	Peak Cell Rate. This parameter identifies the fastest rate at which back to back cells of a given ATM connection arrive. The rate is specified in cells per second. This parameter is applicable for all the supported COSs. <i>PCR01</i> is a Integer. <i>PCR01</i> is optional.
SCR0	Sustainable Cell Rate for cell loss priority 0. This parameter indicates the maximum average rate of the connection over its lifetime for cells that do not have their CLP bit set. The rate is specified in cells per second. The parameter is reported only for VBR COSs. <i>SCR0</i> is a Integer. <i>SCR0</i> is optional.
SCR01	Sustainable Cell Rate for cell loss priority 0 and 1. This parameter indicates the maximum average rate of the connection over its lifetime for cells regardless of their CLP bit setting. The rate is specified in cells per second. The parameter is reported only for VBR COSs. <i>SCR01</i> is a Integer. <i>SCR01</i> is optional.
MCR	Minimum Cell Rate. This parameter specifies a guaranteed minimum cell rate that the connection will support. The rate is specified in cells per second. This parameter is reported only for the GFR COS. <i>MCR</i> is a Integer. <i>MCR</i> is optional.
APP	Application ID. <i>APP</i> is of type ApplicationId . <i>APP</i> is optional.
MBS	Maximum Burst Size. This parameter specifies maximum number of consecutive cells that the source may send at the PCR before the cells are tagged or discarded. This parameter is reported only for the VBR and GFR COSs. <i>MBS</i> is a Integer. <i>MBS</i> is optional.
MFS	Maximum Frame Size. The maximum number of cells in a frame. This parameter is reported only for the GFR COS. <i>MFS</i> is a Integer. <i>MFS</i> is optional.
CELLTAG	CELL TAGging. This parameter specifies whether the cells that exceed the specification should be tagged with CLP=1. The parameter is applicable to the GFR, UBR, and VBR COSs. <i>CELLTAG</i> is of type BoolYN . <i>CELLTAG</i> is optional.
POLICE	Policing. Indicates whether rate policing is turned on. Note: the extra processing required to support policing will result in a total available bandwidth reduction of approximately 20%. <i>POLICE</i> is of type BoolYN . <i>POLICE</i> is optional.
ACTIVE	This parameter indicates that the profile may be used for new cross-connect provisioning. A missing ACTIVE response parameter should be interpreted as "ACTIVE=Y". <i>ACTIVE</i> is of type BoolYN . <i>ACTIVE</i> is optional.
CMSID	CMS ID. If defined as a CMS global profile, this attribute shows that profile ID. <i>CMSID</i> is a Integer. <i>CMSID</i> is optional.
DESC	A string description of this object, up to 11 characters in length. <i>DESC</i> is a String. <i>DESC</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD

"4::COS=GFR,CDVT=30,PCR01=45,SCR0=321,SCR01=333,MCR=123,APP=VIDCHNL,MBS=30,
MFS=200,CELLTAG=Y,POLICE=Y,ACTIVE=Y,CMSID=43,DESC=DESC"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-RADIUS

Name

RTRV-RADIUS: Retrieve RADIUS

Description

Category: Security **Security:** Memory Admin - read

This command is used to retrieve RADIUS client provisioning. C7 will use remote user authentication via RADIUS as determined by system security configuration (see ED-SYS-SECU).

Related Messages:

[ALW-MSG-SECU](#)
[CANC-CID-SECU](#)
[DLT-TMPLT-SECU](#)
[ED-RADIUS](#)
[ED-TMPLT-SECU](#)
[ENT-TMPLT-SECU](#)
[INH-MSG-SECU](#)
[REPT ALM SECU](#)
[RTRV-ALM-SECU](#)
[RTRV-STATUS](#)
[RTRV-TMPLT-SECU](#)

[ALW-USER-SECU](#)
[CANC-SES-SECU](#)
[DLT-USER-SECU](#)
[ED-SYS-SECU](#)
[ED-USER-SECU](#)
[ENT-USER-SECU](#)
[INH-USER-SECU](#)
[REPT EVT SECU](#)
[RTRV-COND-SECU](#)
[RTRV-SYS-SECU](#)
[RTRV-USER-SECU](#)

Input Format

```
RTRV-RADIUS:[TID]::[CTAG];
```

Input Example

```
RTRV-RADIUS:SYS3::46;
```

Output Format

	SID	DATE	TIME
M	CTAG	COMPLD	

```
" [ [ AMP=<AMP> , ] [ AMP2=<AMP2> , ] [ RADIP=<RADIP> , ] [ RADPORT=<RADPORT> , ]
  [ RAD2IP=<RAD2IP> , ] [ RAD2PORT=<RAD2PORT> , ] [ SECRET=<SECRET> , ]
  [ TMOUT=<TMOUT> , ] [ RETRIES=<RETRIES> ] ]"
;
```

Output Parameters

AMP	Primary AMP to be used as a RADIUS client. This AMP should have IP connectivity to the RADIUS server. <i>AMP</i> is the AID MsNoneAid . <i>AMP</i> is optional.
AMP2	Alternate (fallback) AMP to use for RADIUS client. This AMP should have IP connectivity to the RADIUS server. <i>AMP2</i> is the AID MsNoneAid . <i>AMP2</i> is optional.
RADIP	IP address of the primary RADIUS server. <i>RADIP</i> is the AID IpAid . <i>RADIP</i> is optional.
RADPORT	UDP port for the primary RADIUS server. <i>RADPORT</i> is a Integer. <i>RADPORT</i> is optional.
RAD2IP	IP address of the alternate RADIUS server. <i>RAD2IP</i> is the AID IpAid . <i>RAD2IP</i> is optional.
RAD2PORT	UDP port for the alternate RADIUS server. <i>RAD2PORT</i> is a Integer. <i>RAD2PORT</i> is optional.
SECRET	The "shared secret" known to both RADIUS client and server. On output, this parameter will simply show "provisioned" or "not provisioned". <i>SECRET</i> is a String. <i>SECRET</i> is optional.
TMOUT	Timeout in seconds when waiting for a response from the RADIUS server. <i>TMOUT</i> is a Integer. <i>TMOUT</i> is optional.
RETRIES	Number of times to retry a request after timeout. <i>RETRIES</i> is a Integer. <i>RETRIES</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"AMP=N1-1-MS,AMP2=N1-2-MS,RADIP=209.205.171.22,RADPORT=1812,
RAD2IP=209.206.171.22,RAD2PORT=1812,SECRET="ARADSHAREDSECRET",TMOUT=20,
RETRIES=3"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-RFVID

Name

RTRV-RFVID: Retrieve Rf-Video Port

Description

Category: PON **Security:** Memory Admin - read

Retrieves parameters associated with a Rf-Video facility.

Defined by Calix.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV ONT	REPT RMV RFVID
REPT RST AVO	REPT RST ONT
REPT RST RFVID	RMV-AVO
RMV-ONT	RMV-RFVID
RST-AVO	RST-ONT
RST-RFVID	RTRV-ALM-AVO
RTRV-ALM-ONT	RTRV-ALM-RFVID
RTRV-ALM-VCG	RTRV-ALM-VRP
RTRV-AVO	RTRV-COND-ONT
RTRV-COND-VCG	RTRV-COND-VRP
RTRV-GOS-ONT	RTRV-IG-VDS1
RTRV-ONT	RTRV-ONT-UA
RTRV-PM-ONT	RTRV-PROF-ONT
RTRV-STAT-HPNA	RTRV-STAT-RFR
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

```
RTRV-RFVID:[TID]:<OntPortAid>:[CTAG];
```

Input Parameters

OntPortAid Rf-Video Port Access Identifier. The address of the RFVID port. (The ONT port number must be equal to 1.) *OntPortAid* is the AID [OntPortNtwkRngAid](#). *OntPortAid* must not be null.

Input Example

```
RTRV-RFVID:SYS:N2-4-6-1-18-1:345;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<OntPortAid>:::[ENONBAT=<EONBAT>,][DESC=<DESC>]":[<PST>],[<SST>]"
;"
```

Output Parameters

OntPortAid Rf-Video Port Access Identifier. The address of the RFVID port *OntPortAid* is the AID [OntPortAid](#).

EONBAT For ONT ports, this parameter specifies the behavior the port when the ONT is running on battery backup, and overrides the default (ONTRFVIDONBAT) specified by ED-SYS. *This feature is enabled in C7 release 5.2* *EONBAT* is of type [OntPortPwrOpt](#). *EONBAT* is optional.

DESC DESCription. A user-settable description field, up to 31 characters. *DESC* is a String. *DESC* is optional.

PST Primary Service State. This parameter specifies the overall service condition. *PST* is of type [PrimaryState](#). *PST* is optional.

SST Secondary Service State. This parameter provides additional state information that is relevant. *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N2-5-6-1-18-1::ENONBAT=USEDEF,DESC=\\"DESCRIPTION\\":IS-
NR,ADA"
;"
```

Errors

This message generates all of the [Default Errors](#).

RTRV-RMTDEV

Name

RTRV-RMTDEV: Retrieve RMTDEV

Description

Category: System **Security:** Memory Admin - read

Retrieve Remote Device.

Input Format

```
RTRV-RMTDEV: [ TID ] : <RmtDevAid> : [ CTAG ] ;
```

Input Parameters

RmtDevAid Remote Device Access Identifier. *RmtDevAid* is the AID [RmtDevAid](#). *RmtDevAid* must not be null.

Input Example

```
RTRV-RMTDEV: SYS:N2-3-RMT1:568 ;
```

Output Format

```

    SID DATE TIME
M   CTAG COMPLD

"<RmtDevAid>: [ [ SERIAL=<SERIAL>, ] [ DEVNAME=<DEVNAME>, ] [ DEVTYPE=<DEVTYPE>, ]
    [ MGMTIP=<MGMTIP>, ] [ PLOCN=<PLOCN>, ] [ SAMENODE=<SAMENODE>, ]
    [ SIPVCG=<SIPVCG> ] ]"
;
```

Output Parameters

RmtDevAid Remote Device Access Identifier. *RmtDevAid* is the AID [RmtDevAid](#).

SERIAL Serial - The remote device serial number. This may correspond to a backplane identifier, or some other means of identifying the physical piece of equipment. *SERIAL* is a String. *SERIAL* is optional.

DEVNAME	The name of the remote device. This could be the CLLI code of a network element, or an arbitrary name assigned to the device. <i>DEVNAME</i> is a String. <i>DEVNAME</i> is optional.
DEVTYPE	The type of the device. <i>DEVTYPE</i> is of type RmtDeviceType . <i>DEVTYPE</i> is optional.
MGMTIP	The IP address(es) of the device to which an operator or the CMS can connect. <i>MGMTIP</i> is the AID IpAid . <i>MGMTIP</i> is optional.
PLOCN	The identifier(s) of the physical port(s) to which the remote device is connected. This can include in-band ports such as a GE or OCn port, or a port on the AMP. <i>PLOCN</i> is the AID RmtDevDiscAid . <i>PLOCN</i> is optional.
SAMENODE	This indicates if the device is considered part of the same node for management purposes. In a general sense, a node refers to co-located equipment of performing a collective function. <i>SAMENODE</i> is of type BoolYN . <i>SAMENODE</i> is optional.
SIPVCG	The SIP VCG created for managing SIP-based subscribers. The SIP VCG is required if this device will use a PSTN gateway capabilities of the C7. <i>SIPVCG</i> is the AID IgAid . <i>SIPVCG</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N2-3-
RMT1 ::SERIAL=082839283,DEVNAME=MYF5,DEVTYPE=F5,MGMTIP=10.1.1.1,
PLOCN=N1-1-1-1,SAMENODE=N,SIPVCG=N1-1-IG3"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-RMTDEV-DISC

Name

RTRV-RMTDEV-DISC: Retrieve RMTDEV Discovered

Description

Category: System **Security:** Testing

A discovered Remote Device is a device that has been detected by the system via the Link Layer Discovery Protocol (IEEE 802.1ab). This could include another Calix node such as an E5, or could represent a 3rd party device such as a test head. The information represents that required for basic topology and device management.

Input Format

```
RTRV-RMTDEV-DISC:[TID]:<RmtDevPortAid>:[CTAG];
```

Input Parameters

RmtDevPortAid The port on which the remote device has been detected. *RmtDevPortAid* is the AID [RmtDevDiscRngAid](#). *RmtDevPortAid* must not be null.

Input Example

```
RTRV-RMTDEV-DISC:SYS:N1-1-1-1:568;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD
" <RmtDevPortAid> :: [ [ SERIAL=<SERIAL> , ] [ DEVPORT=<DEVPORT> , ]
[ DEVNAME=<DEVNAME> , ] [ MGMTIP=<MGMTIP> , ] [ FIRSTFOUND=<FIRSTFOUND> ,
[ LASTFOUND=<LASTFOUND> ] ] "
;
```

Output Parameters

RmtDevPortAid The port on which the remote device has been detected. *RmtDevPortAid* is the AID [RmtDevDiscAid](#).

SERIAL The remote device serial number it is broadcasting. This should typically correspond to a backplane identifier, or some other means of identifying the physical piece of equipment, but could also be a MAC address, IP address or logical port identifier. This correlates to the “Chassis component” TLV in the received LLDP frames. *SERIAL* is a String. *SERIAL* is optional.

DEVPORT The remote device port identifier it is broadcasting. This should typically be a logical identifier for the port, but could also be a MAC address, IP address, Agent Circuit ID or some other string. *DEVPORT* is the AID [TwelvePortLuAid](#). *DEVPORT* is optional.

DEVNAME The name of the remote device. This could be the CLLI code of a network element, or an arbitrary name assigned to the device. *DEVNAME* is a String. *DEVNAME* is optional.

MGMTIP The IP address(es) of the device to which an operator or the CMS can connect. *MGMTIP* is the AID [IpAid](#). *MGMTIP* is optional.

FIRSTFOUND Date and Time of the first time this ONT was found through arrival/ranging. *FIRSTFOUND* is a String. *FIRSTFOUND* is optional.

LASTFOUND Most recent Date and Time that this ONT was found through ranging. *LASTFOUND* is a String. *LASTFOUND* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
```

```
M 001 COMPLD
  "N1-1-1-1::SERIAL=082839283,DEVPORT=N2-1-1-
2,DEVNAME=MYF5,MGMTIP=10.1.1.1,
  FIRSTFOUND=\"05-10-18 14-22-01\",LASTFOUND=\"05-10-20 10-
13-46\""
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-SERIAL

Name

RTRV-SERIAL: Retrieve Serial Port

Description

Category: Management Interface

Security: Memory Admin - read

This command retrieves the attributes associated with a serial port.

Defined by Calix.

Related Messages:

[ACT-CRS-OW](#)
[ED-IFCONFIG](#)
[ENT-CRS-OW](#)
[RTRV-IFCONFIG](#)

[DLT-CRS-OW](#)
[ED-SERIAL](#)
[RTRV-CRS-OW](#)

Input Format

```
RTRV-SERIAL:[TID]:<SerialAid>:[CTAG];
```

Input Parameters

SerialAid Serial Port Access Identifier. The address of the serial port for which is being retrieved.
SerialAid is the AID [SerialPort](#) and is listable. *SerialAid* must not be null.

Input Example

```
RTRV-SERIAL:SYS1:N9-3-MS-S1:353;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD
"<SerialAid>:[ <PARITY> ],[ <STOPB> ],[ <BRATE> ],[ <DATABITS> ]:[ CHAP=<CHAP> ]"
;

```

Output Parameters

- SerialAid** Serial Port Access Identifier. The address of the serial port for which is retrieved. *SerialAid* is the AID [SerialPort](#).
- PARITY** Parity. This parameter indicate the parity for the serial port. *PARITY* is of type [Parity](#). *PARITY* is optional.
- STOPB** STOP Bits. The number of stop bits used for this port. *STOPB* is of type [StopBits](#). *STOPB* is optional.
- BRATE** Baud Rate. This parameter indicates the baud rate for the serial port. *BRATE* is of type [BaudRate](#). *BRATE* is optional.
- DATABITS** Data Bits. The number of data bits allowed. *DATABITS* is of type [DataBits](#). *DATABITS* is optional.
- CHAP** Channel Access Privileges. This parameter indicates the privileges which are allowed on the serial port. *CHAP* is of type [CidSecurity](#). *CHAP* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N9-3-MS-S1:ODD,1,2400,8:CHAP=FULLACC"
;

```

Errors

This message generates all of the [Default Errors](#).

RTRV-SFP

Name

RTRV-SFP: Retrieve SFP

Description

Category: Ethernet**Security:** Memory Admin - read

Small Form-factor Pluggable (SFP) - A standard for optical PHYs specifying physical dimensions and a basic programming interface. SFPs can be changed by the end-user; for example, between single- and multi-mode fiber devices. This command retrieves SFP specific information.

Input Format

```
RTRV-SFP:[TID]:<PortAid>:[CTAG];
```

Input Parameters

PortAid This is the AID of a port equipped with an SFP. Currently this means a GE port of a GE-2P card, or an OLTG PON port. *PortAid* is the AID [SfpId3](#) and is listable and rangeable. *PortAid* must not be null.

Input Example

```
RTRV-SFP:SYS1:N1-1-18-1:323;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD
"<PortAid>::[ [ STATE=<STATE>, ] [ CONNECTOR=<CONNECTOR>, ]
[ IDENTIFIER=<IDENTIFIER>, ] [ TRANCOMP=<TRANCOMP>, ] [ ENCODING=<ENCODING>, ]
[ WAVELEN=<WAVELEN>, ] [ BITRATE=<BITRATE>, ] [ LENGTH=<LENGTH>, ]
[ VENDOR=<VENDOR>, ] [ PARTNO=<PARTNO>, ] [ REV=<REV>, ] [ SERIAL=<SERIAL>, ]
[ TEMP=<TEMP>, ] [ VOLT=<VOLT>, ] [ TXCURR=<TXCURR>, ] [ TXPWR=<TXPWR>, ]
[ RXPWR=<RXPWR> ] ]"
;
```

Output Parameters

PortAid	<i>PortAid</i> is the AID FourPortLuAid .
STATE	Current state of the SFP: NORMAL, UNEQUIPPED or UNKNOWN. <i>STATE</i> is of type SfpState . <i>STATE</i> is optional.
CONNECTOR	SFP connector <i>CONNECTOR</i> is of type SfpConnector . <i>CONNECTOR</i> is optional.
IDENTIFIER	SFP Identifier <i>IDENTIFIER</i> is of type SfpId . <i>IDENTIFIER</i> is optional.
TRANCOMP	SFP Transceiver Compatibility. <i>TRANCOMP</i> is of type SfpTransComp and is listable. <i>TRANCOMP</i> is optional.
ENCODING	SFP Encoding <i>ENCODING</i> is of type SfpEncoding . <i>ENCODING</i> is optional.
WAVELEN	SFP Wavelength in nm. <i>WAVELEN</i> is a String. <i>WAVELEN</i> is optional.
BITRATE	SFP BitRate - Nominal Bit Rate in 100Mbps. <i>BITRATE</i> is a String. <i>BITRATE</i> is optional.
LENGTH	SFP link length that is supported by the transceiver (in meters). <i>LENGTH</i> is a String.

LENGTH is optional.

VENDOR	<i>VENDOR</i> is a String. <i>VENDOR</i> is optional.
PARTNO	<i>PARTNO</i> is a String. <i>PARTNO</i> is optional.
REV	<i>REV</i> is a String. <i>REV</i> is optional.
SERIAL	<i>SERIAL</i> is a String. <i>SERIAL</i> is optional.
TEMP	Internally measured transceiver temperature in Fahrenheit. May not be available for all SFPs. <i>TEMP</i> is a String. <i>TEMP</i> is optional.
VOLT	Internally measured transceiver supply voltage in micro Volt. May not be available for all SFP. Value range is 0 - 6553500 (0 - 6.55Volt) <i>VOLT</i> is a String. <i>VOLT</i> is optional.
TXCURR	Measured TX bias current in μ A. May not be available for all SFP. Value range is from 0 - 131070 (0 - 131 mA) <i>TXCURR</i> is a String. <i>TXCURR</i> is optional.
TXPWR	Measured TX output power in μ W. May not be available for all SFP. Value range is from 0 - 6553 (0 - 6.553mW) <i>TXPWR</i> is a String. <i>TXPWR</i> is optional.
RXPWR	Measured RX received optical power in μ W. May not be available for all SFP. Value range is from 0 - 6553 (0 - 6.553mW) <i>RXPWR</i> is a String. <i>RXPWR</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-1-
18::STATE=NORMAL,CONNECTOR=SC,IDENTIFIER=SFP,TRANCOMP=1000BASE-T,
ENCODING=8B10B,WAVELEN=100,BITRATE=100,LENGTH=2,VENDOR=\"ME\",
PARTNO=\"1234\",REV=\"2\",SERIAL=\"123AZ1\",TEMP=30,VOLT=6553500,
    TXCURR=131070, TXPWR=6553, RXPWR=6553"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-SHELF

Name

RTRV-SHELF: Retrieve Shelf

Description

Category: System **Security:** Memory Admin - read

This command retrieves attributes associated with the shelf. The value is presented as a HEX-value, with a leading 0x applied.

Defined by Calix.

Related Messages:

ALW-STBY-UPGRD	DLT-ALM-SHELF
DLT-NODE	ED-DAT
ED-NODE	ED-SHELF
ED-SYS	ED-SYS-SECU
ENT-NODE	ENT-SHELF
INH-STBY-UPGRD	INIT-SYS
OPR-BAR	REPT ALM SHELF
REPT EVT MEM	REPT EVT SHELF
RTRV-ALM-SHELF	RTRV-BAR
RTRV-COND-SHELF	RTRV-HDR
RTRV-NETYPE	RTRV-NODE
RTRV-SYS	RTRV-SYS-SECU

Input Format

```
RTRV-SHELF:[TID]:<ShelfAid>:[CTAG];
```

Input Parameters

ShelfAid Shelf Access Identifier. The address of the shelf where the data is to be retrieved from.

ShelfAid is the AID [ShelfId](#) and is listable and rangeable. *ShelfAid* must not be null. *ShelfAid* can be set to "ALL".

Input Example

```
RTRV-SHELF:SYS1:N6-5:CTAG;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<ShelfAid>:[<BackplaneNo>]:[[ENV=<ENV>,[PWRCAT3=<PWRCAT3>,
[PWRLEV=<PWRLEV>,[PWRDIS=<PWRDIS>,[DCIN=<DCIN>,[TYPE=<TYPE>,
[PARTNO=<PARTNO>,[HWREV=<HWREV>,[CLEI=<CLEI>,[SERIAL=<SERIAL>,
[PROVCAP=<PROVCAP>,[UBRBWRES=<UBRBWRES>,[UBRBW=<UBRBW>,[GRBW=<GRBW>,
[AVAILBW=<AVAILBW>,[TDBW=<TDBW>,[ENGNO=<ENGNO>]]"
;
```

Output Parameters

ShelfAid	Shelf Access Identifier. The address of the shelf where the data was retrieved. <i>ShelfAid</i> is the AID ShelfAid .
BackplaneNo	This is the serial number of the backplane in the shelf that was retrieved. <i>BackplaneNo</i> is a String. <i>BackplaneNo</i> is optional.
ENV	Environment. This indicates whether the shelf is provisioned to be in a controlled or uncontrolled environment. <i>ENV</i> is of type Environment . <i>ENV</i> is optional.
PWRCAT3	Power Category 3 Shutdown time. This is the time equipment assigned to power category 3 is allowed to remain powered up after the system switches to emergency backup power. <i>PWRCAT3</i> is of type PowerCat3Time . <i>PWRCAT3</i> is optional.
PWRLEV	Power Level. This indicates the maximum power level which the shelf is allowed to consume across all cards within the shelf. <i>PWRLEV</i> is a Integer. <i>PWRLEV</i> is optional.
PWRDIS	Power Dissipation. This indicates the maximum power that the shelf has been budgeted to dissipate across all cards within the shelf. <i>PWRDIS</i> is a Integer. <i>PWRDIS</i> is optional.
DCIN	DC Inputs. This parameter indicates the type of DC power being supplied to the shelf. <i>DCIN</i> is of type DCIN . <i>DCIN</i> is optional.
TYPE	The type of this shelf. <i>TYPE</i> is of type EqptTypeShelf . <i>TYPE</i> is optional.
PARTNO	PART NO. This parameter identifies the part number of the shelf. <i>PARTNO</i> is a String. <i>PARTNO</i> is optional.
HWREV	Hardware Revision. This parameter identifies the revision number of the shelf. <i>HWREV</i> is a Integer. <i>HWREV</i> is optional.
CLEI	Common Language Equipment Identifier. This parameter indicates the CLEI code of the shelf. <i>CLEI</i> is a String. <i>CLEI</i> is optional.
SERIAL	Serial Number. This parameter identifies the serial number shelf. <i>SERIAL</i> is a String. <i>SERIAL</i> is optional.
PROVCAP	PROVCAP indicates the percentage in use of rap flash in a shelf. The range is 1-100. <i>PROVCAP</i> is a Integer. <i>PROVCAP</i> is optional.
UBRBWRES	Amount of backplane bandwidth reserved for UBR bandwidth in kbps for all the slots. <i>UBRBWRES</i> is a Integer. <i>UBRBWRES</i> is optional.
UBRBW	Amount of bandwidth available for all the equipments in kbps. <i>UBRBW</i> is a Integer. <i>UBRBW</i> is optional.
GRBW	Currently used Guaranteed (excluding TDM) bandwidth of all equipment including VCG and VB reserved BW in kbps. <i>GRBW</i> is a Integer. <i>GRBW</i> is optional.
AVAILBW	Currently used bandwidth for UBR cross-connects in Kbps + Available bandwidth for future services in Kbps. <i>AVAILBW</i> is a Integer. <i>AVAILBW</i> is optional.
TDMBW	Currently used TDM bandwidth in Kbps. <i>TDMBW</i> is a Integer. <i>TDMBW</i> is optional.
ENGNO	Engineering Hardware Number. <i>ENGNO</i> is a String. <i>ENGNO</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N6-
5:123456:ENV=CONTROL,PWRCAT3=30,PWRLEV=500,PWRDIS=500,DCIN=DCA,
TYPE=C7-SHELF-
10C,PARTNO=XXXX,HWREV=3,CLEI=E5SQZFFBCC,SERIAL=192833280,

```

```
PROVCAP=40 ,UBRBWRES=200 ,UBRBW=500 ,GRBW=500 ,AVAILBW=500 ,TDMBW=500 ,
ENGNO=400.97.0"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-SIP

Name

RTRV-SIP: Retrieve Session Initiation Protocol

Description

Category: VOIP **Security:** Maintenance - full

This command retrieves attributes associated with the SIP IG.

Input Format

```
RTRV-SIP:[TID]:<IgAid>:[CTAG];
```

Input Parameters

IgAid Access Identifier for the SIP Group. *IgAid* is the AID [IgRngAid](#) and is listable and rangeable. *IgAid* must not be null.

Input Example

```
RTRV-SIP:SYS:N1-2-IG3:322;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<IgAid>::[[PRICFGURL=<PRICFGURL>,][SECCFGURL=<SECCFGURL>,]
[HOSTPROTO=<HOSTPROTO>,][IP=<IP>,[IPMSK=<IPMSK>,[GADDR=<GADDR>,
[MAXACTCALLS=<MAXACTCALLS>,[OPTION82=<OPTION82>]]:[<PST>]"
;
```

Output Parameters

IgAid	Access Identifier for the SIP Group. <i>IgAid</i> is the AID IgAid .
PRICFGURL	PRImary ConFiGuration Uniform Resource Locator. URL of the configuration needed to access the SIP network. Currently TFTP access and direct registration with the SIP registrar are supported. The value can take following 1 of 2 formats: "TFTP: //IP address of TFTP server/Path to Config File" or "REGISTER SIP: IP address of SIP registrar" <i>PRICFGURL</i> is a String. <i>PRICFGURL</i> is optional.
SECCFGURL	SECondary ConFiGuration Uniform Resource Locator. URL of backup network access configuration. The value takes the same format as <i>PRICFGURL</i> . <i>SECCFGURL</i> is a String. <i>SECCFGURL</i> is optional.
HOSTPROTO	Protocol to be used to obtain the IP address for the host for SIP lines in the group. <i>HOSTPROTO</i> is of type SipHostProto . <i>HOSTPROTO</i> is optional.
IP	IP address. Statically assigned IP address associated with the group. <i>IP</i> is the AID IpAid . <i>IP</i> is optional.
IPMSK	Subnet IP MASK. <i>IPMSK</i> is the AID IpAid . <i>IPMSK</i> is optional.
GADDR	Subnet IP GATEWAY Address. Statically assigned IP address associated with the group's gateway. <i>GADDR</i> is the AID IpAid . <i>GADDR</i> is optional.
MAXACTCALLS	<i>MAXACTCALLS</i> is a Integer. <i>MAXACTCALLS</i> is optional.
OPTION82	Indicates whether DHCP Relay Option 82 is enabled. <i>OPTION82</i> is of type Option82 . <i>OPTION82</i> is optional.
PST	<i>PST</i> is of type PrimaryState . <i>PST</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "N1-2-IG3::PRICFGURL=\\"TFTP
//192.168.22.123/SIPCONFIGS/SWITCH1.TXT\",
  SECCFGURL=\\"TFTP //192.168.21.128/SIPCONFIGS/SWITCH1.TXT\",
  HOSTPROTO=STATIC,IP=192.168.22.123,IPMSK=255.255.255.0,
  GADDR=192.168.22.1,MAXACTCALLS=255,OPTION82=N:OOS"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-SIPT0

Name

RTRV-SIPT0: Retrieve SIPT0

Description

Category: VOIP **Security:** Memory Admin - read

This command retrieves attributes associated with the SIP T0.

Input Format

```
RTRV-SIPT0:[TID]:<T0Aid>:[CTAG];
```

Input Parameters

T0Aid *T0Aid* is the AID [SipT0PortNtwkRngAid](#). *T0Aid* must not be null.

Input Example

```
RTRV-SIPT0:SYS2:N1-5-6-3-1:123;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<T0Aid>:::[SIPIG=<SIPIG>,][USER=<USER>],[PID=<PID>,
[HOSTPROTO=<HOSTPROTO>,[IP=<IP>,[IPMSK=<IPMSK>,[GADDR=<GADDR>]
[<PST>,[<SST>]
;
```

Output Parameters

T0Aid *T0Aid* is the AID [SipT0PortAid](#).

SIPIG SIP Group AID. Identifies the SIP group to which the line belongs. *SIPIG* is the AID [IgAid](#). *SIPIG* is optional.

USER User Name. User name for the subscriber. This string is used to form the UserId field to the left of the @ in the SIP URL. It is also used as the username for authentication protocols. The value is a character string up to 20 bytes. It must either be a telephone number or the AID of a legacy telephony interface provided by a C7. *USER* is a String. *USER* is optional.

PID Password. Password for authorization of the subscriber. The value is a character string up to 20 bytes. *PID* is a String. *PID* is optional.

HOSTPROTO *HOSTPROTO* is of type [SipT0HostProto](#). *HOSTPROTO* is optional.

IP *IP* is the AID [IpAid](#). *IP* is optional.

IPMSK *IPMSK* is the AID [IpAid](#). *IPMSK* is optional.

GADDR *GADDR* is the AID [IpAid](#). *GADDR* is optional.

- PST** *PST* is of type [PrimaryState](#). *PST* is optional.
- SST** *SST* is of type [SecondaryState](#) and is listable. *SST* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "N1-5-6-3-1::SIPIG=N1-2-IG3,USER=N4-1-IG2-
7,PID=GRF33,HOSTPROTO=GROUP,
  IP=0.0.0.0,IPMSK=0.0.0.0,GADDR=0.0.0.0:IS-NR,RDLD"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-SIPVCG

Name

RTRV-SIPVCG: Retrieve SIPVCG

Description

Category: VOIP **Security:** Memory Admin - read

This command retrieves attributes associated with the SIP VCG.

Input Format

```
RTRV-SIPVCG:[TID]:<IgAid>:[CTAG];
```

Input Parameters

IgAid Ig Number within a shelf. *IgAid* is the AID [IgRngAid](#) and is listable and rangeable. *IgAid* must not be null.

Input Example

```
RTRV-SIPVCG:SYS1:N1-2-IG3:321;
```

Output Format

SID DATE TIME
M CTAG COMPLD
"<IgAid>::[[CTLIP=<CTLIP>,] [MAXACTCALLS=<MAXACTCALLS>]] : [<PST>] "
;

Output Parameters

IgAid	Ig Number within a shelf. <i>IgAid</i> is the AID IgAid .
CTLIP	Control IP Address. IP address for control message transport. This IP address is used to contact both the SIP registrar and the SIP user agents associated with the IG. <i>CTLIP</i> is the AID IpAid . <i>CTLIP</i> is optional.
MAXACTCALLS	<i>MAXACTCALLS</i> is a Integer. <i>MAXACTCALLS</i> is optional.
PST	<i>PST</i> is of type PrimaryState . <i>PST</i> is optional.

Output Example

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-2-IG3::CTLIP=131.213.41.146,MAXACTCALLS=255:OOS"
;

Errors

This message generates all of the [Default Errors](#).

RTRV-SNMP

Name

RTRV-SNMP: Retrieve SNMP

Description

Category: Management Interface **Security:** Memory Admin - read

Retrieves the the global attributes associated with SNMP in the C7 system.

Defined by Calix.

Input Format

RTRV-SNMP:[TID]:::[CTAG];

Input Example

```
RTRV-SNMP:SYS1::23;
```

Output Format

```
  SID DATE TIME
M  CTAG COMPLD
": : [ [ SNMPVER=<SNMPVER>, ] [ ROCOMMSTRING=<ROCOMMSTRING>, ] [ TRAPPOR
    ] "
;
;
```

Output Parameters

- SNMPVER** SNMP Version. *SNMPVER* is of type [SnmpVersion](#) and is listable. *SNMPVER* is optional.
- ROCOMMSTRING** Read-Only Community String. This identifies the Community String that must be used by the SNMP manager when performing SNMP Get operations on the C7 network. *ROCOMMSTRING* is a String. *ROCOMMSTRING* is optional.
- TRAPPOR** The Management port through which Traps are emitted. *TRAPPOR* is the AID [IfConfigAid](#). *TRAPPOR* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
": : SNMPVER=V2C&V3,ROCOMMSTRING=\ "PUBLIC\ ",TRAPPOR=N1-2-MS-
E2"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-SNMP-ACL

Name

RTRV-SNMP-ACL: Retrieve SNMP Access Control List

Description

Category: Management Interface

Security: Memory Admin - read

Retrieves the SNMP Access Control List. If empty, no access restrictions are made.

Input Format

```
RTRV-SNMP-ACL:[TID]:::[CTAG];
```

Input Example

```
RTRV-SNMP-ACL:::23;
```

Output Format

```
 SID DATE TIME
M CTAG COMPLD
" :::[ IP=<IP>, ][ IPMSK=<IPMSK> ] "
;
```

Output Parameters

IP IP Address. The IP address of the SNMP manager that is allowed to make requests to the C7 network. *IP* is the AID [IpAid](#). *IP* is optional.

IPMSK IP Address Mask. The mask to apply to the IP address, allowing for a range of IP addresses to be considered. *IPMSK* is the AID [IpAid](#). *IPMSK* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
" :::IP=192.168.1.0,IPMSK=255.255.255.0"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-SNMP-TRAP

Name

RTRV-SNMP-TRAP: Retrieve SNMP Trap

Description

Category: Management Interface

Security: Memory Admin - read

Retrieves the attributes associated with an SNMP trap recipient.

Defined by Calix.

Input Format

```
RTRV-SNMP-TRAP:[TID]:<TrapAid>:[CTAG];
```

Input Parameters

TrapAid Trap Access Identifier. The address of the trap to be retrieved. *TrapAid* is the AID [TrapAid](#). *TrapAid* must not be null.

Input Example

```
RTRV-SNMP-TRAP::N1-2-MS-T2:23;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<TrapAid>:[ [ IP=<IP>, ] [ UDPPORT=<UDPPORT>, ] [ COMMSTRING=<COMMSTRING>, ]
[ SNMPVER=<SNMPVER> ] ]"
;"
```

Output Parameters

TrapAid	Trap Access Identifier. The address of the trap which was retrieved. <i>TrapAid</i> is the AID TrapAid .
IP	IP Address. This parameter identifies the IP address where traps will be sent. Use an IP address with all zeros (i.e. 0.0.0.0) to disable a specific trap. <i>IP</i> is the AID IpAid . <i>IP</i> is optional.
UDPPORT	UDP Port. This parameter identifies the port where the trap is to be sent. <i>UDPPORT</i> is of type UdpPort . <i>UDPPORT</i> is optional.
COMMSTRING	Community String. This identifies the Community String to be used when sending traps. <i>COMMSTRING</i> is a String. <i>COMMSTRING</i> is optional.
SNMPVER	SNMP Version. <i>SNMPVER</i> is of type SnmpVersion . <i>SNMPVER</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-2-MS-T2::IP=255.24.7.1,UDPPORT=162,COMMSTRING=\"C7"
```

```
TRAPS\" , SNMPVER=V3 "
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-SSH

Name

RTRV-SSH: Retrieve SSH

Description

Category: Security **Security:** Memory Admin - read

This command is used to retrieve Secure access parameters for the C7 SSH (Secure Shell) server.

Input Format

```
RTRV-SSH:[TID]:::[CTAG];
```

Input Example

```
RTRV-SSH:SYS1:::124;
```

Output Format

```
      SID DATE TIME
M    CTAG COMPLD
" [ [ HASH=<HASH>, ][ CIPHER=<CIPHER> ] ] "
;
```

Output Parameters

HASH The allowed hashes or MACs (Message Authentication Codes). *HASH* is of type [SshHash](#) and is listable. *HASH* is optional.

CIPHER The allowed encryption schemes. *CIPHER* is of type [SshCipher](#) and is listable. *CIPHER* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "HASH=SHA1,CIPHER=3DES&AES&BLOWFISH"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-STAT-DHCPL2RELAY

Name

RTRV-STAT-DHCPL2RELAY: Retrieve STAT DHCPL2RELAY

Description

Category: IP **Security:** Testing

No Comment Defined.

Input Format

```
RTRV-STAT-DHCPL2RELAY:[TID]:<VlanAid>:[CTAG];
```

Input Parameters

VlanAid *VlanAid* is the AID [PacketVlanAid](#) and is listable. *VlanAid* must not be null.

Input Example

```
RTRV-STAT-DHCPL2RELAY:SYS1:N3-2-VB1-VLAN5:44;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
  "<VlanAid>::[[DISCRECV=<DISCRECV>,][DISCXMIT=<DISCXMIT>,]
  [DISCDISCARD=<DISCDISCARD>,][DISCERROR=<DISCERROR>,]
  [OFFRRECV=<OFFRRECV>,][OFFRXMIT=<OFFRXMIT>,][OFFRDISCARD=<OFFRDISCARD>,]
  [OFFRERROR=<OFFRERROR>,][REQRECV=<REQRECV>,][REQXMIT=<REQXMIT>,]
  [REQDISCARD=<REQDISCARD>,][REQERROR=<REQERROR>,][ACKRECV=<ACKRECV>,]
  [ACKXMIT=<ACKXMIT>,][ACKDISCARD=<ACKDISCARD>,][ACKERROR=<ACKERROR>,]
```

```
[RLSRECV=<RLSRECV>,][RLSXMIT=<RLSXMIT>][RLSDISCARD=<RLSDISCARD>]
[RLSError=<RLSError>][INFMRcv=<INFMRcv>][INFMXMIT=<INFMXMIT>]
[INFMDiscard=<INFMDiscard>][INFMError=<INFMError>]
[OP82NOSUCH=<OPT82NOSUCH>]"
```

Output Parameters

VlanAid	<i>VlanAid</i> is the AID PacketVlanAid .
DISCRECV	<i>DISCRECV</i> is a Integer. <i>DISCRECV</i> is optional.
DISCXMIT	<i>DISCXMIT</i> is a Integer. <i>DISCXMIT</i> is optional.
DISCDISCARD	<i>DISCDISCARD</i> is a Integer. <i>DISCDISCARD</i> is optional.
DISCERROR	<i>DISCERROR</i> is a Integer. <i>DISCERROR</i> is optional.
OFFRRECV	<i>OFFRRECV</i> is a Integer. <i>OFFRRECV</i> is optional.
OFFRXMIT	<i>OFFRXMIT</i> is a Integer. <i>OFFRXMIT</i> is optional.
OFFRDISCARD	<i>OFFRDISCARD</i> is a Integer. <i>OFFRDISCARD</i> is optional.
OFFRERROR	<i>OFFRERROR</i> is a Integer. <i>OFFRERROR</i> is optional.
REQRECV	<i>REQRECV</i> is a Integer. <i>REQRECV</i> is optional.
REQXMIT	<i>REQXMIT</i> is a Integer. <i>REQXMIT</i> is optional.
REQDISCARD	<i>REQDISCARD</i> is a Integer. <i>REQDISCARD</i> is optional.
REQERROR	<i>REQERROR</i> is a Integer. <i>REQERROR</i> is optional.
ACKRECV	<i>ACKRECV</i> is a Integer. <i>ACKRECV</i> is optional.
ACKXMIT	<i>ACKXMIT</i> is a Integer. <i>ACKXMIT</i> is optional.
ACKDISCARD	<i>ACKDISCARD</i> is a Integer. <i>ACKDISCARD</i> is optional.
ACKERROR	<i>ACKERROR</i> is a Integer. <i>ACKERROR</i> is optional.
RLSRECV	<i>RLSRECV</i> is a Integer. <i>RLSRECV</i> is optional.
RLSXMIT	<i>RLSXMIT</i> is a Integer. <i>RLSXMIT</i> is optional.
RLSDISCARD	<i>RLSDISCARD</i> is a Integer. <i>RLSDISCARD</i> is optional.
RLSError	<i>RLSError</i> is a Integer. <i>RLSError</i> is optional.
INFMRcv	<i>INFMRcv</i> is a Integer. <i>INFMRcv</i> is optional.
INFMXMIT	<i>INFMXMIT</i> is a Integer. <i>INFMXMIT</i> is optional.
INFMDiscard	<i>INFMDiscard</i> is a Integer. <i>INFMDiscard</i> is optional.
INFMError	<i>INFMError</i> is a Integer. <i>INFMError</i> is optional.
OPT82NOSUCH	<i>OPT82NOSUCH</i> is a Integer. <i>OPT82NOSUCH</i> is optional.

Output Example

TID-000 98-06-20 14-30-00

```
M 001 COMPLD
  "N3-2-VB1-VLAN5::DISCRECV=1234,DISCXMIT=1234,DISCDISCARD=1234,
   DISCERROR=1234,OFFRRECV=1234,OFFRXMIT=1234,OFFRDISCARD=1234,
   OFFRERROR=1234,REQRECV=1234,REQXMIT=1234,REQDISCARD=1234,REQERROR=1234,
   ACKRECV=1234,ACKXMIT=1234,ACKDISCARD=1234,ACKERROR=1234,RLSRECV=1234,
   RLSXMIT=1234,RLSDISCARD=1234,RLSError=1234,INFMRECV=1234,INFMXMIT=1234,
   INFMDISCARD=1234,INFMRERROR=1234,OP82NOSUCH=1234"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-STAT-ETH

Name

RTRV-STAT-ETH: Retrieve STAT Ethernet Port

Description

Category: Ethernet **Security:** Testing

Retrieves the statistics gathered on an IRC Pseudoport, Ethernet user port or link aggregate. NOTE: Shelf level retrieval does not include MS-E1/E2/E2 ports. LINK applies to ONT ETH ports only. And only the LINK, SPD and DPLX parameters will be displayed when retrieving ONT ETH ports.

Related Messages:

[DLT-AGG](#)
[DLT-AGG-PORT](#)
[DLT-ETH-ACL](#)
[DLT-LSWITCH](#)
[DLT-PROF-ETH](#)
[DLT-VLAN-PORT](#)
[ED-ETH](#)
[ED-VLAN](#)
[ED-VLAN-VBPORT](#)
[ENT-AGG-ACL](#)
[ENT-ETH](#)
[ENT-GOS-ETH](#)
[ENT-LSWITCH-PORT](#)
[ENT-VLAN](#)

[DLT-AGG-ACL](#)
[DLT-ETH](#)
[DLT-GOS-ETH](#)
[DLT-LSWITCH-PORT](#)
[DLT-VLAN](#)
[DLT-VLAN-VBPORT](#)
[ED-GOS-ETH](#)
[ED-VLAN-PORT](#)
[ENT-AGG](#)
[ENT-AGG-PORT](#)
[ENT-ETH-ACL](#)
[ENT-LSWITCH](#)
[ENT-PROF-ETH](#)
[ENT-VLAN-PORT](#)

ENT-VLAN-VBPORT	INIT-LSWITCH
INIT-STAT-ETH	REPT ALM ETH
REPT EVT ETH	REPT RMV ETH
REPT RST ETH	RMV-ETH
RST-ETH	RTRV-AGG
RTRV-AGG-ACL	RTRV-AGG-PORT
RTRV-ALM-ETH	RTRV-COND-ETH
RTRV-ETH	RTRV-ETH-ACL
RTRV-GOS-ETH	RTRV-LSWITCH
RTRV-LSWITCH-PORT	RTRV-PM-ETH
RTRV-PROF-ETH	RTRV-VLAN
RTRV-VLAN-PORT	RTRV-VLAN-VBPORT

Input Format

RTRV-STAT-ETH:[TID]:<EthAid>:[CTAG];

Input Parameters

EthAid Ethernet Access Identifier. *EthAid* is the AID [EthId5](#) and is listable and rangeable. *EthAid* must not be null.

Input Example

RTRV-STAT-ETH:SYS1:N3-4-3-4:323;

Output Format

```

SID DATE TIME
M CTAG COMPLD
"<EthAid>::[ [ MAC=<MAC>, ] [ LINK=<LINK>, ] [ SPD=<SPD>, ] [ DPLX=<DPLX>, ]
[ DATRST=<DATRST>, ] [ TODRST=<TODRST>, ] [ DATSTCHG=<DATSTCHG>, ]
[ TODSTCHG=<TODSTCHG>, ] [ INUCPKT=<INUCPKT>, ] [ INMCPKT=<INMCPKT>, ]
[ INBCPKT=<INBCPKT>, ] [ OUTUCPKT=<OUTUCPKT>, ] [ OUTMCPKT=<OUTMCPKT>, ]
[ OUTBCPKT=<OUTBCPKT>, ] [ INOCT=<INOCT>, ] [ OUTOCT=<OUTOCT>, ] [ INERR=<INERR>, ]
[ OUTERR=<OUTERR>, ] [ PROTUNK=<PROTUNK>, ] [ ALIGNERR=<ALIGNERR>, ]
[ FCSERR=<FCSERR>, ] [ SINGCOLL=<SINGCOLL>, ] [ MULTICOLL=<MULTICOLL>, ]
[ SQTEST=<SQTEST>, ] [ DEFERRED=<DEFERRED>, ] [ LATECOLL=<LATECOLL>, ]
[ XSCOLL=<XSCOLL>, ] [ TOOLONG=<TOOLONG>, ] [ INDISCARD=<INDISCARD>, ]
[ OUTDISCARD=<OUTDISCARD>, ] [ INPKT=<INPKT>, ] [ OUTPKT=<OUTPKT>, ]
[ TXINTERR=<TXINTERR>, ] [ RXINTERR=<RXINTERR> ] "
;
```

Output Parameters

EthAid	Ethernet Access Identifier. <i>EthAid</i> is the AID EthId3 .
MAC	MAC address. Currently applies to ethernet user ports only. <i>MAC</i> is the AID MacAid . <i>MAC</i> is optional.
LINK	<i>LINK</i> is of type EthPortLinkState . <i>LINK</i> is optional.

SPD	Speed. Currently applies to ethernet user ports only. <i>SPD</i> is of type Speed . <i>SPD</i> is optional.
DPLX	Duplex. Currently applies to ethernet user ports only. <i>DPLX</i> is of type Duplex . <i>DPLX</i> is optional.
DATRST	Date of last reset of counters. Date MM-DD. Currently applies to ethernet user ports Only. <i>DATRST</i> is a Date. <i>DATRST</i> is optional.
TODRST	Time of last reset of counters. Time HH-MM-SS. Currently applies to ethernet user ports only. <i>TODRST</i> is a Time. <i>TODRST</i> is optional.
DATSTCHG	Date of last state change of port. Date MM-DD. Currently applies to ethernet user ports only. <i>DATSTCHG</i> is a Date. <i>DATSTCHG</i> is optional.
TODSTCHG	Time of last state change of port. Time HH-MM-SS. Currently applies to ethernet user ports only. <i>TODSTCHG</i> is a Date. <i>TODSTCHG</i> is optional.
INUCPKT	InUniCastPkts <i>INUCPKT</i> is a String. <i>INUCPKT</i> is optional.
INMCPKT	InMulticastPkts Currently applies to ethernet user ports only. <i>INMCPKT</i> is a String. <i>INMCPKT</i> is optional.
INBCPKT	InBroadcastPkts Currently applies to ethernet user ports only. <i>INBCPKT</i> is a String. <i>INBCPKT</i> is optional.
OUTUCPKT	OutUnicastPkts <i>OUTUCPKT</i> is a String. <i>OUTUCPKT</i> is optional.
OUTMCPKT	OutMultiCastPkts Currently applies to ethernet user ports only. <i>OUTMCPKT</i> is a String. <i>OUTMCPKT</i> is optional.
OUTBCPKT	OutBroadcastPkts Currently applies to ethernet user ports only. <i>OUTBCPKT</i> is a String. <i>OUTBCPKT</i> is optional.
INOCT	InOctets <i>INOCT</i> is a String. <i>INOCT</i> is optional.
OUTOCT	OutOctets <i>OUTOCT</i> is a String. <i>OUTOCT</i> is optional.
INERR	InErrors. <i>INERR</i> is a String. <i>INERR</i> is optional.
OUTERR	OutErrors. <i>OUTERR</i> is a String. <i>OUTERR</i> is optional.
PROTUNK	Unknown Protocols. <i>PROTUNK</i> is a String. <i>PROTUNK</i> is optional.
ALIGNERR	Alignment Errors. Currently applies to ethernet user ports only. <i>ALIGNERR</i> is a String. <i>ALIGNERR</i> is optional.
FCSERR	FCS Errors. Currently applies to ethernet user ports only. <i>FCSERR</i> is a String. <i>FCSERR</i> is optional.
SINGCOLL	Single Collisions. Currently applies to ethernet user ports only. <i>SINGCOLL</i> is a String. <i>SINGCOLL</i> is optional.
MULTICOLL	Multiple Collisions. Currently applies to ethernet user ports only. <i>MULTICOLL</i> is a String. <i>MULTICOLL</i> is optional.
SQETEST	SQE Test Errors. Currently applies to ethernet user ports only. <i>SQETEST</i> is a String. <i>SQETEST</i> is optional.
DEFERRED	Deferred. Currently applies to ethernet user ports only. <i>DEFERRED</i> is a String. <i>DEFERRED</i> is optional.
LATECOLL	Late Collisions. Currently applies to ethernet user ports only. <i>LATECOLL</i> is a String.

LATECOLL is optional.

XSCOLL	Excess Collisions. Currently applies to ethernet user ports only. <i>XSCOLL</i> is a String. <i>XSCOLL</i> is optional.
TOOLONG	Frames Too Long. Currently applies to ethernet user ports only. <i>TOOLONG</i> is a String. <i>TOOLONG</i> is optional.
INDISCARD	The number of input datagrams discarded for internal reasons (e.g. lack of buffer space). <i>INDISCARD</i> is a String. <i>INDISCARD</i> is optional.
OUTDISCARD	<i>OUTDISCARD</i> is a String. <i>OUTDISCARD</i> is optional.
INPKT	This counter contains the number of frames that were received properly from the link. It is updated only after the actual reception from the link is completed and all the data bytes are stored in memory. This applies to the user interfaces on the AMP only (MS-E1/E2/E3) <i>INPKT</i> is a String. <i>INPKT</i> is optional.
OUTPKT	This counter contains the number of frames that were transmitted properly on the link. It is updated only after the actual transmission on the link is completed, not when the frame was read from memory. This applies to the user interfaces on the AMP only (MS-E1/E2/E3) <i>OUTPKT</i> is a String. <i>OUTPKT</i> is optional.
TXINTERR	Transmit Internal Errors: Applies to E1 & E2 ports on the AMP only. These errors include the following: TxUnderrun - A transmit underrun occurs because the system bus cannot keep up with the transmission. This counter contains the number of frames that were either not transmitted or retransmitted due to a transmit DMA underrun. TxLostCarrierSense - This counter contains the number of frames that were transmitted by the 82551IT despite the fact that it detected the de-assertion of CRS during the transmission TxPause - This counter contains the number of Flow Control frames transmitted by the 82551IT. This count includes both the Xoff frames transmitted and Xon (PAUSE(0)) frames transmitted; <i>TXINTERR</i> is a String. <i>TXINTERR</i> is optional.
RXINTERR	Applies to E1 & E2 ports on the AMP only. Receive Internal Errors. These include the following types of errors: RxResourceErrors - This counter contains the number of good frames discarded due to unavailability of resources. RxOverrun - This counter contains the number of frames known to be lost because the local system bus was not available. RxRunt - A transmit underrun occurs because the system bus cannot keep up with the transmission RxPause - This counter contains the number of Flow Control frames received by the 82551IT. This count includes both the Xoff frames received and Xon (PAUSE(0)) frames received RxUnsuppMacCtl - This counter contains the number of MAC Control frames received by the 82551IT that are not Flow Control Pause frames. These frames are valid MAC control frames that have the predefined MAC control Type value and a valid address but has an unsupported opcode. <i>RXINTERR</i> is a String. <i>RXINTERR</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-4-3-4::MAC=01-23-45-67-89-
AB,LINK=DOWN,SPD=AUTO,DPLX=AUTO,DATRST=05-12,
    TODRST=10-53,DATSTCHG=05-20,TODSTCHG=11-11,INUCPKT=1,INMCPKT=2,
INBCPKT=3,OUTUCPKT=4,OUTMCPKT=5,OUTBCPKT=6,INOCT=7,OUTOCT=8,INERR=1,
OUTERR=2,PROTUNK=3,ALIGNERR=5,FCSERR=6,SINGCOLL=7,MULTICOLL=8,SQTEST=9,
DEFERRED=9,LATECOLL=4,XSCOLL=5,TOOLONG=6,INDISCARD=0,OUTDISCARD=0,
    INPKT=0,OUTPKT=0,TXINTERR=0,RXINTERR=0"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-STAT-HPNA

Name

RTRV-STAT-HPNA: Retrieve STAT HPNA

Description

Category: PON **Security:** Testing

Retrieves the HPNA performance statistics on any HPNA supported port of an ONT.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV ONT	REPT RMV RFVID
REPT RST AVO	REPT RST ONT
REPT RST RFVID	RMV-AVO
RMV-ONT	RMV-RFVID
RST-AVO	RST-ONT
RST-RFVID	RTRV-ALM-AVO

[RTRV-ALM-ONT](#)
[RTRV-ALM-VCG](#)
[RTRV-AVO](#)
[RTRV-COND-VCG](#)
[RTRV-GOS-ONT](#)
[RTRV-ONT](#)
[RTRV-PM-ONT](#)
[RTRV-RFVID](#)
[RTRV-VCG](#)
[RTRV-VRP](#)

[RTRV-ALM-RFVID](#)
[RTRV-ALM-VRP](#)
[RTRV-COND-ONT](#)
[RTRV-COND-VRP](#)
[RTRV-IG-VDS1](#)
[RTRV-ONT-UA](#)
[RTRV-PROF-ONT](#)
[RTRV-STAT-RFR](#)
[RTRV-VDS1](#)
[TST-ONT-MET](#)

Input Format

```
RTRV-STAT-HPNA:[TID]:<OntEthPortAid>:[CTAG];
```

Input Parameters

OntEthPortAid Access identifier for HPNA performance statistics on any HPNA supported ETH port on the ONT. *OntEthPortAid* is the AID [OntPortRngAid](#) and is listable and rangeable. *OntEthPortAid* must not be null.

Input Example

```
RTRV-STAT-HPNA:SYS1:N1-1-20-1-2-2:234;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD

"<OntEthPortAid>:[ [ ID=<ID>, ][ MACADDR=<MACADDR>, ][ VERSION=<VERSION>, ]
[ MASTER=<MASTER>, ][ CTLREQ=<CTLREQ>, ][ CTLREPLY=<CTLREPLY>, ]
[ REMCTLREQ=<REMCTLREQ>, ][ REMCTLREPLY=<REMCTLREPLY>, ][ TXPKT=<TXPKT>, ]
[ RXPKT=<RXPKT>, ][ TXBYTE=<TXBYTE>, ][ RXBYTE=<RXBYTE>, ][ TXBCAST=<TXBCAST>, ]
[ RXBCAST=<RXBCAST>, ][ TXMCICAST=<TXMCICAST>, ][ RXMCICAST=<RXMCICAST>, ]
[ TXSHORT=<TXSHORT>, ][ RXSHORT=<RXSHORT>, ][ TXDROP=<TXDROP>, ]
[ RXDROP=<RXDROP>, ][ RXCRC=<RXCRC>, ][ NUMMACFWD=<NUMMACFWD>, ]
[ MACFWDTBL=<MACFWDTBL> ] ]"
;
```

Output Parameters

OntEthPortAid	Access identifier for HPNA performance statistics on an HPNA supported ETH port on ONT. <i>OntEthPortAid</i> is the AID OntPortAid .
ID	HPNA Client Id. <i>ID</i> is a Integer. <i>ID</i> is optional.
MACADDR	MAC address of the HPNA device from which this data set was retrieved. <i>MACADDR</i> is the AID MacAid . <i>MACADDR</i> is optional.

VERSION	Encoded version in hexadecimal value. Format: 00kkllmm kk - major revision level ll - minor revision level mm - sub-minor revision level <i>VERSION</i> is a String. <i>VERSION</i> is optional.
MASTER	Indicates that the HPNA device is functioning as an HPNA network master node. <i>MASTER</i> is of type BoolYN . <i>MASTER</i> is optional.
CTLREQ	Number of control link packet requests received by the HPNA device. This is a monotonically increasing counter. <i>CTLREQ</i> is a Integer. <i>CTLREQ</i> is optional.
CTLREPLY	Number of control link packet replies transmitted by the HPNA device. This is a monotonically increasing counter. <i>CTLREPLY</i> is a Integer. <i>CTLREPLY</i> is optional.
REMCTLREQ	Number of control link packet requests from a remote device received by the HPNA device. This is a monotonically increasing counter. <i>REMCTLREQ</i> is a Integer. <i>REMCTLREQ</i> is optional.
REMCTLREPLY	Number of control link packet replies from a remote device received by the HPNA device. This is a monotonically increasing counter. <i>REMCTLREPLY</i> is a Integer. <i>REMCTLREPLY</i> is optional.
TXPKT	Number of packets transmitted on the RF network by the HPNA device. This is a monotonically increasing counter. <i>TXPKT</i> is a Integer. <i>TXPKT</i> is optional.
RXPKT	Number of packets received from the RF network by the HPNA device. This is a monotonically increasing counter. <i>RXPKT</i> is a Integer. <i>RXPKT</i> is optional.
TXBYTE	Number of bytes transmitted on the RF network by the HPNA device. This is a monotonically increasing counter. <i>TXBYTE</i> is a Integer. <i>TXBYTE</i> is optional.
RXBYTE	Number of bytes received on the RF network by the HPNA device. This is a monotonically increasing counter. <i>RXBYTE</i> is a Integer. <i>RXBYTE</i> is optional.
TXBCAST	Number of broadcast packets transmitted on the RF network by the HPNA device. This is a monotonically increasing counter. <i>TXBCAST</i> is a Integer. <i>TXBCAST</i> is optional.
RXBCAST	Number of broadcast packets received from the RF network by the HPNA device. This is a monotonically increasing counter. <i>RXBCAST</i> is a Integer. <i>RXBCAST</i> is optional.
TXMCAST	Number of multicast packets transmitted on the RF network by the HPNA device. This is a monotonically increasing counter. <i>TXMCAST</i> is a Integer. <i>TXMCAST</i> is optional.
RXMCAST	Number of multicast packets received from the RF network by the HPNA device. This is a monotonically increasing counter. <i>RXMCAST</i> is a Integer. <i>RXMCAST</i> is optional.
TXSHORT	Number of transmit packets that were short. This is a monotonically increasing counter. <i>TXSHORT</i> is a Integer. <i>TXSHORT</i> is optional.
RXSHORT	Number of received packets that were short. This is a monotonically increasing counter. <i>RXSHORT</i> is a Integer. <i>RXSHORT</i> is optional.
TXDROP	Number of transmit packets that were dropped. This is a monotonically increasing counter. <i>TXDROP</i> is a Integer. <i>TXDROP</i> is optional.
RXDROP	Number of receive packets that were dropped. This is a monotonically increasing counter. <i>RXDROP</i> is a Integer. <i>RXDROP</i> is optional.
RXCRC	Number of received packets that had a CRC error. This is a monotonically

increasing counter. *RXCRC* is a Integer. *RXCRC* is optional.

NUMMACFWD	Number of entries in the MAC forwarding table for the HPNA device. <i>NUMMACFWD</i> is a Integer. <i>NUMMACFWD</i> is optional.
MACFWDTBL	Embedded table containing up to 16 MAC forwarding entries for the HPNA device. <i>MACFWDTBL</i> is the AID MacAid and is listable. <i>MACFWDTBL</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-1-20-1-2-2::ID=1,MACADDR=10-83-1-10-11-
255,VERSION=00020305,MASTER=Y,
CTLREQ=1,CTLREPLY=12,REMCTLREQ=123,REMCTLREPLY=4,TXPKT=456,RXPKT=7,
TXBYTE=78,RXBYTE=789,TXBCAST=246,RXBCAST=468,TXMCAST=135,RXMCAST=357,
TXSHORT=0,RXSHORT=0,TXDROP=0,RXDROP=0,RXCRC=791,NUMMACFWD=1,
MACFWDTBL=10-83-4-11-13-255"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-STAT-IP

Name

RTRV-STAT-IP: Retrieve STAT IP

Description

Category: IP **Security:** Testing

Retrieve the IP layer packet statistics collected on the IRC.

Input Format

```
RTRV-STAT-IP:[TID]:<PpRngAid>:[CTAG];
```

Input Parameters

PpRngAid Pseudoport Access Identifier on an IRC or Ge-2p *PpRngAid* is the AID [Pp1RngAid](#) and is listable and rangeable. *PpRngAid* must not be null.

Input Example

```
RTRV-STAT-IP:SYS1:N1-1-3-PP1:5;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<PpAid>:: [ [ INPKT=<INPKT>, ] [ HNDLERR=<HNDLERR>, ] [ ADDRERR=<ADDRERR>, ]
[ PROTUNK=<PROTUNK>, ] [ INDISCARD=<INDISCARD>, ] [ INDELIVER=<INDELIVER>, ]
[ OUTPKT=<OUTPKT>, ] [ OUTDISCARD=<OUTDISCARD>, ] [ NOROUTE=<NOROUTE> ] ] "
;
```

Output Parameters

PpAid	Pseudoport Access Identifier of the IRC or Ge-2p <i>PpAid</i> is the AID Pp1RngAid .
INPKT	InPackets : Total packets (good or bad) received <i>INPKT</i> is a String. <i>INPKT</i> is optional.
HNDLERR	The number of input datagrams discarded due to errors in their IP headers, including bad checksums, version number mismatch, other format errors, time-to-live exceeded, errors discovered in processing their IP options, etc. <i>HNDLERR</i> is a String. <i>HNDLERR</i> is optional.
ADDRERR	The number of input datagrams discarded because the IP address in their IP header's destination field was not a valid address to be received at this entity. This count includes invalid addresses (e.g., 0.0.0.0) and addresses of unsupported Classes (e.g., Class E). For entities which are not IP routers and therefore do not forward datagrams, this counter includes datagrams discarded because the destination address was not a local address <i>ADDRERR</i> is a String. <i>ADDRERR</i> is optional.
PROTUNK	Unknown Protocols: For packet-oriented interfaces, the number of packets received via the interface which were discarded because of an unknown or unsupported protocol. For character-oriented or fixed-length interfaces that support protocol multiplexing the number of transmission units received via the interface which were discarded because of an unknown or unsupported protocol. For any interface that does not support protocol multiplexing, this counter will always be 0. Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of ifCounterDiscontinuityTime <i>PROTUNK</i> is a String. <i>PROTUNK</i> is optional.
INDISCARD	The number of inbound packets which were chosen to be discarded even though no errors had been detected to prevent their being deliverable to a higher-layer protocol. One possible reason for discarding such a packet could be to free up buffer space. Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of ifCounterDiscontinuityTime." <i>INDISCARD</i> is a String. <i>INDISCARD</i> is optional.
INDELIVER	InDeliver: The total number of input datagrams successfully delivered to IP user-protocol <i>INDELIVER</i> is a String. <i>INDELIVER</i> is optional.
OUTPKT	OutPkt: Total Packets Sent to the lower layer <i>OUTPKT</i> is a String. <i>OUTPKT</i> is optional.

OUTDISCARD OutDiscard: The number of outbound packets which were chosen to be discarded even though no errors had been detected to prevent their being transmitted. One possible reason for discarding such a packet could be to free up buffer space. Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of ifCounterDiscontinuityTime. *OUTDISCARD* is a String. *OUTDISCARD* is optional.

NOROUTE NoRoute: The number of IP datagrams discarded because no route could be found to transmit them to their destination. Note that this counter includes any packets counted in ipForwDatagrams which meet this 'no-route' criterion. Note that this includes any datagrams which a host cannot route because all of its default routers are down. *NORROUTE* is a String. *NORROUTE* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-1-3-
PP1::INPKT=75308,HNDLERR=0,ADDRERR=2,PROTUNK=0,INDISCARD=0,
INDELIVER=75308,OUTPKT=84820,OUTDISCARD=0,NORROUTE=0"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-STAT-PPPOA

Name

RTRV-STAT-PPPOA: Retrieve STAT PPPOA

Description

Category: PPPOE **Security:** Testing

Retrieve PPPoA Statistics on a Virtual Bridge.

Input Format

```
RTRV-STAT-PPPOA:[TID]:<VbAid>:[CTAG];
```

Input Parameters

VbAid *VbAid* is the AID [PppoaAid](#) and is listable. *VbAid* must not be null.

Input Example

```
RTRV-STAT-PPPOA:SYS3:N3-2-VB2:229;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<VbAid>::[ [ PADI=<PADI>, ] [ PADO=<PADO>, ] [ PADR=<PADR>, ] [ PADS=<PADS>, ]
[ PADT=<PADT>, ] [ INITSESS=<INITSESS>, ] [ CREATESESS=<CREATESESS>, ]
[ ACTIVESESS=<ACTIVESESS> ] ]"
;
```

Output Parameters

VbAid	<i>VbAid</i> is the AID VbAid .
PADI	The number of PADI packets that were locally generated on behalf of PPPoA subscriber LCP Configuration Requests. <i>PADI</i> is a Integer. <i>PADI</i> is optional.
PADO	The number of PADO packets that were addressed directly to this network interface related for PPPoA translations. <i>PADO</i> is a Integer. <i>PADO</i> is optional.
PADR	The number of Total PADR packets that were generated by Pppoe Relay Agent on C7 for PPPoA/oE translations <i>PADR</i> is a Integer. <i>PADR</i> is optional.
PADS	The number of PADS packets that were addressed directly to this network interface for PPPoA translations <i>PADS</i> is a Integer. <i>PADS</i> is optional.
PADT	The number of PADT packets that were directly addressed to this network interface. <i>PADT</i> is a Integer. <i>PADT</i> is optional.
INITSESS	The number of sessions that were initiated (INITSESS) to support a PPPoA/PPPoE translation. <i>INITSESS</i> is a Integer. <i>INITSESS</i> is optional.
CREATESESS	The number of sessions that were created (CREATESESS) to support a PPPoA/PPPoE translation <i>CREATESESS</i> is a Integer. <i>CREATESESS</i> is optional.
ACTIVESESS	The number of active sessions (ACTIVESESS) where PPPoA/PPPoE translation is in use <i>ACTIVESESS</i> is a Integer. <i>ACTIVESESS</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-2-
VB2::PADI=1,PADO=1,PADR=1,PADS=1,PADT=1,INITSESS=2,CREATESESS=1,
ACTIVESESS=1"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-STAT-PPPOE

Name

RTRV-STAT-PPPOE: Retrieve STAT PPPOE

Description

Category: PPPOE **Security:** Testing

The RTRV-STATS-PPPOE command will allow the user to retrieve the protocol statistics for a given Virtual Bridge.

Input Format

```
RTRV-STAT-PPPOE:[TID]:<VbAid>:[CTAG];
```

Input Parameters

VbAid *VbAid* is the AID [PppoeRtrAid](#) and is listable. *VbAid* must not be null.

Input Example

```
RTRV-STAT-PPPOE:SYS3:N3-2-VB4:229;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD

"<VbAid>::[ [BADVER=<BADVER>, ][BADTYPE=<BADTYPE>, ][BADCODE=<BADCODE>, ]
[PADI=<PADI>, ][PADO=<PADO>, ][PADR=<PADR>, ][PADS=<PADS>, ][PADT=<PADT>, ]
[BADPADI=<BADPADI>, ][BADPADO=<BADPADO>, ][BADPADR=<BADPADR>, ]
[BADPADS=<BADPADS>, ][BADPADT=<BADPADT>, ][INITSESS=<INITSESS>, ]
[CREATESESS=<CREATESESS>, ][ACTIVESESS=<ACTIVESESS>] ]"
;
```

Output Parameters

VbAid *VbAid* is the AID [VbAid](#).

BADVER Packets with unsupported PPPoE Version field *BADVER* is a String. *BADVER* is optional.

BADTYPE Packets with unsupported PPPoE Type field *BADTYPE* is a String. *BADTYPE* is

optional.

BADCODE	Packets with undefined PPPoE Code field <i>BADCODE</i> is a String. <i>BADCODE</i> is optional.
PADI	Total PADI Packets(PADI - PPPoE Active Discovery Initiation) <i>PADI</i> is a String. <i>PADI</i> is optional.
PADO	Total PADO packets (PADO - PPPoE Active Discovery Offer) <i>PADO</i> is a String. <i>PADO</i> is optional.
PADR	Total PADR packets (PADR - PPPoE Active Discovery Request) <i>PADR</i> is a String. <i>PADR</i> is optional.
PADS	Total PADS packets (PADS - PPPoE Active Discovery Session Confirmation) <i>PADS</i> is a String. <i>PADS</i> is optional.
PADT	Total PADT packets (PADT - PPPoE Active Discovery Termination) <i>PADT</i> is a String. <i>PADT</i> is optional.
BADPADI	Malformed PADI packets <i>BADPADI</i> is a String. <i>BADPADI</i> is optional.
BADPADO	Malformed PADO packets <i>BADPADO</i> is a String. <i>BADPADO</i> is optional.
BADPADR	Malformed PADR packets <i>BADPADR</i> is a String. <i>BADPADR</i> is optional.
BADPADS	Malformed PADS packets <i>BADPADS</i> is a String. <i>BADPADS</i> is optional.
BADPADT	Malformed PADT packets <i>BADPADT</i> is a String. <i>BADPADT</i> is optional.
INITSESS	Total sessions initiated (PADI triggered a record create) <i>INITSESS</i> is a String. <i>INITSESS</i> is optional.
CREATESESS	Total sessions created (PADS successfully processed) <i>CREATESESS</i> is a String. <i>CREATESESS</i> is optional.
ACTIVESESS	Total sessions currently active (programmed in NPU) <i>ACTIVESESS</i> is a String. <i>ACTIVESESS</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "N3-2-
VB4:::BADVER=1,BADTYPE=1,BADCODE=1,PADI=1,PADO=1,PADR=1,PADS=1,PADT=1,
  BADPADI=1,BADPADO=1,BADPADR=1,BADPADS=1,BADPADT=1,INITSESS=2,
  CREATESESS=1,ACTIVESESS=1"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-STAT-PPPOEAC

Name

RTRV-STAT-PPPOEAC: Retrieve STAT PPPOEAC

Description

Category: PPPOE **Security:** Testing

This command retrieves statistics for each Access Concentrator on a Virtual Bridge.

Input Format

```
RTRV-STAT-PPPOEAC:[TID]:<MACAID>:[CTAG]:::VBAID=<VBAID>;
```

Input Parameters

MACAID This is the Ethernet Address of the AC as learned from the PPPoE Discovery packet
MACAID is the AID [MacRngAid](#) and is listable. *MACAID* must not be null.

VBAID *VBAID* is the AID [PppoeAcStatAid](#). *VBAID* must not be null.

Input Example

```
RTRV-STAT-PPPOEAC:SYS3:01-23-45-67-89-AB:229:::VBAID=N3-2-VB2;;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD

"MAC=<MACAID>::[ [VBAID=<VBAID>, ][PADI=<PADI>, ][PADO=<PADO>, ][PADR=<PADR>, ]
[PADS=<PADS>, ][RXPADT=<RXPADT>, ][TXPADT=<TXPADT>, ][PADITS=<PADITS>, ]
[PADOTS=<PADOTS>, ][PADRTS=<PADRTS>, ][PADSTS=<PADSTS>, ]
[PADTRCVDTS=<PADTRCVDTS>, ][PADTSENTTS=<PADTSENTTS>, ]
[CREATESESS=<CREATESESS>, ][ACTIVESESS=<ACTIVESESS>]]"
```

Output Parameters

MACAID	This is the Ethernet Address of the AC as learned from the PPPoE Discovery packet <i>MACAID</i> is the AID MacAid .
VBAID	<i>VBAID</i> is the AID VbAid . <i>VBAID</i> is optional.
PADI	PADI packets received by AC (PADI - PPPoE Active Discovery Initiation) <i>PADI</i> is a String. <i>PADI</i> is optional.
PADO	PADO packets sent by AC (PADO - PPPoE Active Discovery Offer) <i>PADO</i> is a String. <i>PADO</i> is optional.
PADR	PADR packets received by AC (PADR - PPPoE Active Discovery Request) <i>PADR</i> is a String. <i>PADR</i> is optional.

PADS	PADS packets sent by AC (PADS - PPPoE Active Discovery Session Confirmation) <i>PADS</i> is a String. <i>PADS</i> is optional.
RXPADT	PADT packets received by AC <i>RXPADT</i> is a String. <i>RXPADT</i> is optional.
TXPADT	PADT packets sent by AC <i>TXPADT</i> is a String. <i>TXPADT</i> is optional.
PADITS	Timestamp of last PADI packet received by AC. <i>PADITS</i> is of format "Date Time" (yr-mon-day hr-min-sec) <i>PADITS</i> is a String. <i>PADITS</i> is optional.
PADOTS	Timestamp of last PDO packet sent by AC. <i>PADOTS</i> is of format "Date Time" (yr-mon-day hr-min-sec) <i>PADOTS</i> is a String. <i>PADOTS</i> is optional.
PADRTS	Timestamp of last PADR packet received by AC. <i>PADRTS</i> is of format "Date Time" (yr-mon-day hr-min-sec) <i>PADRTS</i> is a String. <i>PADRTS</i> is optional.
PADSTS	Timestamp of last PADS packet sent by AC. <i>PADSTS</i> is of format "Date Time" (yr-mon-day hr-min-sec) <i>PADSTS</i> is a String. <i>PADSTS</i> is optional.
PADTRCVDTS	Timestamp of last PADT packet received by AC. <i>PADTRCVDTS</i> is of format "Date Time" (yr-mon-day hr-min-sec) <i>PADTRCVDTS</i> is a String. <i>PADTRCVDTS</i> is optional.
PADTSENTTS	Timestamp of last PADT packet sent by AC. <i>PADTSENTTS</i> is of format "Date Time" (yr-mon-day hr-min-sec) <i>PADTSENTTS</i> is a String. <i>PADTSENTTS</i> is optional.
CREATESESS	Sessions successfully created <i>CREATESESS</i> is a String. <i>CREATESESS</i> is optional.
ACTIVESESS	Sessions currently active <i>ACTIVESESS</i> is a String. <i>ACTIVESESS</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "MAC=01-23-45-67-89-AB::VBAID=N3-2-
VB2,PADI=1,PADO=1,PADR=1,PADS=1,
  RXPADT=1,TXPADT=1,PADITS="05-10-22 22-55-00",PADOTS="05-
10-22 22-55-00",
  PADRTS="05-10-22 22-55-00",PADSTS="05-10-22 22-55-00",
  PADTRCVDTS="05-10-22 22-55-00",PADTSENTTS="05-10-22 22-55-
00",
  CREATESESS=1,ACTIVESESS=1"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-STAT-RFR

Name

RTRV-STAT-RFR: Retrieve STAT RF Video Return

Description

Category: PON **Security:** Testing

Retrieve Status, RF Video Return

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV ONT	REPT RMV RFVID
REPT RST AVO	REPT RST ONT
REPT RST RFVID	RMV-AVO
RMV-ONT	RMV-RFVID
RST-AVO	RST-ONT
RST-RFVID	RTRV-ALM-AVO
RTRV-ALM-ONT	RTRV-ALM-RFVID
RTRV-ALM-VCG	RTRV-ALM-VRP
RTRV-AVO	RTRV-COND-ONT
RTRV-COND-VCG	RTRV-COND-VRP
RTRV-GOS-ONT	RTRV-IG-VDS1
RTRV-ONT	RTRV-ONT-UA
RTRV-PM-ONT	RTRV-PROF-ONT
RTRV-RFVID	RTRV-STAT-HPNA
RTRV-VCG	RTRV-VDS1
RTRV-VRP	TST-ONT-MET

Input Format

RTRV-STAT-RFR:[TID]:<OntRngAid>:[CTAG];

Input Parameters

OntRngAid *OntRngAid* is the AID [OntRngAid](#) and is listable and rangeable. *OntRngAid* must not be null.

Input Example

```
RTRV-STAT-RFR:SYS1:N1-1-3-11-2-24:5;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<OntAid>::[ [ STATE=<STATE> , ] [ BURST=<BURST> ] ] "
;
```

Output Parameters

OntAid *OntAid* is the AID [OntAid](#).

STATE RF Video Return laser state. *STATE* is of type [OntRfrStat](#). *STATE* is optional.

BURST Burst count. *BURST* is a Integer. *BURST* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-1-3-11-2-24::STATE=ACTIVE,BURST=532"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-STAT-UDP

Name

RTRV-STAT-UDP: Retrieve STAT UDP

Description

Category: IP **Security:** Testing

Retrieve the UDP layer packet statistics collected on the IRC.

Input Format

```
RTRV-STAT-UDP:[TID]:<PpRngAid>:[CTAG];
```

Input Parameters

PpRngAid Pseudoport Access Identifier on an IRC or Ge-2p *PpRngAid* is the AID [Pp1RngAid](#) and is listable and rangeable. *PpRngAid* must not be null.

Input Example

```
RTRV-STAT-UDP:SYS1:N1-1-3-PP1:5;
```

Output Format

```
    SID DATE TIME
M    CTAG COMPLD
    "<PpAid>:: [[ INPKT=<INPKT>, ] [ NOAPP=<NOAPP>, ] [ INERR=<INERR>, ]
      [ OUTPKT=<OUTPKT>, ] [ OUTERR=<OUTERR> ] ]"
;
```

Output Parameters

PpAid Pseudoport Access Identifier on an IRC or Ge-2p *PpAid* is the AID [Pp1RngAid](#).

INPKT InPackets : Total packets (good or bad) received *INPKT* is a String. *INPKT* is optional.

NOAPP No application wants this packet *NOAPP* is a String. *NOAPP* is optional.

INERR The number of received UDP datagrams that could not be delivered for reasons other than the lack of an application at the destination port *INERR* is a String. *INERR* is optional.

OUTPKT Total Packets Sent to the lower layer *OUTPKT* is a String. *OUTPKT* is optional.

OUTERR For packet-oriented interfaces, the number of outbound packets that could not be transmitted because of errors. For character-oriented or fixed-length interfaces, the number of outbound transmission units that could not be transmitted because of errors. Discontinuities in the value of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of ifCounterDiscontinuityTime *OUTERR* is a String. *OUTERR* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "N1-1-3-
PP1::INPKT=52400,NOAPP=0,INERR=2,OUTPKT=64820,OUTERR=0"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-STATUS

Name

RTRV-STATUS: Retrieve STATUS

Description

Category: Security **Security:** Security Administrator

This command is used to retrieve the users session status which are currently active any one shelf in any node.

The security administrator can cancel any of the users sessions with the CANC-CID-SECU (Cancel Channel Security).

Defined in TR-835 and restricted in use by Calix.

Related Messages:

ALW-CMD-RESTR	ALW-MSG-SECU
ALW-USER-SECU	CANC-CID-SECU
CANC-SES-SECU	DLT-TMPLT-SECU
DLT-USER-SECU	ED-RADIUS
ED-SYS-SECU	ED-TMPLT-SECU
ED-USER-SECU	ENT-TMPLT-SECU
ENT-USER-SECU	INH-CMD-RESTR
INH-MSG-SECU	INH-USER-SECU
REPT ALM SECU	REPT EVT SECU
RTRV-ALM-SECU	RTRV-COND-SECU
RTRV-RADIUS	RTRV-SYS-SECU
RTRV-TMPLT-SECU	RTRV-USER-SECU

Input Format

RTRV-STATUS : [TID] : <MsAid> : [CTAG] ;
--

Input Parameters

MsAid Maintenance Slot Access Identifier. The address of the Maintenance Slot where the user's session is to be retrieved. *MsAid* is the AID [MsAllAid](#) and is listable. *MsAid* must not be null.

Input Example

```
RTRV-STATUS:SYS2:N3-4-MS:34;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<MsAid>:[<CID>,[<UID>],[<INTF>]:[[SDATE=<SDATE>],[STIME=<STIME>,
[ IDLE=<IDLE>,[INHMSG=<INHMSG>,[SECUMSG=<SECUMSG>,[RESTR=<RESTR>,
[UAPMA=<UAPMA>,[UAPMT=<UAPMT>,[UAPSE=<UAPSE>,[UAPSY=<UAPSY>,
[UAPTS=<UAPTS>,[LOCAL=<LOCAL>]]"
;
```

Output Parameters

MsAid	Maintenance Slot Access Identifier. The address of the maintenance slot where the user's session was retrieved. <i>MsAid</i> is the AID MsAid .
CID	Channel Identifier. This parameter indicates channel identifier where the user is logged in. <i>CID</i> is the AID CID . <i>CID</i> is optional.
UID	User's Identifier. The user's identifier who is logged into the specified channel. <i>UID</i> is the AID UserAid . <i>UID</i> is optional.
INTF	Interface. How is this user connected. <i>INTF</i> is of type UserInterfaceType . <i>INTF</i> is optional.
SDATE	Date that the session started. <i>SDATE</i> is a Date. <i>SDATE</i> is optional.
STIME	Time that the session started. <i>STIME</i> is a Time. <i>STIME</i> is optional.
IDLE	Minutes since last user activity. <i>IDLE</i> is a Integer. <i>IDLE</i> is optional.
INHMSG	Which events have been inhibited for this session using INH-MSG-ALL. <i>INHMSG</i> is of type NotificationInhNone . <i>INHMSG</i> is optional.
SECUMSG	Are Security Messages being received in this session? <i>SECUMSG</i> is of type BoolYN . <i>SECUMSG</i> is optional.
RESTR	Does the user have access to restricted commands/parameters ? (See INH/ALW-CMD-RESTR) <i>RESTR</i> is of type BoolYN . <i>RESTR</i> is optional.
UAPMA	User Access Privilege for Memory Administration. This parameter specifies the abilities of a user for executing memory administration commands. <i>UAPMA</i> is of type AcsPrv . <i>UAPMA</i> is optional.
UAPMT	User Access Privilege for MainTenance. This parameter specifies the abilities of a user for executing maintenance commands. <i>UAPMT</i> is of type AcsPrv . <i>UAPMT</i> is optional.
UAPSE	User Access Privilege for SEcurity. This parameter specifies the abilities of a user for executing security commands. <i>UAPSE</i> is of type AcsPrv . <i>UAPSE</i> is optional.

- UAPSY** User Access Privilege for SYstem. This parameter specifies the abilities of a user for executing system commands. *UAPSY* is of type [AcsPrv](#). *UAPSY* is optional.
- UAPTS** User Access Privilege for TeSting. This parameter specifies the abilities of a user for executing testing commands. *UAPTS* is of type [AcsPrv](#). *UAPTS* is optional.
- LOCAL** This parameter will show 'Y' for a locally-administered user, and 'N' for a user who is remotely administered (e.g. authenticated via RADIUS). *LOCAL* is of type [BoolYN](#). *LOCAL* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "N3-4-MS:N3-4-MS-S2,FRANK,TL1:SDATE=02-14-05,STIME=11-15,IDLE=15,
INHMSG=N,SECUMSG=N,RESTR=N,UAPMA=FULL,UAPMT=FULL,UAPSE=MIN,UAPSY=MIN,
UAPTS=FULL,LOCAL=Y"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-STP-GROUP

Name

RTRV-STP-GROUP: Retrieve Spanning Tree Group

Description

Category: IP **Security:** Memory Admin - read

Retrieve Spanning Tree Protocol Group.

Input Format

```
RTRV-STP-GROUP:[TID]:<StpGroupAid>:[CTAG];
```

Input Parameters

- StpGroupAid** Spanning Tree Protocol Range Group - used to retrieve a range of spanning tree protocol groups in the system. *StpGroupAid* is the AID [StpGroupRngAid](#). *StpGroupAid* must not be null.

Input Example

```
RTRV-STP-GROUP:SYS:N1-1-VB1-STP1:1234;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD
"<StpGroupAid>::[ [ STPTYPE=<STPTYPE>, ] [ HELLOTMR=<HELLOTMR>, ]
[ FWDDLYTMR=<FWDDLYTMR>, ] [ MAXAGETMR=<MAXAGETMR>, ] [ PRIO=<PRIO>, ]
[ ROOTMAC=<ROOTMAC>, ] [ LOCALMAC=<LOCALMAC>, ] [ PATHCOST=<PATHCOST>, ]
[ RTPORT=<RTPORT>, ] [ RTPORTPRIO=<RTPORTPRIO> ] ]"
;

```

Output Parameters

- StpGroupAid** Spanning Tree Protocol Group Access Identifier. *StpGroupAid* is the AID [StpGroupAid](#).
- STPTYPE** *STPTYPE* is of type [StpType](#). *STPTYPE* is optional.
- HELLOTMR** *HELLOTMR* is a Integer. *HELLOTMR* is optional.
- FWDDLYTMR** Monitors the time spent by a port in the learning and listening states. The timeout value is the forward delay parameter of the switches. This values is given in Seconds. *FWDDLYTMR* is a Integer. *FWDDLYTMR* is optional.
- MAXAGETMR** Measures the age of the received protocol information recorded for a port and ensure that this information is discarded when its age limit exceeds the value to the maximum age parameter recorded by the switch. The timeout value for this timer is the maximum age parameter of the switches. This values is given in Seconds. *MAXAGETMR* is a Integer. *MAXAGETMR* is optional.
- PRIO** *PRIO* is a Integer. *PRIO* is optional.
- ROOTMAC** *ROOTMAC* is the AID [MacAid](#). *ROOTMAC* is optional.
- LOCALMAC** *LOCALMAC* is the AID [MacAid](#). *LOCALMAC* is optional.
- PATHCOST** The cost of the path to the root from the transmitting port. *PATHCOST* is a Integer. *PATHCOST* is optional.
- RTPORT** Access Identifier of the Root port. *RTPORT* is the AID [SixPortLuAid](#). *RTPORT* is optional.
- RTPORTPRIO** Priority given to the root port. *RTPORTPRIO* is a Integer. *RTPORTPRIO* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-1-VB1-
STP1::STPTYPE=RSTP,HELLOTMR=20,FWDDLYTMR=30,MAXAGETMR=40,PRIO=1,
ROOTMAC=01-02-03-04-05-06,LOCALMAC=01-02-03-04-05-
06,PATHCOST=5,
RTPORT=N1-1-1-1,RTPORTPRIO=1"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-SUBIF-BINDING

Name

RTRV-SUBIF-BINDING: Retrieve SUBIF BINDING

Description

Category: Video **Security:** Memory Admin - read

Retrieve Sub-Interface Binding: this is used to retrieve the L3 Interface address that is bound to a physical location. Command available in release 4.1 and later.

Related Messages:

DLT-DHCP-OUI	DLT-IP-IF
DLT-IP-ROUTE	DLT-IPIF-PORT
DLT-SUBIF-BINDING	DLT-VID-CHAN
DLT-VID-IRCLOC	DLT-VID-SUB
DLT-VID-SVC	DLT-VODCLNT
DLT-VODDSTLU	DLT-VODFLOW
DLT-VODSRCLU	DLT-VODSVR
ED-ARP	ED-IPIF-PORT
ED-VID-CHAN	ED-VID-SUB
ED-VID-SVC	ED-VODDSTLU
ENT-DHCP-OUI	ENT-IP-IF
ENT-IP-ROUTE	ENT-IPIF-PORT
ENT-SUBIF-BINDING	ENT-VID-CHAN
ENT-VID-IRCLOC	ENT-VID-SUB
ENT-VID-SVC	ENT-VODDSTLU
REPT EVT VODFLOW	RTRV-ARP
RTRV-DHCP-LEASE	RTRV-DHCP-OUI
RTRV-IP-IF	RTRV-IP-ROUTE
RTRV-IPIF-PORT	RTRV-VID-CHAN
RTRV-VID-IRCLOC	RTRV-VID-SUB
RTRV-VID-SVC	RTRV-VODCLNT
RTRV-VODDSTLU	RTRV-VODFLOW

RTRV-VODSRCLURTRV-VODSVR**Input Format**

```
RTRV-SUBIF-
BINDING:[TID]:<PHYSLOC>:[CTAG]:::[RTRAID=<RTRAID>,][IP=<IP>]];
```

Input Parameters

PHYSLOC Physical Location Access Identifier - specifies the subscriber location scope. This AID can be ALL, Node, Shelf, Slot or Port or a range of the above AIDs. *PHYSLOC* is the AID [SubIfBindingRng](#) and is listable. *PHYSLOC* must not be null.

RTRAID This is the IRC slot location. *RTRAID* is the AID [SlotLuAid](#). A null value defaults to "ALL".

IP *IP* is the AID [IpAid](#). A null value defaults to "ALL".

Input Example

```
RTRV-SUBIF-BINDING:SYS1:N1-1-3-ALL:5:::RTRAID=N1-1-
3,IP=192.168.1.1;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<PHYSLOC>:::[RTRAID=<RTRAID>,][IP=<IP>]]"
;
```

Output Parameters

PHYSLOC Physical Location Access Identifier - specifies the subscriber location scope. This AID can be ALL, Node, Shelf, Slot or Port. *PHYSLOC* is the AID [SubIfBindingAid](#).

RTRAID This is the IRC slot location. *RTRAID* is the AID [SlotLuAid](#). *RTRAID* is optional.

IP *IP* is the AID [IpAid](#). *IP* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-1-3-7::RTRAID=N1-1-3,IP=192.168.1.1"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-SYS

Name

RTRV-SYS: Retrieve System

Description

Category: System **Security:** Memory Admin - read

This command retrieves parameters which apply to a C7 network as a whole.

Defined by Calix.

Related Messages:

ALW-STBY-UPGRD	DLT-ALM-SHELF
DLT-NODE	ED-DAT
ED-NODE	ED-SHELF
ED-SYS	ED-SYS-SECU
ENT-NODE	ENT-SHELF
INH-STBY-UPGRD	INIT-SYS
OPR-BAR	REPT ALM SHELF
REPT EVT MEM	REPT EVT SHELF
RTRV-ALM-SHELF	RTRV-BAR
RTRV-COND-SHELF	RTRV-HDR
RTRV-NETYPE	RTRV-NODE
RTRV-SHELF	RTRV-SYS-SECU

Input Format

```
RTRV-SYS:[TID]:::[CTAG];
```

Input Example

```
RTRV-SYS:SYS1:::3243;
```

Output Format

<pre> SID DATE TIME M CTAG COMPLD "::[[ADMIN=<ADMIN>,][TDBWC=<TDBWC>,][DEFONTPROF=<DEFONTPROF>,] [VCPOOL=<VCPOOL>,][VPPOOL=<VPPOOL>,][PROVLOCK=<PROVLOCK>,] </pre>
--

```
[ NTWKNAME=<NTWKNAME>, ] [ REVERTENABLED=<REVERTENABLED>, ]
[ ONTETHONBAT=<ONTETHONBAT>, ] [ ONTRFVIDONBAT=<ONTRFVIDONBAT> ] "
;
```

Output Parameters

ADMIN	Administrative Master. The Administrative Master is the location where data which is required to be maintained across the network is controlled. <i>ADMIN</i> is the AID ShelfAid . <i>ADMIN</i> is optional.
TDMBW C	Enable TDM bandwidth constraint. If set to Y, this will require that all TDM connections created using the ENT-CRS-T0 command to be routed via links that have some bandwidth reserved for the TDM Bandwidth Constraint Id. <i>TDMBW</i> C is of type BoolYN . <i>TDMBW</i> C is optional.
DEFONTPROF	Default ONT Profile. If set, this ONT profile will be used when not specified in ENT-ONT. <i>DEFONTPROF</i> is the AID SystemId1 . <i>DEFONTPROF</i> is optional.
VCPOOL	VCPOOL : Protected VC Label Space. The value for VCPOOL is an VPI number between 1 and 4094. VC Label space is defaulted to 4094 if no value is specified. This value can be modified to any available VPI number. Once VCPOOL is modified, the modified value will be used for subsequent protected connections, but will not modify any existing connections. <i>VCPOOL</i> is a String. <i>VCPOOL</i> is optional.
VPPOOL	VPPOOL : Protected VP Label Space. This label space range is used for internal VP creation. The values entered represent the start and end of the label space range and it can be any available range of VPI numbers. Once VPPOOL is modified, the modified values will be used for subsequent protected connections, but will not modify any existing connections. The default range for VPPOOL is 4000&&4090. <i>VPPOOL</i> is a String and is rangeable. <i>VPPOOL</i> is optional.
PROVLOCK	Provisioning Lock <i>PROVLOCK</i> is of type BoolYN . <i>PROVLOCK</i> is optional.
NTWKNAME	Network Name - 20 character string. <i>NTWKNAME</i> is a String. <i>NTWKNAME</i> is optional.
REVERTENABLED	Revert Enabled. The C7 periodically determines whether or not there is enough flash space available to support an upgrade and a full revert. If the C7 determines that there is not enough flash space available, the PROVCAPTHR or PROVCAPOVF alarm is raised. These alarms may be cleared by disabling the full revert capability by setting this flag to 'N'. <i>REVERTENABLED</i> is of type BoolYN . <i>REVERTENABLED</i> is optional.
ONTETHONBAT	This is the system default for determining if ONT Ethernet ports should remain enabled when the ONT is operating on battery backup. The default can be overridden on a per-port basis. <i>This feature is enabled in C7 release 5.2</i> <i>ONTETHONBAT</i> is of type BoolYN . <i>ONTETHONBAT</i> is optional.
ONTRFVIDONBAT	This is the system default for determining if ONT RFVID ports should remain enabled when the ONT is operating on battery backup. The default can be overridden on a per ONT port basis. <i>This feature is enabled in C7 release 5.2</i> <i>ONTRFVIDONBAT</i> is of type BoolYN . <i>ONTRFVIDONBAT</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
" ::ADMIN=N3-
1 , TDMBWC=Y , DEFONTPROF=2 , VCPOOL=1 , VPPOOL=1&&2 , PROVLOCK=N ,
NTWKNAME=NTWK1 , REVERTENABLED=Y , ONTETHONBAT=N , ONTRFVIDONBAT=N "
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-SYS-SECU

Name

RTRV-SYS-SECU: RTRV SYS SECU

Description

Category: Security **Security:** Memory Admin - read

This command is used to retrieve system-wide security settings.

Related Messages:

ALW-MSG-SECU	ALW-STBY-UPGRD
ALW-USER-SECU	CANC-CID-SECU
CANC-SES-SECU	DLT-ALM-SHELF
DLT-NODE	DLT-TMPLT-SECU
DLT-USER-SECU	ED-DAT
ED-NODE	ED-RADIUS
ED-SHELF	ED-SYS
ED-SYS-SECU	ED-TMPLT-SECU
ED-USER-SECU	ENT-NODE
ENT-SHELF	ENT-TMPLT-SECU
ENT-USER-SECU	INH-MSG-SECU
INH-STBY-UPGRD	INH-USER-SECU
INIT-SYS	OPR-BAR
REPT ALM SECU	REPT ALM SHELF
REPT EVT MEM	REPT EVT SECU

REPT EVT SHELF	RTRV-ALM-SECU
RTRV-ALM-SHELF	RTRV-BAR
RTRV-COND-SECU	RTRV-COND-SHELF
RTRV-HDR	RTRV-NETYPE
RTRV-NODE	RTRV-RADIUS
RTRV-SHELF	RTRV-STATUS
RTRV-SYS	RTRV-TMPLT-SECU
RTRV-USER-SECU	

Input Format

```
RTRV-SYS-SECU:[ TID ] :: [ CTAG ] ;
```

Input Example

```
RTRV-SYS-SECU:SYS3::34 ;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
" [ [ PIDLEN=<PIDLEN> , ] [ SPECIAL=<SPECIAL> , ] [ NONALPHA=<NONALPHA> , ]
[ SUBSTR=<SUBSTR> , ] [ MXINV=<MXINV> , ] [ SSH=<SSH> , ] [ AUTH=<AUTH> ,
[ AMPROUTER=<AMPROUTER> ] ] : [ <BANNER> ] "
;
```

Output Parameters

PIDLEN	PID LENgth. Minimum number of password characters - an integer in the range [4,10]. <i>PIDLEN</i> is a Integer. <i>PIDLEN</i> is optional.
SPECIAL	SPECIAL characters. Minimum number of special characters (i.e. "@ # \$ % [] ~ ! _ ? ") <i>SPECIAL</i> is a Integer. <i>SPECIAL</i> is optional.
NONALPHA	NON-ALPHAnumeric characters. Minimum number of non-alpha characters (special or numeric). <i>NONALPHA</i> is a Integer. <i>NONALPHA</i> is optional.
SUBSTR	SUBSTRing. Is the UID allowed as a substring of the PID ? <i>SUBSTR</i> is of type BoolYN . <i>SUBSTR</i> is optional.
MXINV	MaXimum INValid login attempts. A telnet session will be dropped upon this number of successive login failures. 2 <= <i>MXINV</i> <= 6. <i>MXINV</i> is a Integer. <i>MXINV</i> is optional.
SSH	Is Secure Shell access in effect? <i>SSH</i> is of type BoolYN . <i>SSH</i> is optional.
AUTH	User Authentication Mode. <i>AUTH</i> is of type UserAuthMode . <i>AUTH</i> is optional.
AMPROUTER	AMP as ROUTER. If enabled, static routes provisioned on an AMP will be used to route incoming packets from one management interface to another. If disabled, the AMP functions only as an IP host. <i>AMPROUTER</i> is of type BoolYN . <i>AMPROUTER</i> is optional.

BANNER BANNER String of up to 79 characters displayed upon each login. *BANNER* is a String. *BANNER* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD

"PIDLEN=4,SPECIAL=2,NONALPHA=2,SUBSTR=N,MXINV=3,SSH=N,AUTH=LOCAL,
AMPROUTER=N:"SECURITY BANNER"
;"
```

Errors

This message generates all of the [Default Errors](#).

RTRV-T0

Name

RTRV-T0: Retrieve Digital Signal Zero

Description

Category: DS0 Facility **Security:** Memory Admin - read

Retrieves parameters associated with a DS0 facility.

Defined in GR-199.

Related Messages:

DLT-CRS-T0	DLT-T0
ED-T0	ENT-CRS-T0
ENT-T0	REPT ALM T0
REPT EVT T0	REPT RMV T0
REPT RST T0	RMV-T0
RST-T0	RTRV-ALM-T0
RTRV-COND-T0	RTRV-CRS-T0
RTRV-CSTAT-T0	

Input Format

```
RTRV-T0:[TID]:<T0Aid>:[CTAG];
```

Input Parameters

T0Aid T0 Port Access Identifier. The access identifier of the T0 port being retrieved. *T0Aid* is the AID [TwentyFourPortLuNtwkRngAid](#) and is listable and rangeable. *T0Aid* must not be null.

Input Example

```
RTRV-T0:SYS3:N3-1-4-3:389;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<T0Aid>::[[CRV=<CRV>,][GSFN=<GSFN>],[RTLP=<RTLP>],[TTLP=<TTLP>],[Z=<Z>],
[EBSLVL=<EBSLVL>],[EFTT=<EFTT>],[RATE=<RATE>],[EC=<EC>],[ZCS=<ZCS>],
[SC=<SC>],[TIMEOUT=<TIMEOUT>],[LLBE=<LLBE>],[DDSTEST=<DDSTEST>],
[DESC=<DESC>]]:[<PST>],[<SST>]"
;
```

Output Parameters

- T0Aid** T0 Port Access Identifier. The access identifier of the T0 port retrieved. *T0Aid* is the AID [TwentyFourPortLuAid](#).
- CRV** Call Reference Value This value specifies which subscriber interface the T0 is in a particular GR-303 system. The parameter does not appear unless the T0 belongs to a GR-303 interface group. *CRV* is the AID [CrvAid](#). *CRV* is optional.
- GSFN** General Signaling Function. This indicates the signaling used by the T0 port, such as loop start, ground start, etc. Note: 4DU is valid for the OCUDPx6 line unit. 4D0 is valid for the DS0DPx6 line unit. *GSFN* is of type [GenSigFunction](#). *GSFN* is optional.
- RTLP** Receive Transmission Level Point. Transmission level point for receiving from the equipment. The transmission level point is the decibel value of the ratio of the power of a 1004 Hz signal at a point to the power of the same signal at a reference point on the digital side of the codec. Therefore, an increase in the RTLP will result in a gain toward the analog side. *RTLP* is of type [Rlp](#). *RTLP* is optional.
- TTLP** Transmit Transmission Level Point. Transmission level point for transmitting toward the equipment. The transmission level point is the decibel value of the ratio of the power of a 1004 Hz signal at a point to the power of the same signal at a reference point on the digital side of the codec. Therefore, an increase in the TTLP will result in a loss toward the digital side. *TTLP* is of type [Tlp](#). *TTLP* is optional.
- Z** Impedance. This parameter indicates the expected impedance of the line in Ohms. *Z* is of type [ImpedanceOhms](#). *Z* is optional.
- EBSLVL** Electronic Business Service LeVeL This attribute is only applicable to Nortel's Electronic Business Service. It specifies the level of the secondary signaling channel. *EBSLVL* is of type [EBSLvl](#). *EBSLVL* is optional.
- EFTT** Enable Full-Time Transmission. This attribute is set to Y to enable transmission of the audio channel even when the subscriber is on-hook and the phone has not recently been

rung. *EFTT* is of type [BoolYN](#). *EFTT* is optional.

RATE	Data Rate. Note: Changing rates terminates the loopbacks on an OCUDP line unit due to the required reset on hardware. <i>RATE</i> is of type DdsRate . <i>RATE</i> is optional.
EC	Error Correction. This parameter is valid if there are no cross connections. A value of EC=Y is invalid if one cross connection exists for 56 and 64 kbps rates and cross connect must be deleted first. EC=Y is also invalid if two cross connections exist for 2.4, 4.8, 9.6 and 19.2 kbps rates and cross connect must be deleted first. A value of EC=N is invalid if two cross connection exists at any data rates and cross connection must be deleted first. <i>EC</i> is of type BoolYN . <i>EC</i> is optional.
ZCS	Zero Code Supression. <i>ZCS</i> is of type BoolYN . <i>ZCS</i> is optional.
SC	Secondary Channel. This parameter is only valid for OCUDPx6 line unit. It can be entered for the DS0Dpx6 line unit, but it will be ignored. Note that SC=Y is invalid for 64 kbps rate. Also SC=N is always valid without any restrictions. <i>SC</i> is of type BoolYN . <i>SC</i> is optional.
TIMEOUT	Latching Loopback Timeout (in minutes). If TIMEOUT = 0, Latching loopback continues to operate, but it cancels the timer if active. If TIMEOUT > 0, the new timeout value is applied to the currently active latching loopback or subsequent loopback. If the new timeout value is greater than the previous value, the difference is applied to the currently outstanding timer. If the new timeout value is less than the previous value, the loopback terminates. If the new timeout value is the same as before, no further action is required. <i>TIMEOUT</i> is of type LatchLpbkTimeout . <i>TIMEOUT</i> is optional.
LLBE	Latching LoopBack Enable. <i>LLBE</i> is of type BoolYN . <i>LLBE</i> is optional.
DDSTEST	DDS Test Mode (DDS only). The DDS card supports two modes of loop testing: Bipolar (analog) and Logic Near/Far (digital TTY). This parameter indicates which mode is to be used. <i>DDSTEST</i> is of type DdsTest . <i>DDSTEST</i> is optional.
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String. <i>DESC</i> is optional.
PST	Primary Service State. This parameter specifies the overall service condition of the DS0. Note: For OOS, DDS service is disabled. For OCUDP, sealing current is removed. For IS, DDS service is enabled. For OCUDP, sealing current is applied. <i>PST</i> is of type PrimaryState . <i>PST</i> is optional.
SST	Secondary Service State. This parameter provides additional state information that is relevant. <i>SST</i> is of type SecondaryState and is listable. <i>SST</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-1-4-3::CRV=N4-2-IG3-
345,GSFN=2LS,RTLP=2.5,TTLP=3.0,Z=900,EBSLVL=AUTO,
EFTT=N,RATE=64,EC=N,ZCS=Y,SC=N,TIMEOUT=0,LLBE=Y,DDSTEST=DIGITAL,
DESC="DESCRIPTION":IS-NR,RDLD"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-T1

Name

RTRV-T1: Retrieve Digital Signal One

Description

Category: DS1 Facility **Security:** Memory Admin - read

Retrieves parameters associated with a DS1 facility.

Defined in GR-199.

Related Messages:

[DLT-AP-T1](#)

[DLT-CRS-T1](#)

[DLT-GOS-T1](#)

[DLT-T1](#)

[ED-GOS-T1](#)

[ED-T1](#)

[ENT-AP-T1](#)

[ENT-CRS-T1](#)

[ENT-GOS-T1](#)

[ENT-T1](#)

[INIT-REG-T1](#)

[OPR-LPBK-T1](#)

[REPT ALM T1](#)

[REPT EVT T1](#)

[REPT RMV T1](#)

[REPT RST T1](#)

[RLS-LPBK-T1](#)

[RMV-T1](#)

[RST-T1](#)

[RTRV-ALM-T1](#)

[RTRV-COND-T1](#)

[RTRV-CRS-T1](#)

[RTRV-GOS-T1](#)

[RTRV-PM-T1](#)

Input Format

RTRV-T1:[TID]:<Ds1Aid>:[CTAG];

Input Parameters

Ds1Aid T1 Port Access Identifier. The address of the T1 port being retrieved. *Ds1Aid* is the AID [TwelvePortLuNtwkRngAid](#) and is listable and rangeable. *Ds1Aid* must not be null.

Input Example

RTRV-T1:SYS3:N3-4-3-2:555;

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<Ds1Aid>::[[TYPE=<TYPE>,[T1MAP=<T1MAP>,[EQLZ=<EQLZ>,[ATTEN=<ATTEN>,
[PWR=<PWR>,[FMT=<FMT>,[LINECDE=<LINECDE>,[GOS=<GOS>,[IGDS1=<IGDS1>,
[PYLDSCRM=<PYLDSCRM>,[ATMMON=<ATMMON>,[EXT=<EXT>,[PDOM=<PDOM>,
[NDS0RESVD=<NDS0RESVD>,[TMGMODE=<TMGMODE>,[AP=<AP>,[DESC=<DESC>]]:
[<PST>,[<SST>]
";

```

Output Parameters

Ds1Aid	T1 Port Access Identifier. The address of the T1 port retrieved. <i>Ds1Aid</i> is the AID TwelvePortLuAid .
TYPE	TYPE of T1. This indicates whether the port is to be configured as a DS1 or a T1. <i>TYPE</i> is of type T1Type . <i>TYPE</i> is optional.
T1MAP	MAPping of the payload signal. When payload signal is a form that may be altered at the T1 port, this parameter specifies the mapping. Otherwise, its value should be NA. <i>T1MAP</i> is of type T1Map . <i>T1MAP</i> is optional.
EQLZ	Equalization. Indicates equalization setting (aka Line Build Out). It applies only when TYPE=DS1. <i>EQLZ</i> is of type Equalization . <i>EQLZ</i> is optional.
ATTEN	ATTENuation. Indicates the attenuation for T1 lines. It applies only when TYPE=T1. <i>ATTEN</i> is of type Attenuation . <i>ATTEN</i> is optional.
PWR	Line PoWeRing. This parameter indicates whether the line is to supply power. <i>PWR</i> is of type T1Pwr . <i>PWR</i> is optional.
FMT	DS1 Format. This parameter indicates DS1 signal format. <i>FMT</i> is of type FormatSignal . <i>FMT</i> is optional.
LINECDE	Line Code. This is the provisioned DS1 line coding. <i>LINECDE</i> is of type LineCode . <i>LINECDE</i> is optional.
GOS	Grade of Service Access Identifier. This is the T1 Grade of Service which is to be applied to the DS1. <i>GOS</i> is the AID GosAid . <i>GOS</i> is optional.
IGDS1	Interface Group DS1. This parameter indicates which the DS1 Line Termination within a GR-303 interface group this T1 is associated with. <i>IGDS1</i> is the AID IgDs1Aid . <i>IGDS1</i> is optional.
PYLDSCRM	Payload Scrambling. This parameter is set to Y to enable the scrambling of ATM cells. It is only applicable when T1MAP is UNI or NNI. A missing PYLDSCRM response parameter should be interpreted as "PYLDSCRM=Y". <i>PYLDSCRM</i> is of type BoolYN . <i>PYLDSCRM</i> is optional.
ATMMON	ATM Diagnostic Monitoring. This parameter is set to Y to enable ATM diagnostic monitoring on the STS path. If enabled, an ATM OAM loopback ping is injected on VP0-VC3 to verify point-to-point connectivity with the next line unit. It applies only to ATMNNI and ATMuNI interfaces. <i>ATMMON</i> is of type BoolYN . <i>ATMMON</i> is optional.

EXT	External Interface. This indicates if the T1 is an internal or external path in the network. The value should be set to "Y" when the port is an external interface. It should be set to "N" when the port is connected to other shelves within a network of C7s. This parameter is valid only if T1MAP is NNI. Note that this parameter must be changed independently of others, ie. a separate ED-T1 command is required. <i>EXT</i> is of type BoolYN . <i>EXT</i> is optional.
PDOM	Protection DOMain. This is an integer that is used to associate a transport facility into a protection domain that is used for A to Z connection provisioning. The PDOM for each domain must be a unique non-zero integer. The value of 0 is reserved to indicate that the facility is not to be used for A to Z connections. <i>PDOM</i> is of type Pdom . <i>PDOM</i> is optional.
NDS0RESVD	Number of Reserved DS0s. This parameter indicates the number of sequential DS0s that are to be reserved in a T1 facility that has a non-DS0 mapping for the remainder of its payload. The DS0s reserved are sequential decreasing from time slot 24. This parameter is only applicable when T1MAP is NNI or UNI. <i>NDS0RESVD</i> is a Integer. <i>NDS0RESVD</i> is optional.
TMGMODE	Timing Mode. This parameter selects the timing source for the T1 port transmit signal. TMGMODE defaults to LOOP for ATM interfaces (i.e. T1MAP of UNI or NNI). For non-ATM interfaces, TMGMODE will default to LOOP when FMT=UF, else TMGMODE will default to SOURCE. <i>TMGMODE</i> is of type T1TimingMode . <i>TMGMODE</i> is optional.
AP	Associated IMA-12 AP (ATM Resource Port). (C7 R6.0) <i>AP</i> is the AID AtmRscPortAid . <i>AP</i> is optional.
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String. <i>DESC</i> is optional.
PST	Primary Service State. This parameter specifies the overall service condition. <i>PST</i> is of type PrimaryState . <i>PST</i> is optional.
SST	Secondary Service State. This parameter provides additional state information that is relevant. <i>SST</i> is of type SecondaryState and is listable. <i>SST</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
  "N3-4-3-
2::TYPE=T1,T1MAP=NA,EQLZ=3,ATTEN=0,PWR=SINK,FMT=ESF,LINECDE=AMI,
  GOS=3,IGDS1=N3-3-IG3-
2,PYLDSCRM=N,ATMMON=Y,EXT=Y,PDOM=1,NDS0RESVD=0,
  TMGMODE=SOURCE,AP=N3-4-2-AP1,DESC=\ "DESCRIPTION\" :OOS-
AU,UEQ"
;

```

Errors

This message generates all of the [Default Errors](#).

RTRV-T1TG

Name

RTRV-T1TG: Retrieve T1 Transport Group

Description

Category: TDM Services **Security:** Memory Admin - read

Command to retrieve data for an internal T1 Transport interface Group.

Related Messages:

[ALW-Swdx-GR303](#)

[DLT-CRS-T0](#)

[DLT-GR8](#)

[DLT-T1TG](#)

[ED-GR8](#)

[ENT-GR303](#)

[ENT-IG-DS1](#)

[INH-Swdx-GR303](#)

[REPT ALM GR303](#)

[REPT EVT GR303](#)

[REPT SW GR303](#)

[RTRV-ALM-GR303](#)

[RTRV-COND-GR303](#)

[RTRV-CRS-T0](#)

[RTRV-DLSTAT-T1TG](#)

[RTRV-GR8](#)

[SW-DX-GR303](#)

[ALW-Swdx-T1TG](#)

[DLT-GR303](#)

[DLT-IG-DS1](#)

[ED-GR303](#)

[ENT-CRS-T0](#)

[ENT-GR8](#)

[ENT-T1TG](#)

[INH-Swdx-T1TG](#)

[REPT ALM T1TG](#)

[REPT EVT T1TG](#)

[REPT SW T1TG](#)

[RTRV-ALM-T1TG](#)

[RTRV-COND-T1TG](#)

[RTRV-DLSTAT-GR303](#)

[RTRV-GR303](#)

[RTRV-IG-DS1](#)

[SW-DX-T1TG](#)

Input Format

```
RTRV-T1TG:[TID]:<IgAid>:[CTAG];
```

Input Parameters

IgAid Interface Group AID. This parameter specifies the interface group for which the data is to be retrieved. It may represent either the subscriber-facing (IDT) or network-facing (RT) interface group. *IgAid* is the AID [IgRngAid](#). *IgAid* must not be null.

Input Example

```
RTRV-T1TG::N1-1-IG2:43;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD
"<IdtIgAid>,<RdtIgAid>"
;
```

Output Parameters

IdtIgAid IdtIgAid is an IDT T1 transport interface group. T1 transport interface groups form IDT/RDT pairs. The IDT is the T1 connection endpoint closer to the network side of the interface and is therefore the subscriber-facing interface group. *IdtIgAid* is the AID [IgAid](#).

RdtIgAid RdtIgAid is an RDT T1 transport interface group. T1 transport interface groups groups form IDT/RDT pairs. The RDT is the T1 connection endpoint closer to the subscriber side of the interface and is therefore the network-facing interface group. *RdtIgAid* is the AID [IgAid](#).

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-1-IG2,N2-1-IG3"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-T3

Name

RTRV-T3: Retrieve Digital Signal 3

Description

Category: DS3 Facility **Security:** Memory Admin - read

Retrieves parameters associated with a DS3 entity.

Defined in GR-199.

Related Messages:

[DLT-GOS-T3](#)

[DLT-T3](#)

ED-GOS-T3	ED-T3
ENT-GOS-T3	ENT-T3
INIT-REG-T3	OPR-LPBK-T3
REPT ALM T3	REPT EVT T3
REPT RMV T3	REPT RST T3
RLS-LPBK-T3	RMV-T3
RST-T3	RTRV-ALM-T3
RTRV-COND-T3	RTRV-GOS-T3
RTRV-PM-T3	

Input Format

```
RTRV-T3:[TID]:<Ds3Aid>:[CTAG];
```

Input Parameters

Ds3Aid T3 Port Access Identifier. The address of the T3 port being retrieved. *Ds3Aid* is the AID [T3NtwkRngAid](#) and is listable and rangeable. *Ds3Aid* must not be null.

Input Example

```
RTRV-T3:SYS4:N3-4-1-3:TAG1;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD

"<Ds3Aid>::[[INTF=<INTF>, ][AIS=<AIS>, ][AIST=<AIST>, ][IDLE=<IDLE>, ]
[FMT=<FMT>, ][LBO=<LBO>, ][GOS=<GOS>, ][EXT=<EXT>, ][ATM=<ATM>, ]
[PYLDSCRM=<PYLDSCRM>, ][ATMMON=<ATMMON>, ][PDOM=<PDOM>, ]
[TMGMODE=<TMGMODE>, ][DESC=<DESC> ]:[<PST> , [<SST> ]"
;
```

Output Parameters

Ds3Aid	T3 Port Access Identifier. The address of the T3 port retrieved. <i>Ds3Aid</i> is the AID T3Aid .
INTF	Interface Type. The type of interface being provided by the DS3. <i>INTF</i> is of type T3Interface . <i>INTF</i> is optional.
AIS	Alarm Indication Signal. Indicates whether AIS is transmitted from the DS3 being provisioned. <i>AIS</i> is of type BoolYN . <i>AIS</i> is optional.
AIST	AIS Type. This parameter indicates the type of the AIS signal to be generated/transmitted, and the AIS signal mode expected on input should a failure condition occur. <i>AIST</i> is of type AisType . <i>AIST</i> is optional.
IDLE	Idle signal. This parameter indicates the transmission or non-transmission of the IDLE signal. For Ds3S(CCHAN) card IDLE can be transmitted only in the INGRESS direction

and not the EGRESS direction. For DS3 packet card IDLE can be transmitted only in the EGRESS direction. *IDLE* is of type [Idle](#). *IDLE* is optional.

FMT	DS3 Format. This parameter indicates DS3 signal format. <i>FMT</i> is of type FormatT3 . <i>FMT</i> is optional.
LBO	Line Build Out. This parameter indicates the line build out setting. <i>LBO</i> is of type LineBuildOut . <i>LBO</i> is optional.
GOS	Grade of Service Access Identifier. This is the T3 Grade of Service which is to be applied to the DS3. <i>GOS</i> is the AID GosAid . <i>GOS</i> is optional.
EXT	External Interface. This indicates if the T3 is an internal or external path in the network. The value should be set to "Y" when the port is an external interface. It should be set to "N" when the port is connected to other shelves within a network of C7s. For INTF=CCHAN, EXT must be Y. Note that this parameter must be changed independently of others, ie. a separate ED-T3 command is required. <i>EXT</i> is of type BoolYN . <i>EXT</i> is optional.
ATM	ATM Mapping. This parameter indicates how the ATM payload is mapped into the DS3 Frame. If the INTF parameter is set to CCHAN this parameter is invalid. <i>ATM</i> is of type ATMPayload . <i>ATM</i> is optional.
PYLDSCRM	Payload Scrambling. This parameter is set to Y to enable the scrambling of ATM cells. If the INTF parameter is set to CCHAN this parameter is invalid. A missing PYLDSCRM response parameter should be interpreted as "PYLDSCRM=Y". <i>PYLDSCRM</i> is of type BoolYN . <i>PYLDSCRM</i> is optional.
ATMMON	ATM Diagnostic Monitoring. This parameter is set to Y to enable ATM diagnostic monitoring on the STS path. If enabled, an ATM OAM loopback ping is injected on VP0-VC3 to verify point-to-point connectivity with the next line unit. It applies only to ATMNNI and ATMUNI interfaces. <i>ATMMON</i> is of type BoolYN . <i>ATMMON</i> is optional.
PDOM	Protection domain. This is an integer that is used to associate FFPs into a coordinated protection domain. The PDOM for each domain must be a unique integer. If the INTF parameter is set to CCHAN this parameter is invalid. <i>PDOM</i> is of type Pdom . <i>PDOM</i> is optional.
TMGMODE	<i>TMGMODE</i> is of type DS3TimingMode . <i>TMGMODE</i> is optional.
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String. <i>DESC</i> is optional.
PST	Primary Service State. This parameter specifies the overall service condition. <i>PST</i> is of type PrimaryState . <i>PST</i> is optional.
SST	Secondary Service State. This parameter provides additional state information that is relevant. <i>SST</i> is of type SecondaryState and is listable. <i>SST</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-4-1-
3::INTF=CCHAN,AIS=Y,AIST=NAS, IDLE=OFF ,FMT=M23 ,LBO=3 ,GOS=3 ,EXT=Y ,
ATM=PLCP ,PYLDSCRM=Y ,ATMMON=Y ,PDOM=0 ,TMGMODE=SOURCE ,DESC=\ "DESCRIPTION\ " :
OOS-AU ,UEQ "
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-TGRP

Name

RTRV-TGRP: Retrieve Test Group

Description

Category: Loop Testing **Security:** System Administration

Retrieves parameters associated with a Test Group.

Defined by Calix and based on RTRV-rr in GR-199.

Related Messages:

[CHG-SPLIT](#)

[CONN-LPACC-MET](#)

[CONN-TACC-MET](#)

[DISC-TACC](#)

[ED-FPACC](#)

[ENT-TGRP](#)

[RTRV-FPACC](#)

[TST-ONT-MET](#)

[CONN-FPACC-MET](#)

[CONN-MON](#)

[DISC-FPACC-MET](#)

[DLT-TGRP](#)

[ED-TGRP](#)

[REPT-STAT](#)

[TST-ITACC-MET](#)

Input Format

```
RTRV-TGRP:[TID]:<MsAid>:[CTAG];
```

Input Parameters

MsAid Maintenance Slot Access Identifier. The address of the maintenance slot which controls the test bus. *MsAid* is the AID [MsAid](#) and is listable. *MsAid* must not be null.

Input Example

```
RTRV-TGRP:SYS3:N6-1-MS:555;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD
"<MsAid>::[TBUS=<TBUS>]"
;
```

Output Parameters

MsAid Maintenance Slot Access Identifier. The address of the maintenance slot which controls the test bus. *MsAid* is the AID [MsAid](#).

TBUS Test Bus. This parameter identifies the shelves which are connected to the MsAid via the Test Bus. *TBUS* is the AID [ShelfAid](#) and is listable. *TBUS* is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N6-1-MS::TBUS=N6-2&N6-3"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-TMG

Name

RTRV-TMG: Retrieve Timing

Description

Category: Timing **Security:** Memory Admin - read

Retrieves parameters associated with a timing.

Defined by Calix and based on RTRV-rr in GR-199.

Related Messages:

[ED-TMG](#)
[REPT ALM TMG](#)
[RLS-SYNCNSW](#)

[OPR-SYNCNSW](#)
[REPT EVT TMG](#)
[RTRV-ALM-TMG](#)

RTRV-COND-TMG

Input Format

```
RTRV-TMG:[TID]:<ShelfAid>:[CTAG];
```

Input Parameters

ShelfAid Shelf Access Identifier. The address of the shelf where the timing is to be retrieved. *ShelfAid* is the AID [ShelfAid](#) and is listable. *ShelfAid* must not be null.

Input Example

```
RTRV-TMG:SYS3:N4-5:3234;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<ShelfAid>::[[SIMPLEX=<SIMPLEX>,][TMREF=<TMREF>,][EXT=<EXT>,][PRI=<PRI>,
[SEC=<SEC>],[RVRTV=<RVRTV>],[DS1FMT=<DS1FMT>],[STATE=<STATE>,
[DS1STATE=<DS1STATE>]]"
;
```

Output Parameters

- ShelfAid** Shelf Access Identifier. The address of the shelf where the timing is retrieved. *ShelfAid* is the AID [ShelfAid](#).
- SIMPLEX** Simplex timing. Set this to TRUE if no redundant Composite Clock or External DS1 timing source is unavailable. This will suppress the alarm that would otherwise be generated due to a secondary timing source failure. *SIMPLEX* is of type [BoolYN](#). *SIMPLEX* is optional.
- TMREF** Timing Reference. This parameter indicates the configuration of the timing system on the C7 shelf. *TMREF* is of type [TimingReference](#). *TMREF* is optional.
- EXT** External Timing. When the TMREF is EXTERNAL, this parameter indicates what type of external timing reference is to be used. When the TMREF is LINE, this parameter indicates what timing outputs are being generated. *EXT* is of type [ExtTmg](#). *EXT* is optional.
- PRI** Primary Timing Source. When TMREF is LINE, this parameter indicates the AID of the working line of primary timing interface. The working line of this interface supplies the source for the derived DS1 generated by the CSA RAP. The protect line of this interface supplies the source for the derived DS1 generated by the CSB RAP. When TMREF is EXTERNAL, it indicates the source of the derived DS1 generated by the CSA RAP -- NONE indicates that no derived DS1 is to be generated. *PRI* is the AID [PortNoneAid](#). *PRI* is optional.
- SEC** Secondary Timing Source. When TMREF is LINE, this parameter indicates the AID of the working line of the secondary timing interface. When both working and protect of the

primary timing interface have failed, this interface is used as the system timing source. Also, when the primary timing interface has failed, the working line of the secondary interface supplies the source for the derived DS1 generated by the CSA RAP. The protect line of the secondary interface supplies the source for the derived DS1 generated by the CSB RAP. When TMREF is EXTERNAL, it indicates the source of the derived DS1 generated by the CSB RAP -- NONE indicates that no derived DS1 is to be generated. SEC is the AID [PortNoneAid](#). SEC is optional.

RVRTV	Revertive. This parameter is Y if timing should revert to the primary timing source if primary timing source is restored after a failure. <i>RVRTV</i> is of type BoolYN . <i>RVRTV</i> is optional.
DS1FMT	DS1 Format. This parameter indicates the format for the transmitted and/or received timing DS1 signals. If both are used both formats must be the same. <i>DS1FMT</i> is of type TmgDS1Fmt . <i>DS1FMT</i> is optional.
STATE	State. This parameter indicates which timing source is currently active. <i>STATE</i> is of type TimingState . <i>STATE</i> is optional.
DS1STATE	DS1 STATE. <i>DS1STATE</i> is of type DS1State . <i>DS1STATE</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "N4-5::SIMPLEX=N, TMREF=LINE, EXT=CC, PRI=N4-2-3-4, SEC=N4-4-3-
2, RVRTV=Y,
    DS1FMT=ESFNS, STATE=PRIMARY, DS1STATE=SYSTEM"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-TMPLT-ADSL

Name

RTRV-TMPLT-ADSL: Retrieve Template Asymmetric Digital Subscriber Line

Description

Category: ADSL Facility **Security:** Memory Admin - read

This command will retrieve the parameters associated with the ADSL template.

Defined by Calix and modeled after RTRV-rr in GR-199.

Related Messages:

[DLT-ADSL](#)
[DLT-TMPLT-ADSL](#)
[ED-GOS-ADSL](#)
[ENT-GOS-ADSL](#)
[INIT-ADSL](#)
[INIT-REG-ADSL](#)
[REPT EVT ADSL](#)
[REPT RST ADSL](#)
[RST-ADSL](#)
[RTRV-ALM-ADSL](#)
[RTRV-CSTAT-ADSL](#)
[RTRV-PM-ADSL](#)

[DLT-GOS-ADSL](#)
[ED-ADSL](#)
[ENT-ADSL](#)
[ENT-TMPLT-ADSL](#)
[INIT-PWR-ADSL](#)
[REPT ALM ADSL](#)
[REPT RMV ADSL](#)
[RMV-ADSL](#)
[RTRV-ADSL](#)
[RTRV-COND-ADSL](#)
[RTRV-GOS-ADSL](#)

Input Format

```
RTRV-TMPLT-ADSL:[TID]:<DslProfAid>:[CTAG];
```

Input Parameters

DslProfAid *DslProfAid* is the AID [DslProfAllAid](#) and is listable and rangeable. *DslProfAid* must not be null.

Input Example

```
RTRV-TMPLT-ADSL:SYS1:4:333;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD
" [<DslProfAid>]:[<SRVTYPE> , [<CHNL0> , [<CHNL1> :[[ XDSR0=<XDSR0> , ]
[MDSR0=<MDSR0> , ] [XUSR0=<XUSR0> , ] [MUSR0=<MUSR0> , ] [XDSR1=<XDSR1> , ]
[MDSR1=<MDSR1> , ] [XUSR1=<XUSR1> , ] [MUSR1=<MUSR1> , ] [DSEXR=<DSEXR> , ]
[USEXR=<USEXR> , ] [TMDS=<TMDS> , ] [XMDS=<XMDS> , ] [MMDS=<MMDS> , ] [TMUS=<TMUS> , ]
[XMUS=<XMUS> , ] [MMUS=<MMUS> , ] [DSLAT=<DSLAT> , ] [USLAT=<USLAT> , ] [TC=<TC> , ]
[RAMODEDS=<RAMODEDS> , ] [RAMODEUS=<RAMODEUS> , ] [RAUMDS=<RAUMDS> , ]
[RADMDS=<RADMDS> , ] [RAUTDS=<RAUTDS> , ] [RADTDS=<RADTDS> , ] [RAUMUS=<RAUMUS> , ]
[RADMUS=<RADMUS> , ] [RAUTUS=<RAUTUS> , ] [RADTUS=<RADTUS> , ] [PMMODE=<PMMODE> , ]
[L0TIME=<L0TIME> , ] [L2TIME=<L2TIME> , ] [L2ATPR=<L2ATPR> , ] [L2MINR=<L2MINR> , ]
[ L2EXITR=<L2EXITR> , ] [L2ENTRYR=<L2ENTRYR> , ] [L2ENTRYT=<L2ENTRYT> , ]
[DSST=<DSST> , ] [DSET=<DSET> , ] [USST=<USST> , ] [USET=<USET> , ] [CMSID=<CMSID> , ]
[DESC=<DESC> ] "
;
```

Output Parameters

DslProfAid	ADSL Profile Access Identifier. The address of the specific entry in ADSL Profile table. <i>DslProfAid</i> is the AID DslProfAid . <i>DslProfAid</i> is optional.
SRVTYPE	Service Type. This parameter specifies the ADSL operating modes that dictate the ADSL handshaking protocol, channel capacity, and other physical line characteristics based on ADSL specifications. <i>SRVTYPE</i> is of type AdslType . <i>SRVTYPE</i> is optional.
CHNL0	Channel 0 Selection/Allocation. Settings for channel path latency. Choosing a latency path of Fast means minimum (4 ms) delay is expected while choosing a latency path of Interleaved means more delay. <i>CHNL0</i> is of type ChnlSelect0 . <i>CHNL0</i> is optional.
CHNL1	Channel 1 Selection/Allocation. Settings for channel path latency. Choosing a latency path of Fast means minimum (4 ms) delay is expected while choosing a latency path of Interleaved means more delay. <i>CHNL1</i> is of type ChnlSelect1 . <i>CHNL1</i> is optional.
XDSR0	Maximum Downstream Rate - Channel 0. Specifies the maximum downstream rate for channel 0. This parameter is specified in kilobits per second (Kbps) based on a multiple of 32. Specifically, the system calculates this downstream rate by multiplying the value of this parameter (a number between 1 and 338) by 32 Kbps. <i>XDSR0</i> is of type DwnStreamRate . <i>XDSR0</i> is optional.
MDSR0	Minimum Downstream Rate - Channel 0. Specifies the minimum downstream rate for channel 0. This parameter is specified in kilobits per second (Kbps) based on a multiple of 32. Specifically, the system calculates this downstream rate by multiplying the value of this parameter (a number between 1 and 338) by 32 Kbps. <i>MDSR0</i> is of type DwnStreamRate . <i>MDSR0</i> is optional.
XUSR0	Maximum Upstream Rate - Channel 0. Specifies the maximum upstream rate for channel 0. This parameter is specified in kilobits per second (Kbps) based on a multiple of 32. Specifically, the system calculates this downstream rate by multiplying the value of this parameter (a number between 1 and 64) by 32 Kbps. <i>XUSR0</i> is of type UpStreamRate . <i>XUSR0</i> is optional.
MUSR0	Minimum Upstream Rate - Channel 0. Specifies the minimum upstream rate for channel 0. This parameter is specified in kilobits per second (Kbps) based on a multiple of 32. Specifically, the system calculates this downstream rate by multiplying the value of this parameter (number between 1 and 64) by 32 Kbps. <i>MUSR0</i> is of type UpStreamRate . <i>MUSR0</i> is optional.
XDSR1	Maximum Downstream Rate - Channel 1. Specifies the maximum downstream rate for channel 1. This parameter is specified in kilobits per second (Kbps) based on a multiple of 32. Specifically, the system calculates this downstream rate by multiplying the value of this parameter (a number between 1 and 338) by 32 Kbps. <i>XDSR1</i> is of type DwnStreamRate . <i>XDSR1</i> is optional.
MDSR1	Minimum Downstream Rate - Channel 1. Specifies the minimum downstream rate for channel 1. This parameter is specified in kilobits per second (Kbps) based on a multiple of 32. Specifically, the system calculates this downstream rate by multiplying the value of this parameter (a number between 1 and 338) by 32 Kbps. <i>MDSR1</i> is of type DwnStreamRate . <i>MDSR1</i> is optional.
XUSR1	Maximum Upstream Rate - Channel 1. Specifies the maximum upstream rate for channel 1. This parameter is specified in kilobits per second (Kbps) based on a multiple of 32. Specifically, the system calculates this downstream rate by multiplying the value of this parameter (a number between 1 and 64) by 32 Kbps. <i>XUSR1</i> is of type UpStreamRate . <i>XUSR1</i> is optional.
MUSR1	Minimum Upstream Rate - Channel 1. Specifies the minimum upstream rate for channel 1. This parameter is specified in kilobits per second (Kbps) based on a multiple of 32.

Specifically, the system calculates this downstream rate by multiplying the value of this parameter (a number between 1 and 64) by 32 Kbps. *MUSRI* is of type [UpStreamRate](#). *MUSRI* is optional.

DSEXRI	Downstream Excess Rate. Specifies the percentage of excess bit rate (a number between 1 and 100) that the system applies to the downstream channel 0. The system applies the remaining percentage to channel 1. The excess bit rate is the bandwidth that remains after the system subtracts the total minimum rates of both channels from the total line bandwidth. <i>DSEXRI</i> is of type ExcessRate . <i>DSEXRI</i> is optional.
USEXR	Upstream Excess Rate. Specifies the percentage of excess bit rate (a number between 1 and 100) that the system applies to the upstream channel 0. The system applies the remaining percentage to channel 1. The excess bit rate is the bandwidth that remains after the system subtracts the total minimum rates of both channels from the total line bandwidth. <i>USEXR</i> is of type ExcessRate . <i>USEXR</i> is optional.
TMDS	Target Margin Downstream Ratio. Specifies (in dB) the target signal-to-noise ratio in the downstream direction (a value between 0 and 15). <i>TMDS</i> is of type SnrTargetMargins . <i>TMDS</i> is optional.
XMDS	Maximum Margin Downstream Ratio. Specifies (in dB) the maximum signal-to-noise ratio for the downstream direction (a value between 0 and 15). <i>XMDS</i> is of type SnrMaxMargins . <i>XMDS</i> is optional.
MMDS	Minimum Margin Downstream Ratio. Specifies (in dB) the minimum signal-to-noise ratio for the downstream direction (a value between 0 and 15). <i>MMDS</i> is of type SnrMinMargins . <i>MMDS</i> is optional.
TMUS	Target Margin Upstream Ratio. Specifies (in dB) the target signal-to-noise ratio in the upstream direction (a value between 0 and 15). <i>TMUS</i> is of type SnrTargetMargins . <i>TMUS</i> is optional.
XMUS	Maximum Margin Upstream Ratio. Specifies (in dB) the maximum signal-to-noise ratio in the upstream direction (a value between 0 and 15). <i>XMUS</i> is of type SnrMaxMargins . <i>XMUS</i> is optional.
MMUS	Minimum Margin Upstream Ratio. Specifies (in dB) the minimum signal-to-noise ratio in the upstream direction (a value between 0 and 15). <i>MMUS</i> is of type SnrMinMargins . <i>MMUS</i> is optional.
DSLAT	Downstream Latency. Specifies in milliseconds (ms) the delay of the data transmission in the downstream link on an interleaved channel (if the value in either the CHNL0 or CHNL1 parameters is INTLV). This is a number between 5 ms and 64 ms. The AUTO setting allows the ADSL card to pick the most appropriate interleave latency. <i>DSLAT</i> is of type Latency . <i>DSLAT</i> is optional.
USLAT	Upstream Latency. Specifies in milliseconds (ms) the delay of the data transmission in the upstream link on an interleaved channel (if the value in either the CHNL0 or CHNL1 parameters is INTLV). This is a number between 5 ms and 64 ms. The AUTO setting allows the ADSL card to pick the most appropriate interleave latency. <i>USLAT</i> is of type Latency . <i>USLAT</i> is optional.
TC	Trellis Coding. Enables trellis coding to improve the DSL system performance. Trellis coding is an encoding scheme for piggybacking bits onto the electrical signal on the twisted pair. <i>TC</i> is of type TrellisCoding . <i>TC</i> is optional.
RAMODEDS	Rate Adaptation MODE DownStream. <i>RAMODEDS</i> is of type RateAdaptationMode . <i>RAMODEDS</i> is optional.

RAMODEUS	Rate Adaptation MODE UpStream. <i>RAMODEUS</i> is of type RateAdaptationMode . <i>RAMODEUS</i> is optional.
RAUMDS	Rate Adaptation Upshift Margin DownStream (dB). <i>RAUMDS</i> is of type SnrMaxMargins . <i>RAUMDS</i> is optional.
RADMDS	Rate Adaptation Downshift Margin DownStream (dB). <i>RADMDS</i> is of type SnrMaxMargins . <i>RADMDS</i> is optional.
RAUTDS	Rate Adaptation Upshift Time Downstream (seconds). This applies when RAMODE is DYNAMIC. <i>RAUTDS</i> is of type RateAdaptationMarginSeconds . <i>RAUTDS</i> is optional.
RADTDS	Rate Adaptation Downshift Time Downstream (seconds). This applies when RAMODE is DYNAMIC. <i>RADTDS</i> is of type RateAdaptationMarginSeconds . <i>RADTDS</i> is optional.
RAUMUS	Rate Adaptation Upshift Margin UpStream (dB). This applies when RAMODE is DYNAMIC. <i>RAUMUS</i> is of type SnrMaxMargins . <i>RAUMUS</i> is optional.
RADMUS	Rate Adaptation Downshift Margin UpStream (dB). This applies when RAMODE is DYNAMIC. <i>RADMUS</i> is of type SnrMaxMargins . <i>RADMUS</i> is optional.
RAUTUS	Rate Adaptation Upshift Time UpStream (seconds). This applies when RAMODE is DYNAMIC. <i>RAUTUS</i> is of type RateAdaptationMarginSeconds . <i>RAUTUS</i> is optional.
RADTUS	Rate Adaptation Downshift Time UpStream (seconds). This applies when RAMODE is DYNAMIC. <i>RADTUS</i> is of type RateAdaptationMarginSeconds . <i>RADTUS</i> is optional.
PMMODE	Power Management MODE. <i>PMMODE</i> is of type AdslPowerMgmtStates . <i>PMMODE</i> is optional.
L0TIME	Minimum L0 Time interval between L2 exit and next L2 entry. (seconds) <i>L0TIME</i> is a Integer. <i>L0TIME</i> is optional.
L2TIME	Minimum L2 time interval between L2 entry and first L2 trim. (seconds) <i>L2TIME</i> is a Integer. <i>L2TIME</i> is optional.
L2ATPR	Maximum Aggregate Transmit Power Reduction per L2 trim. (dB) <i>L2ATPR</i> is of type SnrMaxMargins . <i>L2ATPR</i> is optional.
L2MINR	Minimum Data Rate in Low Power Mode (L2). This parameter specifies the minimum net data rate (in Kbps) during the low power state. If the actual user data rate is lower than L2MINR, raw cells will be injected to maintain the provisioned value. The value can range from 256 to 1024 Kbps. <i>L2MINR</i> is a Integer. <i>L2MINR</i> is optional.
L2EXITR	L2 Exit Rate Threshold. This parameter specifies the downstream datarate threshold (in Kbps), which triggers exit from low power state (L2). The value ranges between 1 and 1024 Kbps, and must be less than L2MINR. <i>L2EXITR</i> is a Integer. <i>L2EXITR</i> is optional.
L2ENTRYR	L2 Entry Rate Threshold. This parameter specifies the downstream data rate threshold (in Kbps), which triggers autonomous entry into low power state (L2). The value can range from 1 to 1024, and must be less or equal to L2EXITR. <i>L2ENTRYR</i> is a Integer. <i>L2ENTRYR</i> is optional.
L2ENTRYT	L2 Entry Time Threshold. This parameter specifies minimum interval of time (in seconds) that the net data rate should stay below L2ENTRYR before autonomous entry into low power state (L2). The value can range from 900 to 65535 seconds. <i>L2ENTRYT</i> is a Integer. <i>L2ENTRYT</i> is optional.
DSST	DownStream Start Tone. (ADSL2, ADSL2+ only) <i>DSST</i> is a Integer. <i>DSST</i> is optional.
DSET	DownStream End Tone. ADSL2, ADSL2+ only. <i>DSET</i> is a Integer. <i>DSET</i> is optional.

USST	UpStream Start Tone. (ADSL2, ADSL2+ only) <i>USST</i> is a Integer. <i>USST</i> is optional.
USET	UpStream End Tone (ADSL2, ADSL2+ only) <i>USET</i> is a Integer. <i>USET</i> is optional.
CMSID	CMS ID. If defined as a CMS global template, this attribute shows that template ID. <i>CMSID</i> is a Integer. <i>CMSID</i> is optional.
DESC	A string description of this object, up to 11 characters in length. <i>DESC</i> is a String. <i>DESC</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD

"4:ADSL2+,FAST,INTLV:XDSR0=255,MDSR0=200,XUSR0=233,MUSR0=200,XDSR1=128,
 MDSR1=100,XUSR1=64,MUSR1=10,DSEXTR=100,USEXR=100,TMDS=15,XMDS=-
 30,
 MMDS=-20,TMUS=15,XMUS=-30,MMUS=-32,DSLAT=24,USSLAT=24,TC=ENABLED,
 RAMODEDS=DYNAMIC,RAMODEUS=DYNAMIC,RAUMDS=31,RADMDS=0,RAUTDS=30,
 RADTDS=30,RAUMUS=31,RADMUS=0,RAUTUS=30,RADTUS=30,PMMODE=L2,L0TIME=5,
 L2TIME=5,L2ATPR=2,L2MINR=1024,L2EXITR=512,L2ENTRYR=1,L2ENTRYT=1800,
 DSST=32,DSET=511,USST=6,USET=30,CMSID=14,DESC="4"
 ;

```

Errors

This message generates all of the [Default Errors](#).

RTRV-TMPLT-SECU

Name

RTRV-TMPLT-SECU: Retrieve Template Security

Description

Category: Security **Security:** Security Administrator

This command retrieves a security template which is used to set default values for user IDs.

Related Messages:

[ALW-MSG-SECU](#)
[CANC-CID-SECU](#)
[DLT-TMPLT-SECU](#)
[ED-RADIUS](#)
[ED-TMPLT-SECU](#)

[ALW-USER-SECU](#)
[CANC-SES-SECU](#)
[DLT-USER-SECU](#)
[ED-SYS-SECU](#)
[ED-USER-SECU](#)

[ENT-TMPLT-SECU](#)
[INH-MSG-SECU](#)
[REPT ALM SECU](#)
[RTRV-ALM-SECU](#)
[RTRV-RADIUS](#)
[RTRV-SYS-SECU](#)

[ENT-USER-SECU](#)
[INH-USER-SECU](#)
[REPT EVT SECU](#)
[RTRV-COND-SECU](#)
[RTRV-STATUS](#)
[RTRV-USER-SECU](#)

Input Format

```
RTRV-TMPLT-SECU:[TID]:<SecuTmpltAid>:[CTAG];
```

Input Parameters

SecuTmpltAid This is the Access Identifier of the Security Template. *SecuTmpltAid* is the AID [SecuTmpltAllAid](#) and is listable and rangeable. *SecuTmpltAid* must not be null.

Input Example

```
RTRV-TMPLT-SECU:SYS1:3:555;
```

Output Format

```
    SID DATE TIME
M   CTAG COMPLD
  "<SecuTmpltAid>:: [ [ PAGE=<PAGE>, ] [ PCND=<PCND>, ] [ TMOUT=<TMOUT>, ]
[ UAPMA=<UAPMA>, ] [ UAPMT=<UAPMT>, ] [ UAPSE=<UAPSE>, ] [ UAPSY=<UAPSY>, ]
[ UAPTS=<UAPTS>, ] [ NODEAID=<NODEAID>, ] [ ENTADA=<ENTADA>, ] [ DESC=<DESC> ] ] "
;
```

Output Parameters

SecuTmpltAid This is the Access Identifier of the Security Template. *SecuTmpltAid* is the AID [SecuTmpltAid](#).

PAGE Password Aging Interval. The password aging interval is expressed in days. It is an integer less than or equal to 999, typically 45 to 60. At the end of the interval the user is notified that the existing password needs to be changed each time they log in. A value of zero indicates the user's password will never expire. *PAGE* is of type [UserInterval](#). *PAGE* is optional.

PCND Password ChaNge Days. This parameter specifies the number of days the user has between the time they are first notified that they must change their password and the time their USERID is disabled. *PCND* is of type [UserInterval](#). *PCND* is optional.

TMOUT TiMe OUT. This parameter specifies the number of minutes of inactivity that must pass before their session is automatically logged out. A value of zero indicates that the user's sessions are never to be logged out due to inactivity. *TMOUT* is of type [TimeOut](#). *TMOUT* is optional.

UAPMA	User Access Privilege for Memory Administration. This parameter specifies the abilities of a user for executing memory administration commands. <i>UAPMA</i> is of type AcsPrv . <i>UAPMA</i> is optional.
UAPMT	User Access Privilege for MainTenance. This parameter specifies the abilities of a user for executing maintenance commands. <i>UAPMT</i> is of type AcsPrv . <i>UAPMT</i> is optional.
UAPSE	User Access Privilege for SEcurity. This parameter specifies the abilities of a user for executing security commands. <i>UAPSE</i> is of type AcsPrv . <i>UAPSE</i> is optional.
UAPSY	User Access Privilege for SYstem. This parameter specifies the abilities of a user for executing system commands. <i>UAPSY</i> is of type AcsPrv . <i>UAPSY</i> is optional.
UAPTS	User Access Privilege for TeSting. This parameter specifies the abilities of a user for executing testing commands. <i>UAPTS</i> is of type AcsPrv . <i>UAPTS</i> is optional.
NODEAID	Use NODE Access IDentifier. This parameter is set to Y (Yes) if AIDs in responses to this user are to contain node identifiers. This is the normal setting. N (No) needs to be specified for Operations Systems (such as NMA) that cannot tolerate node identifiers. For these systems, AIDs for the same node as was identified in the TID of the command will have the Nx- deleted from the AID in responses and autonomous reports. For input, the node identifier may be omitted if the node is the same as is identified in the TID. <i>NODEAID</i> is of type BoolYN . <i>NODEAID</i> is optional.
ENTADA	This boolean flag determines whether or not the user may perform an ENTer on an object that is in ADA state. <i>ENTADA</i> is of type BoolYN . <i>ENTADA</i> is optional.
DESC	A string description of this object, up to 11 characters in length. <i>DESC</i> is a String. <i>DESC</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD

"SRVORD: :PAGE=999 ,PCND=3 ,TMOUT=0 ,UAPMA=FULL ,UAPMT=FULL ,UAPSE=MIN ,UAPSY=MIN ,
UAPTS=FULL ,NODEAID=N ,ENTADA=Y ,DESC=DESC"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-TMPLT-VLANVBPORT

Name

RTRV-TMPLT-VLANVBPORT: Retrieve Template VLANVBPORT

Description

Category: IP **Security:** Memory Admin - read

Retrieve Template for VLAN VBPORTs.

Input Format

```
RTRV-TMPLT-VLANVBPORT:[TID]:<VlanVbPortTmpltAid>:[CTAG];
```

Input Parameters

VlanVbPortTmpltAid VLAN VBPort Template Access Identifier. *VlanVbPortTmpltAid* is the AID [VlanPortTmpltRngAid](#) and is listable and rangeable. *VlanVbPortTmpltAid* must not be null.

Input Example

```
RTRV-TMPLT-VLANVBPORT:1234:4:12345;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD

"<VlanVbPortTmpltAid>::[[ARP=<ARP>,][DHCP=<DHCP>,[OPT82ACT=<OPT82ACT>,
[IGMP=<IGMP>,[PPPOEAC=<PPPOEAC>,[PPPOESUB=<PPPOESUB>,[LSVID=<LSVID>,
[PRIOS=<PRIOS>,[TAGGING=<TAGGING>,[ENCAP=<ENCAP>,[DOS=<DOS>,
[STP=<STP>,[STPCOST=<STPCOST>,[STPPRIO=<STPPRIO>,[DIRN=<DIRN>,
[STAGTYPE=<STAGTYPE>,[LEARNING=<LEARNING>,[PORTTYPE=<PORTTYPE>,
[DESC=<DESC>]]"
;
```

Output Parameters

VlanVbPortTmpltAid VLAN VBPort Template Id. *VlanVbPortTmpltAid* is the AID [VlanPortTmpltAid](#).

ARP (VLAN-VBPORT) Enable/Disable ARP on a VLAN VBPORT. *ARP* is of type [BoolYN](#). *ARP* is optional.

DHCP (VLAN-VBPORT) Enable/Disable DHCP on a VLAN VBPORT. *DHCP* is of type [BoolYN](#). *DHCP* is optional.

OPT82ACT *Not supported in release 6.0.* The action to take if a DHCP packet is received on a Client facing interface with Option82 sub-option 1 /2 content. *OPT82ACT* is of type [Option82Action](#). *OPT82ACT* is optional.

IGMP (VLAN-VBPORT) IGMP Type. *IGMP* is of type [IgmpType](#). *IGMP* is optional.

PPPOEAC (VLAN-VBPORT) Enable/Disable PPPoE Access Concentrator on a VLAN VBPORT. *PPPOEAC* is of type [BoolYN](#). *PPPOEAC* is optional.

PPPOESUB (VLAN-VBPORT) Enable/Disable PPPoE Subscriber on a VLAN VBPORT

PPPOESUB is of type [BoolYN](#). *PPPOESUB* is optional.

LSVID	<i>Not supported in release 6.0.</i> <i>LSVID</i> is of type VlanTag . <i>LSVID</i> is optional.
PRI0	(VLAN-VBPORT) Priority of the VLAN VBPORT. <i>PRI0</i> values are in the range 0-7. <i>PRI0</i> is a Integer. <i>PRI0</i> is optional.
TAGGING	(VLAN-VBPORT) Tagging Properties of the VLAN port <i>TAGGING</i> is of type Tagging . <i>TAGGING</i> is optional.
ENCAP	(VBPORT) Encapsulation Type. <i>ENCAP</i> is of type EncapType . <i>ENCAP</i> is optional.
DOS	(VBPORT) Denial of Service enabled. <i>DOS</i> is of type BoolYN . <i>DOS</i> is optional.
STP	(VBPORT) Spanning Tree Protocol Enabled. <i>STP</i> is of type BoolYN . <i>STP</i> is optional.
STPCOST	(VBPORT) Cost of the port participating in STP. This is used to determine the root port. <i>STPCOST</i> is a Integer. <i>STPCOST</i> is optional.
STPPRIO	(VBPORT) STP Priority. STP Priority values are in the range 0-240 and in steps of 16. <i>STPPRIO</i> is a Integer. <i>STPPRIO</i> is optional.
DIRN	(VBPORT) Direction. <i>DIRN</i> is of type VbPortDirection . <i>DIRN</i> is optional.
STAGTYPE	<i>Not supported in release 6.0.</i> <i>STAGTYPE</i> is of type StagEthType . <i>STAGTYPE</i> is optional.
LEARNING	<i>Not supported in release 6.0.</i> <i>LEARNING</i> is of type BoolYN . <i>LEARNING</i> is optional.
PORTTYPE	<i>Not supported in release 6.0.</i> <i>PORTTYPE</i> is of type VbPortType . <i>PORTTYPE</i> is optional.
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String. <i>DESC</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD

"4::ARP=Y,DHCP=Y,OPT82ACT=NONE,IGMP=NONE,PPPOEAC=N,PPPOESUB=N,LSVID=5,
PRI0=1,TAGGING=DFLT,ENCAP=ETHERNETV2,DOS=Y,STP=Y,STPCOST=2,STPPRIO=1,
DIRN=BOTH,STAGTYPE=CTAG_8100,LEARNING=N,PORTTYPE=USER,DESC=TMPLT"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-TRAFFIC

Name

RTRV-TRAFFIC: Retrieve TRAFFIC

Description

Category: TDM Services

Security: Memory Admin - read

This command retrieves call traffic statistics for an interface group (T1TG IDT, VCG or H248) or a remote Interface Group Concentration Shelf (IG-CSHELF). CSHELF is required parameter for GR303 IG and T1TG RDT.

Input Format

```
RTRV-TRAFFIC:[TID]:<IgAid>:[CTAG]::[<CSHELF>]:[RESET=<RESET>];
```

Input Parameters

IgAid Interface group Aid of the Interface Group for which traffic statistics are being requested. *IgAid* is the AID [IgAid](#) and is listable and rangeable. *IgAid* must not be null.

CSHELF Address of a concentration shelf from which to retrieve call statistics. If not provided, statistics for the IG are returned. (see ENT-IG-CSHELF) *CSHELF* is the AID [ShelfAid](#). A null value is equivalent to "ALL".

RESET This parameter indicates that the counters should be reset immediately after the data returned by the reply has been retrieved. *RESET* is of type [BoolYN](#). A null value defaults to "N".

Input Example

```
RTRV-TRAFFIC:SYS1:N1-1-IG1:234::N3-2:RESET=Y;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<IgAid>:[<CSHELF>]:[[PSTARTDAY=<PSTARTDAY>,][PSTARTTIME=<PSTARTTIME>,
[PTRAF=<PTRAF>],[PBUSY=<PBUSY>],[PORIG=<PORIG>],[PTERM=<PTERM>,
[PBORIG=<PBORIG>],[PBTTERM=<PBTTERM>],[TSTARTDAY=<TSTARTDAY>,
[TSTARTTIME=<TSTARTTIME>],[TTRAF=<TTRAF>],[TBUSY=<TBUSY>,
[TORIG=<TORIG>],[TTERM=<TTERM>],[TBORIG=<TBORIG>],[TBTERM=<TBTERM>,
[MAXACTCALLS=<MAXACTCALLS>],[CURREACTCALLS=<CURREACTCALLS>,
[PROVDS0=<PROVDS0>],[VGPMONCHANAVAIL=<VGPMONCHANAVAIL>]]"
;
```

Output Parameters

IgAid	This is the Interface Group AID. <i>IgAid</i> is the AID IgAid .
CSHELF	If specified in the request, this shows the address of a concentration shelf from which call statistics were retrieved. <i>CSHELF</i> is the AID ShelfAid . <i>CSHELF</i> is optional.
PSTARTDAY	Peak START DAY. The day of the start of the peak hour. <i>PSTARTDAY</i> is a Date. <i>PSTARTDAY</i> is optional.
PSTARTTIME	Peak START TIME. The time at the start of the peak hour. Traffic statistics are gathered in 1-hour segments from the time the counters were reset. If the segments are to correspond exactly to hours, the counters should be reset on the hour. <i>PSTARTTIME</i> is a Time. <i>PSTARTTIME</i> is optional.
PTRAF	Peak hour TRAFFic. The amount of traffic carried during the peak traffic hour. Traffic for each hour is measured in Centa-Call Seconds (CCS). One connection that lasts 100 seconds is 1 CCS of traffic. The measurement is made per circuit per second per hour. Thus a CCS value of 36 on a transport group indicates that all circuits were busy for the entire hour - 3600 seconds per hour per circuit. The peak traffic hour data is reset when the traffic counters are reset. <i>PTRAF</i> is a Integer. <i>PTRAF</i> is optional.
PBUSY	Peak hour all circuits BUSY. The number of seconds that all circuits were busy during the peak traffic hour. <i>PBUSY</i> is a Integer. <i>PBUSY</i> is optional.
PORIG	Peak hour ORIGINations. The number of originations from the subscriber end in the peak traffic hour. <i>PORIG</i> is a Integer. <i>PORIG</i> is optional.
PTERM	Peak hour TERMINations. The number of calls terminating on a local subscriber in the peak traffic hour. <i>PTERM</i> is a Integer. <i>PTERM</i> is optional.
PBORIG	Peak hour Blocked ORIGINations The number of calls that were unable to be started by a local subscriber because all circuits were busy during the peak traffic hour. <i>PBORIG</i> is a Integer. <i>PBORIG</i> is optional.
PBTERM	Peak hour Blocked TERMINations The number of calls that were unable to terminate on a local subscriber because all circuits were busy during the peak traffic hour. <i>PBTERM</i> is a Integer. <i>PBTERM</i> is optional.
TSTARTDAY	Total START DAY. The day on which the traffic counters were last reset. <i>TSTARTDAY</i> is a Date. <i>TSTARTDAY</i> is optional.
TSTARTTIME	Total START TIME. The time at which the traffic counters were last reset. <i>TSTARTTIME</i> is a Time. <i>TSTARTTIME</i> is optional.
TTRAF	Total TRAFFic. The total amount of traffic since the counters were last reset. The measurement is given in CCS – hundreds of seconds of usage per circuit per hour. <i>TTRAF</i> is a Integer. <i>TTRAF</i> is optional.
TBUSY	Total all circuits BUSY. The number of seconds that all circuits were busy since the counters were last reset. <i>TBUSY</i> is a Integer. <i>TBUSY</i> is optional.
TORIG	Total ORIGINations. The number of originations from the subscriber end since the counters were last reset. <i>TORIG</i> is a Integer. <i>TORIG</i> is optional.
TTERM	Total TERMINations. The number of calls terminating on a local subscriber since the counters were last reset. <i>TTERM</i> is a Integer. <i>TTERM</i> is optional.
TBORIG	Total Blocked ORIGINations. The number of calls that were unable to be started by a local subscriber because all circuits were busy since the counters were last reset. <i>TBORIG</i> is a Integer. <i>TBORIG</i> is optional.

TBTERM	Total Blocked TERMinations. The number of calls that were unable to terminate on a local subscriber because all circuits were busy since the counters were last reset. <i>TBTERM</i> is a Integer. <i>TBTERM</i> is optional.
MAXACTCALLS	MAXimum ACTive CALLS. The maximum number of active calls supported by the Interface Group. This depends on the particular type of voice processing resources associated with the particular IG type. <i>MAXACTCALLS</i> is a Integer. <i>MAXACTCALLS</i> is optional.
CURRACTCALLS	CURRent ACTive CALLS. The current number of active calls present on the Interface Group. <i>CURRACTCALLS</i> is a Integer. <i>CURRACTCALLS</i> is optional.
PROVDS0	PROVisioned DS0s. The total number of subscriber DS0 cross-connects supported by the Interface Group. <i>PROVDS0</i> is a Integer. <i>PROVDS0</i> is optional.
VGPMONCHANAVAIL	Voice Gateway Processor (VGP) MONitored CHANnels AVAILable. The parameter would specify the number of monitor channels that are currently available for monitoring additional subscribers, based on remaining VGP resources. This parameter only applies to AAL2 VCGs. <i>VGPMONCHANAVAIL</i> is a Integer. <i>VGPMONCHANAVAIL</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-1-IG1:N3-2 : PSTARTDAY=2002-12-04, PSTARTTIME=17-34-
22, PTRAF=28, PBUSY=12,
PORIG=120, PTERM=85, PBORIG=0, PBTERM=0, TSTARTDAY=2002-12-1,
TSTARTTIME=07-02-
23, TTRAF=404, TBUSY=0, TORIG=2315, TTERM=1812, TBORIG=0,
TBTERM=0, MAXACTCALLS=384, CURRACTCALLS=1, PROVDS0=12, VGPMONCHANAVAIL=10"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-USER-ACL

Name

RTRV-USER-ACL: Retrieve User ACL

Description

Category: Security

Security: Security User

Retrieves the User Access Control List. This is a list of IP interfaces from which a client TL1 or iMS session is allowed. If empty, no access restrictions are made.

Related Messages:

[ACT-USER](#)

[CANC](#)

[CANC-PPPOESESS](#)

[CANC-USER](#)

[DLT-USER-SECU](#)

[ED-USER-SECU](#)

[ENT-USER-SECU](#)

[RTRV-USER-SECU](#)

[ALW-USER-SECU](#)

[CANC-CID-SECU](#)

[CANC-SES-SECU](#)

[DLT-USER-ACL](#)

[ED-PID](#)

[ENT-USER-ACL](#)

[INH-USER-SECU](#)

Input Format

```
RTRV-USER-ACL:[TID]:::[CTAG];
```

Input Example

```
RTRV-USER-ACL:::6;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
" :: [ IP=<IP>, ] [ IPMSK=<IPMSK> ] "
;
```

Output Parameters

IP IP Address. The IP address of the Tl1 or iMS client that is allowed to connect to the C7 network. *IP* is the AID [IpAid](#). *IP* is optional.

IPMSK IP Address Mask. The mask to apply to the IP address, allowing for a range of IP addresses to be considered. *IPMSK* is the AID [IpAid](#). *IPMSK* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
" ::IP=172.22.90.101,IPMSK=255.255.255.0"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-USER-SECU

Name

RTRV-USER-SECU: Retrieve User Security

Description

Category: Security **Security:** Security Administrator

This command is used to retrieve the privilege/security level of the User ID specified. It does not return a user's password. Usually, only an administrator may invoke the general version of this command. The AID block contains the user identifier. Individual users are only able to retrieve their own information. The command with any UID other than their own will be rejected.

Any TID may be used for this command as the security data associated with this command will be updated across the entire C7 network as a result of the execution of this command.

Defined in TR-835.

Related Messages:

ACT-USER	ALW-MSG-SECU
ALW-USER-SECU	CANC
CANC-CID-SECU	CANC-PPPOESESS
CANC-SES-SECU	CANC-USER
DLT-TMPLT-SECU	DLT-USER-ACL
DLT-USER-SECU	ED-PID
ED-RADIUS	ED-SYS-SECU
ED-TMPLT-SECU	ED-USER-SECU
ENT-TMPLT-SECU	ENT-USER-ACL
ENT-USER-SECU	INH-MSG-SECU
INH-USER-SECU	REPT ALM SECU
REPT EVT SECU	RTRV-ALM-SECU
RTRV-COND-SECU	RTRV-RADIUS
RTRV-STATUS	RTRV-SYS-SECU
RTRV-TMPLT-SECU	RTRV-USER-ACL

Input Format

RTRV-USER-SECU: [TID] :<UID> : [CTAG] ;

Input Parameters

UID User Identifier. The user's identifier for session to be cancelled. It is a non-confidential identifier that uniquely determines a user. The user's identifier is any combination of alphanumeric characters 4 to 10 characters long and is case-sensitive. A value of ALL is allowed for retrieving all users. *UID* is the AID [UserAllAid](#). *UID* must not be null.

Input Example

```
RTRV-USER-SECU:SYSTEM3:WANDAJ:123;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<UID>:: [ [ PAGE=<PAGE>, ] [ PCND=<PCND>, ] [ TMOUT=<TMOUT>, ] [ UAPMA=<UAPMA>, ]
[ UAPMT=<UAPMT>, ] [ UAPSE=<UAPSE>, ] [ UAPSY=<UAPSY>, ] [ UAPTS=<UAPTS>, ]
[ NODEAID=<NODEAID>, ] [ ENTADA=<ENTADA>, ] [ INH=<INH>, ] [ LASTDATE=<LASTDATE>, ]
[ LASTTIME=<LASTTIME>, ] [ LASTCID=<LASTCID> ] ]"
;
```

Output Parameters

- UID** User Identifier. The user's identifier for session to be cancelled. It is a non-confidential identifier that uniquely determines a user. The user's identifier is any combination of alphanumeric characters 4 to 10 characters long and is case-sensitive. *UID* is the AID [UserAid](#).
- PAGE** Password Aging Interval. The password aging interval is expressed in days. It is an integer less than or equal to 999, typically 45 to 60. At the end of the interval the user is notified that the existing password needs to be changed each time they log in. A value of zero indicates the user's password will never expire. *PAGE* is of type [UserInterval](#). *PAGE* is optional.
- PCND** Password ChaNge Days. This parameter specifies the number of days the user has between the time they are first notified that they must change their password and the time their USERID is disabled. *PCND* is of type [UserInterval](#). *PCND* is optional.
- TMOUT** TiMe OUT. This parameter specifies the number of minutes of inactivity that must pass before their session is automatically logged out. A value of zero indicates that the user's sessions are never to be logged out due to inactivity. *TMOUT* is of type [TimeOut](#). *TMOUT* is optional.
- UAPMA** User Access Privilege for Memory Administration. This parameter specifies the abilities of a user for executing memory administration commands. *UAPMA* is of type [AcsPrv](#). *UAPMA* is optional.
- UAPMT** User Access Privilege for MainTenance. This parameter specifies the abilities of a user for executing maintenance commands. *UAPMT* is of type [AcsPrv](#). *UAPMT* is optional.
- UAPSE** User Access Privilege for SEcurity. This parameter specifies the abilities of a user for executing security commands. *UAPSE* is of type [AcsPrv](#). *UAPSE* is optional.
- UAPSY** User Access Privilege for SYstem. This parameter specifies the abilities of a user for

executing system commands. *UAPSY* is of type [AcsPrv](#). *UAPSY* is optional.

UAPTS User Access Privilege for TeSting. This parameter specifies the abilities of a user for executing testing commands. *UAPTS* is of type [AcsPrv](#). *UAPTS* is optional.

NODEAID Use NODE Access IDentifier. This parameter is set to Y (Yes) if AIDs in responses to this user are to contain node identifiers. This is the normal setting. N (No) needs to be specified for Operations Systems (such as NMA) that cannot tolerate node identifiers. For these systems, AIDs for the same node as was identified in the TID of the command will have the Nx- deleted from the AID in responses and autonomous reports. For input, the node identifier may be omitted if the node is the same as is identified in the TID. *NODEAID* is of type [BoolYN](#). *NODEAID* is optional.

ENTADA This boolean flag determines whether or not the user may perform an ENTer on an object that is in ADA state. *ENTADA* is of type [BoolYN](#). *ENTADA* is optional.

INH Is user inhibited? *INH* is of type [BoolYN](#). *INH* is optional.

LASTDATE Date of last login. *LASTDATE* is a Date. *LASTDATE* is optional.

LASTTIME Time of last login. *LASTTIME* is a Time. *LASTTIME* is optional.

LASTCID Channel Id of last login. *LASTCID* is the AID [CID](#). *LASTCID* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD

"WANDAJ::PAGE=999,PCND=3,TMOUT=0,UAPMA=FULL,UAPMT=FULL,UAPSE=MIN,UAPSY=MIN,
    UAPTS=FULL,NODEAID=N,ENTADA=Y,INH=N,LASTDATE=01-14-05,LASTTIME=12-
30,
    LASTCID=N1-1-MS-E1"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-VB

Name

RTRV-VB: Retrieve Virtual Bridge

Description

Category: IP **Security:** Memory Admin - read

Retrieve the virtual bridge object.

Related Messages:

DLT-CVIDREG	DLT-IGMP-JOIN
DLT-MACHOST	DLT-VB
DLT-VBPORT	DLT-VLAN-VBPORT
DLT-VR	DLT-VRPORT
ED-CVIDREG	ED-IGMP
ED-MACHOST	ED-VB
ED-VBPORT	ED-VLAN-VBPORT
ED-VR	ENT-CVIDREG
ENT-IGMP-JOIN	ENT-MACHOST
ENT-VB	ENT-VBPORT
ENT-VLAN-VBPORT	ENT-VR
ENT-VRPORT	REPT ALM VB
REPT ALM VR	REPT EVT VB
REPT EVT VR	RTRV-ALM-VB
RTRV-ALM-VR	RTRV-CVIDREG
RTRV-IGMP	RTRV-IGMP-JOIN
RTRV-MACHOST	RTRV-VBPORT
RTRV-VLAN-VBPORT	RTRV-VR
RTRV-VRPORT	

Input Format

```
RTRV-
VB:[TID]:<VbAid>:[CTAG]:::[OPTION82=<OPTION82>,][L2RLYMODE=<L2RLYMODE>]]
;
```

Input Parameters

VbAid *VbAid* is the AID [VbRngAid](#) and is listable and rangeable. *VbAid* must not be null.

OPTION82 *Not supported in release 6.0.* This can be supplied as an optional request filter. *OPTION82* is of type [Option82](#). A null value defaults to "ALL".

L2RLYMODE *Not supported in release 6.0.* This can be supplied as an optional request filter. *L2RLYMODE* is of type [DhcpL2RelayMode](#). A null value defaults to "ALL".

Input Example

```
RTRV-VB::N1-1-VB1:543:::OPTION82=NONE,L2RLYMODE=NONE;
```

Output Format

SID	DATE	TIME
M	CTAG	COMPLD
"<VbAid>:::[FWDMODE=<FWDMODE>,][BW=<BW>,[AUTOVLAN=<AUTOVLAN>,[
VLANPORTTMPLT=<VLANPORTTMPLT>,[AGETMR=<AGETMR>,[PPPOAIWF=<PPPOAIWF>,		

```
[OPTION82=<OPTION82>, ][L2RLYMODE=<L2RLYMODE>, ][DESC=<DESC>] ] "
```

Output Parameters

VbAid	<i>VbAid</i> is the AID VbAid .
FWDMODE	For WarD MODE. Selects VB switching mode as either Layer 2 Switched Mode or Layer 3 RBE Routed Mode. <i>FWDMODE</i> is of type FwdMode . <i>FWDMODE</i> is optional.
BW	Bandwidth - Amount of guaranteed bandwidth allocated (in kbps), per slot, for slot-to-slot intra-bridge traffic <i>BW</i> is a Integer. <i>BW</i> is optional.
AUTOVLAN	Auto VLAN - VLAN AID to be used on the bridge. This will generate a VLAN object using the VLAN number provided here. <i>AUTOVLAN</i> is the AID PacketVlanAid . <i>AUTOVLAN</i> is optional.
VLANPORTTMPLT	<i>VLANPORTTMPLT</i> is the AID VirtualBridgeId . <i>VLANPORTTMPLT</i> is optional.
AGETMR	<i>Not supported in release 6.0</i> . <i>AGETMR</i> is a Integer. <i>AGETMR</i> is optional.
PPPOAIWF	<i>Not supported in release 6.0</i> . <i>PPPOAIWF</i> is of type BoolYN . <i>PPPOAIWF</i> is optional.
OPTION82	<i>Not supported in release 6.0</i> . The Option-82 type used by the L2 DHCP relay. <i>OPTION82</i> is of type Option82 . <i>OPTION82</i> is optional.
L2RLYMODE	<i>Not supported in release 6.0</i> . DHCP L2 Relay Mode. <i>L2RLYMODE</i> is of type DhcpL2RelayMode . <i>L2RLYMODE</i> is optional.
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String. <i>DESC</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "N1-1-VB1::FWDMODE=SWITCHED,BW=1000,AUTOVLAN=N1-1-
VLAN1,VLANPORTTMPLT=1,
  AGETMR=500,PPPOAIWF=Y,OPTION82=NONE,L2RLYMODE=NONE,
  DESC=\"DESCRIPTION\""
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-VBPORT

Name

RTRV-VBPORT: Retrieve VBPORT

Description

Category: IP **Security:** Memory Admin - read

Retrieve Virtual Bridge Port.

Related Messages:

DLT-CVIDREG	DLT-IGMP-JOIN
DLT-MACHOST	DLT-VB
DLT-VBPORT	DLT-VLAN-VBPORT
DLT-VR	DLT-VRPORT
ED-CVIDREG	ED-IGMP
ED-MACHOST	ED-VB
ED-VBPORT	ED-VLAN-VBPORT
ED-VR	ENT-CVIDREG
ENT-IGMP-JOIN	ENT-MACHOST
ENT-VB	ENT-VBPORT
ENT-VLAN-VBPORT	ENT-VR
ENT-VRPORT	REPT ALM VB
REPT ALM VR	REPT EVT VB
REPT EVT VR	RTRV-ALM-VB
RTRV-ALM-VR	RTRV-CVIDREG
RTRV-IGMP	RTRV-IGMP-JOIN
RTRV-MACHOST	RTRV-VB
RTRV-VLAN-VBPORT	RTRV-VR
RTRV-VRPORT	

Input Format

```
RTRV-VBPORT:[TID]:<VbPortAid>:[CTAG];
```

Input Parameters

VbPortAid Virtual Bridge Port Aid - This identifies either physical port or VC endpoint associated with the Virtual Bridge. *VbPortAid* is the AID [VirtualBridgePortId1](#) and is listable and rangeable. *VbPortAid* must not be null.

Input Example

```
RTRV-VBPORT:SYS:N1-1-VB2-4-1:1234;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD

"<VbPortAid>:: [ [ ENCAP=<ENCAP>, ][ DOS=<DOS>, ][ STP=<STP>, ][ DIRN=<DIRN>, ]
[ STPCOST=<STPCOST>, ][ STPPRIO=<STPPRIO>, ][ PVID=<PVID>, ]
[ STAGTYPE=<STAGTYPE>, ][ PORTTYPE=<PORTTYPE>, ][ LEARNING=<LEARNING>, ]
[ PINNED=<PINNED>, ][ STPST=<STPST>, ][ ROLE=<ROLE> ] ]"
;
```

Output Parameters

VbPortAid	Virtual Bridge Port Aid - This identifies either physical port or VC endpoint associated with the Virtual Bridge. <i>VbPortAid</i> is the AID VirtualBridgePortId .
ENCAP	Encapsulation Type. <i>ENCAP</i> is of type EncapType . <i>ENCAP</i> is optional.
DOS	Denial of Service enabled. <i>DOS</i> is of type BoolYN . <i>DOS</i> is optional.
STP	Spanning Tree Protocol enabled. <i>STP</i> is of type BoolYN . <i>STP</i> is optional.
DIRN	The direction of traffic. <i>DIRN</i> is of type VbPortDirection . <i>DIRN</i> is optional.
STPCOST	Cost of the port participating in STP. This is used to determine the root port. <i>STPCOST</i> is a Integer. <i>STPCOST</i> is optional.
STPPRIO	STP Priority. STP Priority values are in the range 0-240 and in steps of 16. <i>STPPRIO</i> is a Integer. <i>STPPRIO</i> is optional.
PVID	Port Vlan ID. <i>Not supported in release 5.1</i> <i>PVID</i> is of type VlanTag . <i>PVID</i> is optional.
STAGTYPE	<i>Not supported in release 6.0</i> . <i>STAGTYPE</i> is of type StagEthType . <i>STAGTYPE</i> is optional.
PORTTYPE	<i>Not supported in release 6.0</i> . <i>PORTTYPE</i> is of type VbPortType . <i>PORTTYPE</i> is optional.
LEARNING	<i>Not supported in release 6.0</i> . <i>LEARNING</i> is of type BoolYN . <i>LEARNING</i> is optional.
PINNED	For logical VBPORTs (used in ENT-CRS-VC), this parameter governs whether the VBPORT endpoint will be automatically deleted upon DLT-CRS-VC. <i>PINNED</i> is of type BoolYN . <i>PINNED</i> is optional.
STPST	STP SState. <i>STPST</i> is of type StpPortState . <i>STPST</i> is optional.
ROLE	STP Port Role. <i>ROLE</i> is of type StpPortRole . <i>ROLE</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
  "N1-1-VB2-4-
1::ENCAP=ETHERNETV2,DOS=Y,STP=Y,DIRN=BOTH,STPCOST=2,STPPRIO=1,
PVID=3,STAGTYPE=CTAG_8100,PORTTYPE=USER,LEARNING=Y,PINNED=N,
  STPST=FORWARDING,ROLE=ROOT"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-VCG

Name

RTRV-VCG: Retrieve Voice Concentration Group

Description

Category: TDM Services **Security:** Memory Admin - read

This command is used to retrieve attributes of a Voice Concentration Group.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV ONT	REPT RMV RFVID
REPT RST AVO	REPT RST ONT
REPT RST RFVID	RMV-AVO
RMV-ONT	RMV-RFVID
RST-AVO	RST-ONT
RST-RFVID	RTRV-ALM-AVO
RTRV-ALM-ONT	RTRV-ALM-RFVID
RTRV-ALM-VCG	RTRV-ALM-VRP
RTRV-AVO	RTRV-COND-ONT
RTRV-COND-VCG	RTRV-COND-VRP

[RTRV-GOS-ONT](#)
[RTRV-ONT](#)
[RTRV-PM-ONT](#)
[RTRV-RFVID](#)
[RTRV-STAT-RFR](#)
[RTRV-VRP](#)

[RTRV-IG-VDS1](#)
[RTRV-ONT-UA](#)
[RTRV-PROF-ONT](#)
[RTRV-STAT-HPNA](#)
[RTRV-VDS1](#)
[TST-ONT-MET](#)

Input Format

```
RTRV-VCG:[TID]:<IgAid>:[CTAG];
```

Input Parameters

IgAid The address of the Voice Concentration Group(s) to retrieve. *IgAid* is the AID [IgRngAid](#) and is listable and rangeable. *IgAid* must not be null.

Input Example

```
RTRV-VCG:SYS:N1-2-IG3:458;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<IgAid>::[ [BWC=<BWC>, ][CAPALMTHR=<CAPALMTHR>] ] "
;
```

Output Parameters

IgAid The address of the Voice Concentration Group. *IgAid* is the AID [IgAid](#).

BWC Bandwidth Constraint used to manage AAL2 services in the network. *BWC* is the AID [BwcAid](#). *BWC* is optional.

CAPALMTHR Capacity Alarm Threshold. The percentage of active call capacity of the VCG at which a capacity alarm should be raised. *CAPALMTHR* is of type [Percentage](#). *CAPALMTHR* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-2-IG3::BWC=4,CAPALMTHR=85"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-VCGLINK

Name

RTRV-VCGLINK: Retrieve VCGLINK

Description

Category: TDM Services **Security:** Memory Admin - read

Retrieve the assignment a Voice Concentration Group (VCG) to links.

Input Format

```
RTRV-VCGLINK:[TID]:<IgAid>:[CTAG];
```

Input Parameters

IgAid The address of the Voice Concentration Group. *IgAid* is the AID [IgRngAid](#) and is listable and rangeable. *IgAid* must not be null.

Input Example

```
RTRV-VCGLINK:SYS:N1-2-IG3:234;
```

Output Format

```
    SID DATE TIME
M    CTAG COMPLD
    "<IgAid>:[<LINK>]:[BW=<BW>]"
;
```

Output Parameters

IgAid The address of the Voice Concentration Group. *IgAid* is the AID [IgAid](#).

LINK *LINK* is the AID [VcglinkId2](#) and is listable. *LINK* is optional.

BW *BW* is a Integer. *BW* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
```

```
M 001 COMPLD
"N1-2-IG3:N1-2-6-2-1&N2-1-5-1-1&N2-2-20-1-1:BW=1024"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-VDS1

Name

RTRV-VDS1: Retrieve VDS1

Description

Category: TDM Services **Security:** Memory Admin - read

Retrieve the Virtual DS1s assigned to a Voice Concentration Group to Manage the call capacity of the group.

Related Messages:

DLT-AVO	DLT-GOS-ONT
DLT-IG-VDS1	DLT-ONT
DLT-PROF-ONT	DLT-RFVID
DLT-VCG	DLT-VRP
ED-AVO	ED-GOS-ONT
ED-ONT	ED-PROF-ONT
ED-RFVID	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-VCG
ENT-VRP	INIT-ONT-UA
INIT-REG-ONT	REPT ALM AVO
REPT ALM ONT	REPT ALM RFVID
REPT ALM VCG	REPT ALM VRP
REPT EVT ONT	REPT RMV AVO
REPT RMV ONT	REPT RMV RFVID
REPT RST AVO	REPT RST ONT
REPT RST RFVID	RMV-AVO

[RMV-ONT](#)
[RST-AVO](#)
[RST-RFVID](#)
[RTRV-ALM-ONT](#)
[RTRV-ALM-VCG](#)
[RTRV-AVO](#)
[RTRV-COND-VCG](#)
[RTRV-GOS-ONT](#)
[RTRV-ONT](#)
[RTRV-PM-ONT](#)
[RTRV-RFVID](#)
[RTRV-STAT-RFR](#)
[RTRV-VRP](#)

[RMV-RFVID](#)
[RST-ONT](#)
[RTRV-ALM-AVO](#)
[RTRV-ALM-RFVID](#)
[RTRV-ALM-VRP](#)
[RTRV-COND-ONT](#)
[RTRV-COND-VRP](#)
[RTRV-IG-VDS1](#)
[RTRV-ONT-UA](#)
[RTRV-PROF-ONT](#)
[RTRV-STAT-HPNA](#)
[RTRV-VRG](#)
[TST-ONT-MET](#)

Input Format

```
RTRV-VDS1:[TID]:<Vds1Aid>:[CTAG];
```

Input Parameters

Vds1Aid Virtual DS1 Location. *Vds1Aid* is the AID [Vds1NtwkRngAid](#) and is listable and rangeable. *Vds1Aid* must not be null.

Input Example

```
RTRV-VDS1:SYS:N1-2-7-V1:444;
```

Output Format

```
    SID DATE TIME
M    CTAG COMPLD
    "<Vds1Aid>::[IGDS1=<IGDS1>]"
;
```

Output Parameters

Vds1Aid The "physical location" of the virtual DS1 port associated with the IG. *Vds1Aid* is the AID [Vds1Aid](#).

IGDS1 The address of the logical DS1 Line Termination in a VCG interface group. *IGDS1* is the AID [IgDs1Aid](#). *IGDS1* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
    "N1-2-7-V1::IGDS1=N1-2-IG3-1"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-VID-CHAN

Name

RTRV-VID-CHAN: Retrieve Video Channel

Description

Category: Video **Security:** Memory Admin - read

Retrieve a Video Channel.

Related Messages:

[DLT-DHCP-OUI](#)
[DLT-IP-ROUTE](#)
[DLT-SUBIF-BINDING](#)
[DLT-VID-IRCLOC](#)
[DLT-VID-SVC](#)
[DLT-VODDSTLU](#)
[DLT-VODSRCLU](#)
[ED-ARP](#)
[ED-VID-CHAN](#)
[ED-VID-SVC](#)
[ENT-DHCP-OUI](#)
[ENT-IP-ROUTE](#)
[ENT-SUBIF-BINDING](#)
[ENT-VID-IRCLOC](#)
[ENT-VID-SVC](#)
[REPT EVT VODFLOW](#)
[RTRV-DHCP-LEASE](#)
[RTRV-IP-IF](#)
[RTRV-IPIF-PORT](#)
[RTRV-VID-IRCLOC](#)
[RTRV-VID-SVC](#)
[RTRV-VODDSTLU](#)

[DLT-IP-IF](#)
[DLT-IPIF-PORT](#)
[DLT-VID-CHAN](#)
[DLT-VID-SUB](#)
[DLT-VODCLNT](#)
[DLT-VODFLOW](#)
[DLT-VODSVR](#)
[ED-IPIF-PORT](#)
[ED-VID-SUB](#)
[ED-VODDSTLU](#)
[ENT-IP-IF](#)
[ENT-IPIF-PORT](#)
[ENT-VID-CHAN](#)
[ENT-VID-SUB](#)
[ENT-VODDSTLU](#)
[RTRV-ARP](#)
[RTRV-DHCP-OUI](#)
[RTRV-IP-ROUTE](#)
[RTRV-SUBIF-BINDING](#)
[RTRV-VID-SUB](#)
[RTRV-VODCLNT](#)
[RTRV-VODFLOW](#)

RTRV-VODSRCLURTRV-VODSVR**Input Format**

```
RTRV-VID-
CHAN:[ TID ]:<IP>:[ CTAG ]:::[ [ VP=<VP> , ] [ VC=<VC> , ] [ TRFPROF=<TRFPROF> , ]
[ DESC=<DESC> ] ];
```

Input Parameters

- IP** *IP* is the AID [IpRngAid](#). *IP* must not be null.
- VP** The VP number associated with the video transport VCs to deliver this channel to the different shelves. When specified here, this parameter acts as a filter to only return channels with the specified VP. *VP* is of type [VPRange](#). A null value is equivalent to "ALL".
- VC** The VC number associated with the video transport VCs to deliver this channel to the different shelves. When specified here, this parameter acts as a filter to only return channels with the specified VC. *VC* is of type [VCRange](#). A null value is equivalent to "ALL".
- TRFPROF** Traffic Profile. This parameter identifies which Traffic Profile which is being used by the channel. When specified here, this parameter acts as a filter to only return channels with the specified TRFPROF. *TRFPROF* is the AID [AtmTrfProfProvAid](#). A null value is equivalent to "ALL".
- DESC** Channel description. The description can be up to 40 characters in length. *DESC* is a String. A null value is equivalent to "ALL".

Input Example

```
RTRV-VID-
CHAN::192.168.1.0:32:::VP=2000,VC=30000,TRFPROF=21,DESC="CHANNEL" ;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<IP>:::[ [ VP=<VP> , ] [ VC=<VC> , ] [ TRFPROF=<TRFPROF> , ] [ DESC=<DESC> , ]
[ COUNT=<COUNT> ] ]"
;"
```

Output Parameters

- IP** *IP* is the AID [IpAid](#).
- VP** The VP number associated with the video transport VCs to deliver this channel to the different shelves. *VP* is of type [VPRange](#). *VP* is optional.
- VC** The VC number associated with the video transport VCs to deliver this channel to the different shelves. *VC* is of type [VCRange](#). *VC* is optional.
- TRFPROF** Traffic Profile. This parameter identifies which Traffic Profile which is being used by the channel. The Traffic Profile specifies the bandwidth parameters. The Traffic Profile must have its APP set to an Application Id of either VIDCHNL or DATACAROUSEL to be

used as a channel. *TRFPROF* is the AID [AtmTrfProfProvAid](#). *TRFPROF* is optional.

- DESC** Channel description. The description can be up to 40 characters in length. *DESC* is a String. *DESC* is optional.
- COUNT** Count of ADSL ports currently receiving this channel. This is not exactly the total number of STBs receiving this channel because if 2 STBs on the same ADSL port gets the same channel, only 1 ADSL video channel is used. *COUNT* is of type [Video16BitRange](#). *COUNT* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"192.168.1.0::VP=2000,VC=30000,TRFPROF=21,DESC= "CHANNEL" ,COUNT=5 "
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-VID-IRCLOC

Name

RTRV-VID-IRCLOC: RTRV VID IRCLOC

Description

Category: Video **Security:** Memory Admin - read

This command is used to retrieve IRCs parameters from the video service.

Related Messages:

DLT-DHCP-OUI	DLT-IP-IF
DLT-IP-ROUTE	DLT-IPIF-PORT
DLT-SUBIF-BINDING	DLT-VID-CHAN
DLT-VID-IRCLOC	DLT-VID-SUB
DLT-VID-SVC	DLT-VODCLNT
DLT-VODDSTLU	DLT-VODFLOW
DLT-VODSRCLU	DLT-VODSVR
ED-ARP	ED-IPIF-PORT
ED-VID-CHAN	ED-VID-SUB

[ED-VID-SVC](#)
[ENT-DHCP-OUI](#)
[ENT-IP-ROUTE](#)
[ENT-SUBIF-BINDING](#)
[ENT-VID-IRCLOC](#)
[ENT-VID-SVC](#)
[REPT EVT VODFLOW](#)
[RTRV-DHCP-LEASE](#)
[RTRV-IP-IF](#)
[RTRV-IPIF-PORT](#)
[RTRV-VID-CHAN](#)
[RTRV-VID-SVC](#)
[RTRV-VODDSTLU](#)
[RTRV-VODSRCLU](#)

[ED-VODDSTLU](#)
[ENT-IP-IF](#)
[ENT-IPIF-PORT](#)
[ENT-VID-CHAN](#)
[ENT-VID-SUB](#)
[ENT-VODDSTLU](#)
[RTRV-ARP](#)
[RTRV-DHCP-OUI](#)
[RTRV-IP-ROUTE](#)
[RTRV-SUBIF-BINDING](#)
[RTRV-VID-SUB](#)
[RTRV-VODCLNT](#)
[RTRV-VODFLOW](#)
[RTRV-VODSVR](#)

Input Format

```
RTRV-VID-IRCLOC:[TID]:<VidServAid>:[CTAG];
```

Input Parameters

VidServAid Video Service Access Identifier. The AID of the Video Service that contains the IRC.
VidServAid is the AID [VidServRngAid](#). *VidServAid* must not be null.

Input Example

```
RTRV-VID-IRCLOC:SYS2:1:34;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
  "<VidServAid>:[IRCAID=<IrcAid>]"
;
```

Output Parameters

VidServAid Video Service Access Identifier. The AID of the Video Service that contains the IRC.
VidServAid is the AID [VidServAid](#).

IrcAid Slot address of the IRC. *IrcAid* is the AID [SlotLuAid](#). *IrcAid* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "1::IRCAID=N1-1-19"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-VID-SUB

Name

RTRV-VID-SUB: Retrieve Video SUB

Description

Category: Video **Security:** Memory Admin - read

This command retrieves the video subscriber record. This command can be send to the IRC (for now) and eventually the GE2P.

Related Messages:

DLT-DHCP-OUI	DLT-IP-IF
DLT-IP-ROUTE	DLT-IPIF-PORT
DLT-SUBIF-BINDING	DLT-VID-CHAN
DLT-VID-IRCLOC	DLT-VID-SUB
DLT-VID-SVC	DLT-VODCLNT
DLT-VODDSTLU	DLT-VODFLOW
DLT-VODSRCLU	DLT-VODSVR
ED-ARP	ED-IPIF-PORT
ED-VID-CHAN	ED-VID-SUB
ED-VID-SVC	ED-VODDSTLU
ENT-DHCP-OUI	ENT-IP-IF
ENT-IP-ROUTE	ENT-IPIF-PORT
ENT-SUBIF-BINDING	ENT-VID-CHAN
ENT-VID-IRCLOC	ENT-VID-SUB
ENT-VID-SVC	ENT-VODDSTLU
REPT EVT VODFLOW	RTRV-ARP
RTRV-DHCP-LEASE	RTRV-DHCP-OUI
RTRV-IP-IF	RTRV-IP-ROUTE
RTRV-IPIF-PORT	RTRV-SUBIF-BINDING
RTRV-VID-CHAN	RTRV-VID-IRCLOC
RTRV-VID-SVC	RTRV-VODCLNT

[RTRV-VODDSTLU](#)
[RTRV-VODSRCLU](#)

[RTRV-VODFLOW](#)
[RTRV-VODSVR](#)

Input Format

```
RTRV-VID-
SUB:[TID]:<VidSubAid>:[CTAG]:::RTRAID=<RTRAID>, [[SCOPE=<SCOPE>,
[CHANIP=<CHANIP>,[STBIP=<STBIP>]];
```

Input Parameters

- VidSubAid** Video Subscriber Access Identifier - The port or channel to which subscribers are connected. Usually an ADSL Channel or ONT (or vdsl in the future) port. *VidSubAid* is the AID [VidSubRngAid](#). *VidSubAid* must not be null.
- RTRAID** RTRAID - Location of IRC to handle the command *RTRAID* is the AID [SlotLuAid](#). *RTRAID* must not be null.
- SCOPE** This flag allows the user to view only the fixed rate ports, only the variable rate ports or all the ports. *SCOPE* is of type [VideoBwcScope](#) and is listable. A null value defaults to "ALL".
- CHANIP** IP Address of the channel flowing to the port. This can be supplied to filter the request. *CHANIP* is the AID [IpAid](#). A null value is equivalent to "ALL".
- STBIP** Ip address of the STB on the port. This can be supplied to filter the request. *STBIP* is the AID [IpAid](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-VID-SUB:SYS:N1-3-1-1:567:::RTRAID=N1-1-
10,SCOPE=FIXED,CHANIP=10.1.1.1,
STBIP=11.1.1.1;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<VidSubAid>::RTRAID=<RTRAID>, [[CHANCNT=<CHANCNT>,[VIDBW=<VIDBW>,
[VIDLOANBW=<VIDLOANBW>,[BWINUSE=<BWINUSE>,[CHANIP=<CHANIP>,[VP=<VP>,
[VC=<VC>,[STBIP=<STBIP>]]]];
```

Output Parameters

- VidSubAid** Video Subscriber Access Identifier - The port or channel to which subscribers are connected. Usually an ADSL Channel or ONT (or vdsl in the future) port. *VidSubAid* is the AID [VidSubAid](#).
- RTRAID** RTRAID - Location of IRC to handle the command *RTRAID* is the AID [SlotLuAid](#).
- CHANCNT** Number of unique channels flowing to the port *CHANCNT* is a Integer. *CHANCNT* is optional.

VIDBW	Video Bandwidth - In Kilobits per second. This value is the maximum Downstream (TX) BW reserved for video on the port. <i>VIDBW</i> is a Integer. <i>VIDBW</i> is optional.
VIDLOANBW	Maximum Video Loan Bandwidth - in kbps. Maximum amount of bandwidth to lend back to UBR applications. This value cannot exceed the Max Video BW value. <i>VIDLOANBW</i> is a Integer. <i>VIDLOANBW</i> is optional.
BWINUSE	Total BW in use for video on the port in Kbps <i>BWINUSE</i> is a Integer. <i>BWINUSE</i> is optional.
CHANIP	IP Address of the channel flowing to the port. There can be upto 12 of these channels. <i>CHANIP</i> is the AID IpAid and is listable. <i>CHANIP</i> is optional.
VP	Destination VPI of the ATM VC carrying the channel flowing to the port. <i>VP</i> is of type VPRange and is listable. <i>VP</i> is optional.
VC	Destination VCI of the ATM VC carrying the channel flowing to the port. <i>VC</i> is of type VCRange and is listable. <i>VC</i> is optional.
STBIP	Ip address of the STB on the port. There can be upto 5 STBs on a port. <i>STBIP</i> is the AID IpAid and is listable. <i>STBIP</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-3-1-1::RTRAID=N1-1-
10,CHANCNT=5,VIDBW=10000,VIDLOANBW=2000,
    BWINUSE=3000,CHANIP=10.1.1.1,VP=20,VC=3000,STBIP=11.1.1.1"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-VID-SVC

Name

RTRV-VID-SVC: Retrieve Video Service

Description

Category: Video **Security:** Memory Admin - read

This command is used to retrieve IRCS parameters from the video service.

Related Messages:

DLT-DHCP-OUI	DLT-IP-IF
DLT-IP-ROUTE	DLT-IPIF-PORT
DLT-SUBIF-BINDING	DLT-VID-CHAN
DLT-VID-IRCLOC	DLT-VID-SUB
DLT-VID-SVC	DLT-VODCLNT
DLT-VODDSTLU	DLT-VODFLOW
DLT-VODSRCLU	DLT-VODSVR
ED-ARP	ED-IPIF-PORT
ED-VID-CHAN	ED-VID-SUB
ED-VID-SVC	ED-VODDSTLU
ENT-DHCP-OUI	ENT-IP-IF
ENT-IP-ROUTE	ENT-IPIF-PORT
ENT-SUBIF-BINDING	ENT-VID-CHAN
ENT-VID-IRCLOC	ENT-VID-SUB
ENT-VID-SVC	ENT-VODDSTLU
REPT EVT VODFLOW	RTRV-ARP
RTRV-DHCP-LEASE	RTRV-DHCP-OUI
RTRV-IP-IF	RTRV-IP-ROUTE
RTRV-IPIF-PORT	RTRV-SUBIF-BINDING
RTRV-VID-CHAN	RTRV-VID-IRCLOC
RTRV-VID-SUB	RTRV-VODCLNT
RTRV-VODDSTLU	RTRV-VODFLOW
RTRV-VODSRCLU	RTRV-VODSVR

Input Format

```
RTRV-VID-SVC:[TID]:<VidSvcAid>:[CTAG];
```

Input Parameters

VidSvcAid Video Service Access Identifier. *VidSvcAid* is the AID [VidSvcRngAid](#). *VidSvcAid* must not be null.

Input Example

```
RTRV-VID-SVC:SYS2:1:34;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD
"<VidSvcAid>:[VIDVLANTAG=<VIDVLANTAG>,][DHCPLOCK=<DHCPLOCK>]""
;
```

Output Parameters

- VidSvcAid** Video Service Access Identifier. *VidSvcAid* is the AID [VidSvcAid](#).
- VIDVLANTAG** *VIDVLANTAG* is of type [VlanTag](#). *VIDVLANTAG* is optional.
- DHCLOCK** Enable or disable device mobility. When set to "Y", restrict mobility by allowing a DHCP host to obtain an IP address only once for a specific VLAN port. *DHCLOCK* is of type [BoolYN](#). *DHCLOCK* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"1::VIDVLANTAG=2,DHCLOCK=Y"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-VLAN

Name

RTRV-VLAN: Retrieve VLAN

Description

Category: IP **Security:** Memory Admin - read

This command retrieves attributes associated with the Virtual LAN.

Defined by Calix.

Related Messages:

[DLT-AGG](#)
[DLT-AGG-PORT](#)
[DLT-ETH-ACL](#)
[DLT-LSWITCH](#)
[DLT-PROF-ETH](#)
[DLT-VLAN-PORT](#)
[ED-ETH](#)
[ED-VLAN](#)

[DLT-AGG-ACL](#)
[DLT-ETH](#)
[DLT-GOS-ETH](#)
[DLT-LSWITCH-PORT](#)
[DLT-VLAN](#)
[DLT-VLAN-VBPORT](#)
[ED-GOS-ETH](#)
[ED-VLAN-PORT](#)

ED-VLAN-VBPORT	ENT-AGG
ENT-AGG-ACL	ENT-AGG-PORT
ENT-ETH	ENT-ETH-ACL
ENT-GOS-ETH	ENT-LSWITCH
ENT-LSWITCH-PORT	ENT-PROF-ETH
ENT-VLAN	ENT-VLAN-PORT
ENT-VLAN-VBPORT	INIT-LSWITCH
INIT-STAT-ETH	REPT ALM ETH
REPT EVT ETH	REPT RMV ETH
REPT RST ETH	RMV-ETH
RST-ETH	RTRV-AGG
RTRV-AGG-ACL	RTRV-AGG-PORT
RTRV-ALM-ETH	RTRV-COND-ETH
RTRV-ETH	RTRV-ETH-ACL
RTRV-GOS-ETH	RTRV-LSWITCH
RTRV-LSWITCH-PORT	RTRV-PM-ETH
RTRV-PROF-ETH	RTRV-STAT-ETH
RTRV-VLAN-PORT	RTRV-VLAN-VBPORT

Input Format

```
RTRV-VLAN:[TID]:<VlanAid>:[CTAG]:::[OPTION82=<OPTION82>, ]
[L2RLYMODE=<L2RLYMODE>] ;
```

Input Parameters

- VlanAid** *VlanAid* is the AID [VlanId1](#) and is listable and rangeable. *VlanAid* must not be null.
- OPTION82** *Not supported in release 6.0.* This can be supplied as an optional request filter. *OPTION82* is of type [Option82](#). A null value is equivalent to "ALL".
- L2RLYMODE** *Not supported in release 6.0.* This can be supplied as an optional request filter. *L2RLYMODE* is of type [DhcpL2RelayMode](#). A null value is equivalent to "ALL".

Input Example

```
RTRV-VLAN::N3-2-VB2-VLAN4:543:::OPTION82=NONE,L2RLYMODE=NONE;
```

Output Format

```
M SID DATE TIME
CTAG COMPLD
"<VlanAid>:::[APPMODE=<APPMODE>,][OPTION82=<OPTION82>,]
[L2RLYMODE=<L2RLYMODE>,][DESC=<DESC>]]"
;
```

Output Parameters

VlanAid	<i>VlanAid</i> is the AID VlanId .
APPMODE	<i>Not supported in release 6.0.</i> APPlication MODE. This is the forwarding mode of the VLAN. MAC DA lookup is performed within the VLAN context for Learning Bridge modes N:1 and TLS. <i>APPMODE</i> is of type AppMode . <i>APPMODE</i> is optional.
OPTION82	<i>Not supported in release 6.0.</i> The Option-82 type used by the L2 DHCP relay. <i>OPTION82</i> is of type Option82 . <i>OPTION82</i> is optional.
L2RLYMODE	<i>Not supported in release 6.0.</i> DHCP L2 Relay Mode. <i>L2RLYMODE</i> is of type DhcpL2RelayMode . <i>L2RLYMODE</i> is optional.
DESC	Description entered for the VLAN, up to 31 characters. Only applies to Packet Services VLAN. <i>DESC</i> is a String. <i>DESC</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-2-VB2-
VLAN4::APPMODE=VLAN_PER_PORT,OPTION82=NONE,L2RLYMODE=NONE,
DESC=\\"VLAN50\\\""
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-VLAN-PORT

Name

RTRV-VLAN-PORT: Retrieve VLAN PORT

Description

Category: IP **Security:** Memory Admin - read

This command retrieves attributes associated with the port on the Virtual LAN.

Defined by Calix.

Related Messages:

[DLT-AGG](#)
[DLT-AGG-PORT](#)
[DLT-ETH-ACL](#)

[DLT-AGG-ACL](#)
[DLT-ETH](#)
[DLT-GOS-ETH](#)

DLT-LSWITCH	DLT-LSWITCH-PORT
DLT-PROF-ETH	DLT-VLAN
DLT-VLAN-PORT	DLT-VLAN-VBPORT
ED-ETH	ED-GOS-ETH
ED-VLAN	ED-VLAN-PORT
ED-VLAN-VBPORT	ENT-AGG
ENT-AGG-ACL	ENT-AGG-PORT
ENT-ETH	ENT-ETH-ACL
ENT-GOS-ETH	ENT-LSWITCH
ENT-LSWITCH-PORT	ENT-PROF-ETH
ENT-VLAN	ENT-VLAN-PORT
ENT-VLAN-VBPORT	INIT-LSWITCH
INIT-STAT-ETH	REPT ALM ETH
REPT EVT ETH	REPT RMV ETH
REPT RST ETH	RMV-ETH
RST-ETH	RTRV-AGG
RTRV-AGG-ACL	RTRV-AGG-PORT
RTRV-ALM-ETH	RTRV-COND-ETH
RTRV-ETH	RTRV-ETH-ACL
RTRV-GOS-ETH	RTRV-LSWITCH
RTRV-LSWITCH-PORT	RTRV-PM-ETH
RTRV-PROF-ETH	RTRV-STAT-ETH
RTRV-VLAN	RTRV-VLAN-VBPORT

Input Format

```
RTRV-VLAN-PORT:[TID]:<VLanPortAid>:[CTAG];
```

Input Parameters

VLanPortAid VLAN port Access Identifier. *VLanPortAid* is the AID [VLanPortRngAid](#) and is listable and rangeable. *VLanPortAid* must not be null.

Input Example

```
RTRV-VLAN-PORT::N1-1-1-1-XLAN10-VLAN50:543;
```

Output Format

```

SID DATE TIME
M CTAG COMPLD
"<VLanPortAid>:[TRFPROF=<TRFPROF>]"
;
```

Output Parameters

VLanPortAid VLAN port Access Identifier. *VLanPortAid* is the AID [VLanPortAid](#).

TRFPROF Ethernet Traffic Profile. *TRFPROF* is the AID [EthProfAid](#). *TRFPROF* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-1-1-1-XLAN10-VLAN50::TRFPROF=6"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-VLAN-VBPORT

Name

RTRV-VLAN-VBPORT: Retrieve VLAN Virtual Bridge Port

Description

Category: IP **Security:** Memory Admin - read

Retrieve the port associated with a VLAN.

Related Messages:

DLT-AGG	DLT-AGG-ACL
DLT-AGG-PORT	DLT-CVIDREG
DLT-ETH	DLT-ETH-ACL
DLT-GOS-ETH	DLT-IGMP-JOIN
DLT-LSWITCH	DLT-LSWITCH-PORT
DLT-MACHOST	DLT-PROF-ETH
DLT-VB	DLT-VBPORT
DLT-VLAN	DLT-VLAN-PORT
DLT-VLAN-VBPORT	DLT-VR
DLT-VRPORT	ED-CVIDREG
ED-ETH	ED-GOS-ETH
ED-IGMP	ED-MACHOST
ED-VB	ED-VBPORT
ED-VLAN	ED-VLAN-PORT

ED-VLAN-VBPORT	ED-VR
ENT-AGG	ENT-AGG-ACL
ENT-AGG-PORT	ENT-CVIDREG
ENT-ETH	ENT-ETH-ACL
ENT-GOS-ETH	ENT-IGMP-JOIN
ENT-LSWITCH	ENT-LSWITCH-PORT
ENT-MACHOST	ENT-PROF-ETH
ENT-VB	ENT-VBPORT
ENT-VLAN	ENT-VLAN-PORT
ENT-VLAN-VBPORT	ENT-VR
ENT-VRPORT	INIT-LSWITCH
INIT-STAT-ETH	REPT ALM ETH
REPT ALM VB	REPT ALM VR
REPT EVT ETH	REPT EVT VB
REPT EVT VR	REPT RMV ETH
REPT RST ETH	RMV-ETH
RST-ETH	RTRV-AGG
RTRV-AGG-ACL	RTRV-AGG-PORT
RTRV-ALM-ETH	RTRV-ALM-VB
RTRV-ALM-VR	RTRV-COND-ETH
RTRV-CVIDREG	RTRV-ETH
RTRV-ETH-ACL	RTRV-GOS-ETH
RTRV-IGMP	RTRV-IGMP-JOIN
RTRV-LSWITCH	RTRV-LSWITCH-PORT
RTRV-MACHOST	RTRV-PM-ETH
RTRV-PROF-ETH	RTRV-STAT-ETH
RTRV-VB	RTRV-VBPORT
RTRV-VLAN	RTRV-VLAN-PORT
RTRV-VR	RTRV-VRPORT

Input Format

RTRV-VLAN-VBPORT : [TID] : <VbPortAid> : [CTAG] : : : [[VLAN=<VLAN> ,]
 [OPT82ACT=<OPT82ACT>]] ;

Input Parameters

- VbPortAid** *VbPortAid* is the AID [VirtualBridgePortId1](#) and is listable and rangeable. *VbPortAid* must not be null.
- VLAN** Packet Vlan address for optional request filtering. *VLAN* is the AID [PacketVlanAid](#). A null value defaults to "ALL".
- OPT82ACT** *Not supported in release 6.0.* This can be supplied as an optional request filter. *OPT82ACT* is of type [Option82Action](#). A null value defaults to "ALL".

Input Example

```
RTRV-VLAN-VBPORT::N1-1-VB1-4-1:543::VLAN=N1-1-VB1-
VLAN1,OPT82ACT=None;
```

Output Format

```
    SID DATE TIME
M  CTAG COMPLD
    "<VbPortAid>::[[VLAN=<VLAN>,][ARP=<ARP>],[DHCP=<DHCP>],
    [OPT82ACT=<OPT82ACT>],[IGMP=<IGMP>],[PPPOEAC=<PPPOEAC>],
    [PPPOESUB=<PPPOESUB>],[LSVID=<LSVID>],[PRIO=<PRIO>],[TAGGING=<TAGGING>]]
    ";
;
```

Output Parameters

- VbPortAid** *VbPortAid* is the AID [VirtualBridgePortId](#).
- VLAN** Packet Vlan address. *VLAN* is the AID [PacketVlanAid](#). *VLAN* is optional.
- ARP** Enable/Disable ARP *ARP* is of type [BoolYN](#). *ARP* is optional.
- DHCP** Enable/Disable DHCP *DHCP* is of type [BoolYN](#). *DHCP* is optional.
- OPT82ACT** *Not supported in release 6.0*. The action to take if a DHCP packet is received on a Client facing interface with Option82 sub-option 1 / 2 content. *OPT82ACT* is of type [Option82Action](#). *OPT82ACT* is optional.
- IGMP** IGMP TYPE: NONE SINK *IGMP* is of type [IgmpType](#). *IGMP* is optional.
- PPPOEAC** Enable/Disable PPPoE Access Concentrator. *PPPOEAC* is of type [BoolYN](#). *PPPOEAC* is optional.
- PPPOESUB** Enable/Disable PPPoE Subscriber *PPPOESUB* is of type [BoolYN](#). *PPPOESUB* is optional.
- LSVID** *Not supported in release 6.0*. *LSVID* is of type [VlanTag](#). *LSVID* is optional.
- PRIO** VLAN Port Priority. *PRIO* values are in the range 0-7. *PRIO* is a Integer. *PRIO* is optional.
- TAGGING** Tagging Properties of the VLAN port *TAGGING* is of type [Tagging](#). *TAGGING* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
    "N1-1-VB1-4-1::VLAN=N1-1-VB1-
VLAN1,ARP=Y,DHCP=Y,OPT82ACT=None,IGMP=None,
    PPPOEAC=N,PPPOESUB=N,LSVID=5,PRIO=2,TAGGING=DFLT"
    ;
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-VODCLNT

Name

RTRV-VODCLNT: Retrieve VOD Client

Description

Category: Video **Security:** Memory Admin - read

A VOD Client is a control device that acts on behalf of the content providers to initiate the request for bandwidth from the C7 network using the Calix Bandwidth Reservation Protocol. The VOD Client is created automatically when a session is initiated with the IRC.

Defined by Calix.

Related Messages:

DLT-DHCP-OUI	DLT-IP-IF
DLT-IP-ROUTE	DLT-IPIF-PORT
DLT-SUBIF-BINDING	DLT-VID-CHAN
DLT-VID-IRCLOC	DLT-VID-SUB
DLT-VID-SVC	DLT-VODCLNT
DLT-VODDSTLU	DLT-VODFLOW
DLT-VODSRCLU	DLT-VODSVR
ED-ARP	ED-IPIF-PORT
ED-VID-CHAN	ED-VID-SUB
ED-VID-SVC	ED-VODDSTLU
ENT-DHCP-OUI	ENT-IP-IF
ENT-IP-ROUTE	ENT-IPIF-PORT
ENT-SUBIF-BINDING	ENT-VID-CHAN
ENT-VID-IRCLOC	ENT-VID-SUB
ENT-VID-SVC	ENT-VODDSTLU
REPT EVT VODFLOW	RTRV-ARP
RTRV-DHCP-LEASE	RTRV-DHCP-OUI
RTRV-IP-IF	RTRV-IP-ROUTE
RTRV-IPIF-PORT	RTRV-SUBIF-BINDING
RTRV-VID-CHAN	RTRV-VID-IRCLOC
RTRV-VID-SUB	RTRV-VID-SVC
RTRV-VODDSTLU	RTRV-VODFLOW
RTRV-VODSRCLU	RTRV-VODSVR

Input Format

```
RTRV-VODCLNT:[TID]:<IpAid>:[CTAG]:::IRCAID=<IRCAID>;
```

Input Parameters

IpAid IP Address. The IP address of the VOD client. *IpAid* is the AID [IpRngAid](#) and is listable. *IpAid* must not be null.

IRCAID IRC AID. The address of the IRC. *IRCAID* is the AID [SlotLuAid](#). *IRCAID* must not be null.

Input Example

```
RTRV-VODCLNT:SYS1:192.168.10.2:123:::IRCAID=N1-2-3;;
```

Output Format

```
      SID DATE TIME
M  CTAG COMPLD
"<IpAid>::[ [ IRCAID=<IRCAID>, ] [ UDPPORT=<UDPPORT>, ] [ STATE=<STATE>, ]
           [ FLOWS=<FLOWS>, ] [ PFLOWS=<PFLOWS> ] ]"
;"
```

Output Parameters

IpAid IP Address. The IP address of the VOD client. *IpAid* is the AID [IpAid](#).

IRCAID IRC AID. The address of the IRC. *IRCAID* is the AID [SlotLuAid](#). *IRCAID* is optional.

UDPPORT UDP Port. The UDP port on which the IRC is communicating to the VOD Client. *UDPPORT* is of type [UdpPort](#). *UDPPORT* is optional.

STATE VOD Client State. Indicates the state of the VOD Client. *STATE* is of type [VodClntState](#). *STATE* is optional.

FLOWS Flows. The current number of VOD Flows owned by this VOD Client. *FLOWS* is a Integer. *FLOWS* is optional.

PFLOWS Peak Flows. The highest number of simultaneous flows since this VOD Client was added to the system. *PFLOWS* is a Integer. *PFLOWS* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"192.168.10.2::IRCAID=N1-2-
3,UDPPORT=1234,STATE=UP,FLOWS=10,PFLOWS=20"
;"
```

Errors

This message generates all of the [Default Errors](#).

RTRV-VODDSTLU

Name

RTRV-VODDSTLU: Retrieve VOD Destination Line Unit

Description

Category: Video **Security:** Memory Admin - read

A VOD Destination LU is the slot on which VOD flows targeting subscribers on this shelf have their flows terminate. If multiple VOD Destination LUs are present in a shelf, the IRC will use the first LU with an available VOD Internal Flow VC with enough bandwidth. If the VOD Destination LU is deleted, all flows that terminate on it will be torn down. The TRFPROF and FLOWLMT parameters act to create hidden "VOD Internal Flow VCs". If there is insufficient bandwidth to support the requested number of flows, then the operation will fail and no change will occur to the system.

Defined by Calix.

Related Messages:

[DLT-DHCP-OUI](#)

[DLT-IP-ROUTE](#)

[DLT-SUBIF-BINDING](#)

[DLT-VID-IRCLOC](#)

[DLT-VID-SVC](#)

[DLT-VODDSTLU](#)

[DLT-VODSRCLU](#)

[ED-ARP](#)

[ED-VID-CHAN](#)

[ED-VID-SVC](#)

[ENT-DHCP-OUI](#)

[ENT-IP-ROUTE](#)

[ENT-SUBIF-BINDING](#)

[ENT-VID-IRCLOC](#)

[ENT-VID-SVC](#)

[REPT EVT VODFLOW](#)

[RTRV-DHCP-LEASE](#)

[RTRV-IP-IF](#)

[RTRV-IPIF-PORT](#)

[DLT-IP-IF](#)

[DLT-IPIF-PORT](#)

[DLT-VID-CHAN](#)

[DLT-VID-SUB](#)

[DLT-VODCLNT](#)

[DLT-VODFLOW](#)

[DLT-VODSVR](#)

[ED-IPIF-PORT](#)

[ED-VID-SUB](#)

[ED-VODDSTLU](#)

[ENT-IP-IF](#)

[ENT-IPIF-PORT](#)

[ENT-VID-CHAN](#)

[ENT-VID-SUB](#)

[ENT-VODDSTLU](#)

[RTRV-ARP](#)

[RTRV-DHCP-OUI](#)

[RTRV-IP-ROUTE](#)

[RTRV-SUBIF-BINDING](#)

[RTRV-VID-CHAN](#)
[RTRV-VID-SUB](#)
[RTRV-VODCLNT](#)
[RTRV-VODSRCLU](#)

[RTRV-VID-IRCLOC](#)
[RTRV-VID-SVC](#)
[RTRV-VODFLOW](#)
[RTRV-VODSVR](#)

Input Format

```
RTRV-VODDSTLU:[TID]:<EqptAid>:[CTAG]:::IRCAID=<IRCAID>;
```

Input Parameters

EqptAid VOD Destination LU Access Identifier. The address of the VOD Destination Line Unit.
EqptAid is the AID [EquipmentId2](#) and is listable and rangeable. *EqptAid* must not be null.

IRCAID IRC AID. The address of the IRC. *IRCAID* is the AID [SlotLuAid](#). *IRCAID* must not be null.

Input Example

```
RTRV-VODDSTLU:SYS1:N1-2-3:123:::IRCAID=N1-2-3;;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD

"<EqptAid>::[[IRCAID=<IRCAID>,][FLOWLMT=<FLOWLMT>],[TRFPROF=<TRFPROF>,
[STATE=<STATE>],[FLOWS=<FLOWS>],[PFLOWS=<PFLOWS>]]"
;"
```

Output Parameters

EqptAid VOD Destination LU Access Identifier. The address of the VOD Destination Line Unit.
EqptAid is the AID [EquipmentId3](#).

IRCAID IRC AID. The address of the IRC. *IRCAID* is the AID [SlotLuAid](#). *IRCAID* is optional.

FLOWLMT Flow Limit. The upper bound on the number of VOD flows that can egress through this OLU. For each possible flow, a hidden "VOD Internal Flow VC" is created with source and destination on PP1 of this card. There must be sufficient bandwidth in the shelf to support the specified number of flows. *FLOWLMT* is a Integer. *FLOWLMT* is optional.

TRFPROF Traffic Profile. The traffic profile used to create hidden "VOD Internal Flow VCs". The Application Id of the specified traffic profile must be VIDSUBCHNL. *TRFPROF* is the AID [AtmTrfProfProvAid](#). *TRFPROF* is optional.

STATE VOD Destination LU State. Indicates the state of the VOD Destination LU. *STATE* is of type [VodDstLuState](#). *STATE* is optional.

FLOWS Flows. The current number of VOD Flows being served by this VOD Destination LU. *FLOWS* is a Integer. *FLOWS* is optional.

PFLOWS Peak Flows. The highest number of simultaneous flows since this VOD Destination LU was added to the system. *PFLOWS* is a Integer. *PFLOWS* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-2-3::IRCAID=N1-2-
3, FLOWLMT=20, TRFPROF=3, STATE=UP, FLOWS=10, PFLOWS=20"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-VODFLOW

Name

RTRV-VODFLOW: Retrieve VOD Flow

Description

Category: Video **Security:** Memory Admin - read

A VOD Flow is the combination of a VOD Source LU, VOD Destination LU, and a restricted uni-directional cross-connect between them (if they are on different shelves). The term Flow is used to differentiate that there may not be an actual cross-connect associated with this particular VOD content delivery. Rather, the term Flow was chosen for its usage to describe an IP packet communication between two specific endpoints.

Defined by Calix.

Related Messages:

DLT-DHCP-OUI	DLT-IP-IF
DLT-IP-ROUTE	DLT-IPIF-PORT
DLT-SUBIF-BINDING	DLT-VID-CHAN
DLT-VID-IRCLOC	DLT-VID-SUB
DLT-VID-SVC	DLT-VODCLNT
DLT-VODDSTLU	DLT-VODFLOW
DLT-VODSRCLU	DLT-VODSVR
ED-ARP	ED-IPIF-PORT
ED-VID-CHAN	ED-VID-SUB
ED-VID-SVC	ED-VODDSTLU
ENT-DHCP-OUI	ENT-IP-IF

[ENT-IP-ROUTE](#)
[ENT-SUBIF-BINDING](#)
[ENT-VID-IRCLOC](#)
[ENT-VID-SVC](#)
[REPT EVT VODFLOW](#)
[RTRV-DHCP-LEASE](#)
[RTRV-IP-IF](#)
[RTRV-IPIF-PORT](#)
[RTRV-VID-CHAN](#)
[RTRV-VID-SUB](#)
[RTRV-VODCLNT](#)
[RTRV-VODSRCLU](#)

[ENT-IPIF-PORT](#)
[ENT-VID-CHAN](#)
[ENT-VID-SUB](#)
[ENT-VODDSTLU](#)
[RTRV-ARP](#)
[RTRV-DHCP-OUI](#)
[RTRV-IP-ROUTE](#)
[RTRV-SUBIF-BINDING](#)
[RTRV-VID-IRCLOC](#)
[RTRV-VID-SVC](#)
[RTRV-VODDSTLU](#)
[RTRV-VODSVR](#)

Input Format

```
RTRV-VODFLOW: [ TID ] :<VodFlowId>:[ CTAG ] ::::IRCAID=<IRCAID>;
```

Input Parameters

VodFlowId VOD Flow Access Identifier. Number of the VOD flow. *VodFlowId* is the AID [VodFlowRngAid](#) and is listable and rangeable. *VodFlowId* must not be null.

IRCAID IRC AID. The address of the IRC. *IRCAID* is the AID [SlotLuAid](#). *IRCAID* must not be null.

Input Example

```
RTRV-VODFLOW::1:123::::IRCAID=N1-2-3;;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD

"<VodFlowId>:[ [ IRCAID=<IRCAID>, ][ SRCAID=<SRCAID>, ][ DSTAID=<DSTAID>, ]
[ SUBAID=<SUBAID>, ][ TRFPROF=<TRFPROF>, ][ CLNTIP=<CLNTIP>, ][ SVRIP=<SVRIP>, ]
[ SUBIP=<SUBIP>, ][ SUBUDPPORT=<SUBUDPPORT>, ][ REQBW=<REQBW>, ]
[ STATE=<STATE> ] ]"
;
```

Output Parameters

VodFlowId VOD Flow Access Identifier. Number of the VOD flow. *VodFlowId* is the AID [VodFlowAid](#).

IRCAID IRC AID. The address of the IRC. *IRCAID* is the AID [SlotLuAid](#). *IRCAID* is optional.

SRCAID Source Access Identifier. When the source and destination ports are on different shelves, this will be a fully resolved VC AID. When they are on the same shelf, this

will be the address of the port where the flow is entering the C7 network. *SRCAID* is the AID [VcId](#). *SRCAID* is optional.

DSTAID	Destination Access Identifier. When the source and destination ports are on different shelves, this will be a fully resolved VC AID. When they are on the same shelf, this will be the address of the port where the flow is leaving the C7 network. <i>DSTAID</i> is the AID VcId . <i>DSTAID</i> is optional.
SUBAID	Subscriber AID. This identifies the AID of the subscriber end of the Video Subscriber Channel VC (Application Id of VIDSUBCHNL) endpoint. This corresponds to the subscriber set-top box to which the VOD Flow is being delivered. <i>SUBAID</i> is the AID VcId . <i>SUBAID</i> is optional.
TRFPROF	Traffic Profile. The traffic profile used to create the ATM VC. This will only be present when the source and destination ports of the flow are on different shelves. When the flow is being created, the IRC will select the next largest profile compared to the rate specified in the bandwidth request from the VOD Client. Also note that the IRC will add necessary ATM overhead as the VOD Client is assumed to make requests based on the Ethernet rate. <i>TRFPROF</i> is the AID AtmTrfProfProvAid . <i>TRFPROF</i> is optional.
CLNTIP	VOD Client IP Address. The IP address of the VOD Client that requested the flow. <i>CLNTIP</i> is the AID IpAid . <i>CLNTIP</i> is optional.
SVRIP	VOD Server IP Address. The IP address of the VOD Server that is sourcing the flow. <i>SVRIP</i> is the AID IpAid . <i>SVRIP</i> is optional.
SUBIP	Subscriber IP Address. The IP address of the requesting subscriber. <i>SUBIP</i> is the AID IpAid . <i>SUBIP</i> is optional.
SUBUDPPORT	Subscriber UDP Port. The UDP Port number of the requesting subscriber. <i>SUBUDPPORT</i> is of type UdpPort . <i>SUBUDPPORT</i> is optional.
REQBW	Requested Bandwidth. Bandwidth used by the VOD flow in kbps. This bandwidth is the bandwidth requested by the VOD server which is always less than or equal to the bandwidth of the traffic profile. The IRC selects the best-fit traffic profile to create the underlying cross-connect. <i>REQBW</i> is a Integer. <i>REQBW</i> is optional.
STATE	VOD Flow State. The state of the VOD flow. <i>STATE</i> is of type VodFlowState . <i>STATE</i> is optional.

Output Example

```

TID-000 98-06-20 14-30-00
M 001 COMPLD
"1::IRCAID=N1-2-3,SRCAID=N2-3-4-PP1-VP4094-VC100,
 DSTAID=N3-4-5-PP2-VP4094-VC100,SUBAID=N3-4-5-2-CH0-VP0-
VC32,TRFPROF=5,
 CLNTIP=192.168.10.2,SVRIP=192.168.10.2,SUBIP=192.168.10.2,
 SUBUDPPORT=1024,REQBW=400,STATE=UP"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-VODSRCLU

Name

RTRV-VODSRCLU: Retrieve VOD Source Line Unit

Description

Category: Video **Security:** Memory Admin - read

A VOD Source Line Unit is the optical line unit whose external interface is closest to one or more VOD servers. It is the source LU for all VOD Flows originating at one of the VOD servers closes to this LU (in a routing protocol sense). It is created automatically by the IRC when an active VOD server is connected to it.

Defined by Calix.

Related Messages:

DLT-DHCP-OUI	DLT-IP-IF
DLT-IP-ROUTE	DLT-IPIF-PORT
DLT-SUBIF-BINDING	DLT-VID-CHAN
DLT-VID-IRCLOC	DLT-VID-SUB
DLT-VID-SVC	DLT-VODCLNT
DLT-VODDSTLU	DLT-VODFLOW
DLT-VODSRCLU	DLT-VODSVR
ED-ARP	ED-IPIF-PORT
ED-VID-CHAN	ED-VID-SUB
ED-VID-SVC	ED-VODDSTLU
ENT-DHCP-OUI	ENT-IP-IF
ENT-IP-ROUTE	ENT-IPIF-PORT
ENT-SUBIF-BINDING	ENT-VID-CHAN
ENT-VID-IRCLOC	ENT-VID-SUB
ENT-VID-SVC	ENT-VODDSTLU
REPT EVT VODFLOW	RTRV-ARP
RTRV-DHCP-LEASE	RTRV-DHCP-OUI
RTRV-IP-IF	RTRV-IP-ROUTE
RTRV-IPIF-PORT	RTRV-SUBIF-BINDING
RTRV-VID-CHAN	RTRV-VID-IRCLOC
RTRV-VID-SUB	RTRV-VID-SVC
RTRV-VODCLNT	RTRV-VODDSTLU
RTRV-VODFLOW	RTRV-VODSVR

Input Format

```
RTRV-VODSRCLU:[TID]:<EqptAid>:[CTAG]:::IRCAID=<IRCAID>;
```

Input Parameters

EqptAid VOD Source LU Access Identifier. The address of the VOD Source Line Unit. *EqptAid* is the AID [VodsrcluId1](#) and is listable and rangeable. *EqptAid* must not be null.

IRCAID IRC AID. The address of the IRC. *IRCAID* is the AID [SlotLuAid](#). *IRCAID* must not be null.

Input Example

```
RTRV-VODSRCLU:SYS1:N1-2-3:123:::IRCAID=N1-2-3;;
```

Output Format

```
    SID DATE TIME
M    CTAG COMPLD
    "<EqptAid>::[ [ IRCAID=<IRCAID>, ][ STATE=<STATE>, ][ SVRS=<SVRS>, ]
      [ PSVRS=<PSVRS>, ][ FLOWS=<FLOWS>, ][ PFLOWS=<PFLOWS> ] ]"
;
```

Output Parameters

EqptAid VOD Source LU Access Identifier. The address of the VOD Source Line Unit. *EqptAid* is the AID [VodsrcluId1](#).

IRCAID IRC AID. The address of the IRC. *IRCAID* is the AID [SlotLuAid](#). *IRCAID* is optional.

STATE VOD Source LU State. Indicates the state of the VOD Source LU. *STATE* is of type [VodSrcLuState](#). *STATE* is optional.

SVRS Servers. Number of VOD servers using this VOD Source LU. *SVRS* is a Integer. *SVRS* is optional.

PSVRS Peak Servers. The highest number of simultaneous servers since this VOD Source LU was added to the system. *PSVRS* is a Integer. *PSVRS* is optional.

FLOWS Flows. The current number of VOD flows being sourced by this VOD Source LU. *FLOWS* is a Integer. *FLOWS* is optional.

PFLOWS Peak Flows. The highest number of simultaneous flows since this VOD Source LU was added to the system. *PFLOWS* is a Integer. *PFLOWS* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "N1-2-3:::IRCAID=N1-2-
3,STATE=UP,SVRS=10,PSVRS=20,FLOWS=30,PFLOWS=50"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-VODSVR

Name

RTRV-VODSVR: Retrieve VOD Server

Description

Category: Video **Security:** Memory Admin - read

A VOD Server is a PC or Workstation that sources VOD content to the STBs. The VOD Server is created automatically in response to the first session that requests the server as the VOD source. Note that normally the VOD Server also acts as the VOD Client, in which case the VOD Server will exist as long as it is connected to the IRC via the VODSVR VCs. However, other architectures (Myrio) result in a separation of the VOD Client (STB) and VOD Server, in which case VOD Servers will come and go depending on whether it is sourcing any flows.

Defined by Calix.

Related Messages:

[DLT-DHCP-OUI](#)

[DLT-IP-ROUTE](#)

[DLT-SUBIF-BINDING](#)

[DLT-VID-IRCLOC](#)

[DLT-VID-SVC](#)

[DLT-VODDSTLU](#)

[DLT-VODSRCLU](#)

[ED-ARP](#)

[ED-VID-CHAN](#)

[ED-VID-SVC](#)

[ENT-DHCP-OUI](#)

[ENT-IP-ROUTE](#)

[ENT-SUBIF-BINDING](#)

[ENT-VID-IRCLOC](#)

[ENT-VID-SVC](#)

[REPT EVT VODFLOW](#)

[RTRV-DHCP-LEASE](#)

[RTRV-IP-IF](#)

[RTRV-IPIF-PORT](#)

[DLT-IP-IF](#)

[DLT-IPIF-PORT](#)

[DLT-VID-CHAN](#)

[DLT-VID-SUB](#)

[DLT-VODCLNT](#)

[DLT-VODFLOW](#)

[DLT-VODSVR](#)

[ED-IPIF-PORT](#)

[ED-VID-SUB](#)

[ED-VODDSTLU](#)

[ENT-IP-IF](#)

[ENT-IPIF-PORT](#)

[ENT-VID-CHAN](#)

[ENT-VID-SUB](#)

[ENT-VODDSTLU](#)

[RTRV-ARP](#)

[RTRV-DHCP-OUI](#)

[RTRV-IP-ROUTE](#)

[RTRV-SUBIF-BINDING](#)

[RTRV-VID-CHAN](#)
[RTRV-VID-SUB](#)
[RTRV-VODCLNT](#)
[RTRV-VODFLOW](#)

[RTRV-VID-IRCLOC](#)
[RTRV-VID-SVC](#)
[RTRV-VODDSTLU](#)
[RTRV-VODSRCLU](#)

Input Format

```
RTRV-VODSVR:[TID]:<IpAid>:[CTAG]:::IRCAID=<IRCAID>;
```

Input Parameters

IpAid IP Address. The IP address of the VOD server. *IpAid* is the AID [IpRngAid](#) and is listable. *IpAid* must not be null.

IRCAID IRC AID. The address of the IRC. *IRCAID* is the AID [SlotLuAid](#). *IRCAID* must not be null.

Input Example

```
RTRV-VODSVR:SYS1:192.168.10.2:123:::IRCAID=N1-2-3;;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<IpAid>::[ [ IRCAID=<IRCAID>, ][ VODSRCLU=<VODSRCLU>, ][ FLOWS=<FLOWS>, ]
[ PFLOWS=<PFLOWS> ] ]"
;"
```

Output Parameters

IpAid IP Address. The IP address of the VOD server. *IpAid* is the AID [IpAid](#).

IRCAID IRC AID. The address of the IRC. *IRCAID* is the AID [SlotLuAid](#). *IRCAID* is optional.

VODSRCLU VOD Source LU. The AID of the VOD Source LU. *VODSRCLU* is the AID [EquipmentId3](#). *VODSRCLU* is optional.

FLOWS Flows. The current number of VOD flows being sourced by this VOD Server. *FLOWS* is a Integer. *FLOWS* is optional.

PFLOWS Peak Flows. The highest number of simultaneous flows since this VOD Server was added to the system. *PFLOWS* is a Integer. *PFLOWS* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"192.168.10.2::IRCAID=N1-2-3,VODSRCLU=N2-3-
4,FLOWS=10,PFLOWS=20"
;"
```

Errors

This message generates all of the [Default Errors](#).

RTRV-VR

Name

RTRV-VR: Retrieve VR

Description

Category: IP **Security:** Memory Admin - read

Retrieve Virtual Router.

Related Messages:

[DLT-CVIDREG](#)

[DLT-MACHOST](#)

[DLT-VBPORT](#)

[DLT-VR](#)

[ED-CVIDREG](#)

[ED-MACHOST](#)

[ED-VBPORT](#)

[ED-VR](#)

[ENT-IGMP-JOIN](#)

[ENT-VB](#)

[ENT-VLAN-VBPORT](#)

[ENT-VRPORT](#)

[REPT ALM VR](#)

[REPT EVT VR](#)

[RTRV-ALM-VR](#)

[RTRV-IGMP](#)

[RTRV-MACHOST](#)

[RTRV-VBPORT](#)

[RTRV-VRPORT](#)

[DLT-IGMP-JOIN](#)

[DLT-VB](#)

[DLT-VLAN-VBPORT](#)

[DLT-VRPORT](#)

[ED-IGMP](#)

[ED-VB](#)

[ED-VLAN-VBPORT](#)

[ENT-CVIDREG](#)

[ENT-MACHOST](#)

[ENT-VBPORT](#)

[ENT-VR](#)

[REPT ALM VB](#)

[REPT EVT VB](#)

[RTRV-ALM-VB](#)

[RTRV-CVIDREG](#)

[RTRV-IGMP-JOIN](#)

[RTRV-VB](#)

[RTRV-VLAN-VBPORT](#)

Input Format

RTRV-VR : [TID] : <VrAid> : [CTAG] ;
--

Input Parameters

VrAid Virtual Router Access Identifier. *VrAid* is the AID [VrRngAid](#) and is listable and rangeable.
VrAid must not be null.

Input Example

```
RTRV-VR::N1-1-VR1:543;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<VrAid>::[ DHCPLOCK=<DHCPLOCK> ]"
;
```

Output Parameters

VrAid *VrAid* is the AID [VrAid](#).

DHCPLOCK Enable or disable device mobility. When set to "Y", restrict mobility by allowing a DHCP host to obtain an IP address only once for a specific VR. *DHCPLOCK* is of type [BoolYN](#). *DHCPLOCK* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N1-1-VR1::DHCPLOCK=Y"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-VRP

Name

RTRV-VRP: Retrieve Video Return Path capability of an ONT

Description

Category: PON**Security:** Memory Admin - read

Retrieve Video Return Path. This command returns the provisioned video returned path record.

Related Messages:

[DLT-AVO](#)[DLT-IG-VDS1](#)[DLT-PROF-ONT](#)[DLT-VCG](#)[ED-AVO](#)[ED-ONT](#)[ED-RFVID](#)[ED-VRP](#)[ENT-GOS-ONT](#)[ENT-ONT](#)[ENT-RFVID](#)[ENT-VRP](#)[INIT-REG-ONT](#)[REPT ALM ONT](#)[REPT ALM VCG](#)[REPT EVT ONT](#)[REPT RMV ONT](#)[REPT RST AVO](#)[REPT RST RFVID](#)[RMV-ONT](#)[RST-AVO](#)[RST-RFVID](#)[RTRV-ALM-ONT](#)[RTRV-ALM-VCG](#)[RTRV-AVO](#)[RTRV-COND-VCG](#)[RTRV-GOS-ONT](#)[RTRV-ONT](#)[RTRV-PM-ONT](#)[RTRV-RFVID](#)[RTRV-STAT-RFR](#)[RTRV-VDS1](#)[DLT-GOS-ONT](#)[DLT-ONT](#)[DLT-RFVID](#)[DLT-VRP](#)[ED-GOS-ONT](#)[ED-PROF-ONT](#)[ED-VCG](#)[ENT-AVO](#)[ENT-IG-VDS1](#)[ENT-PROF-ONT](#)[ENT-VCG](#)[INIT-ONT-UA](#)[REPT ALM AVO](#)[REPT ALM RFVID](#)[REPT ALM VRP](#)[REPT RMV AVO](#)[REPT RMV RFVID](#)[REPT RST ONT](#)[RMV-AVO](#)[RMV-RFVID](#)[RST-ONT](#)[RTRV-ALM-AVO](#)[RTRV-ALM-RFVID](#)[RTRV-ALM-VRP](#)[RTRV-COND-ONT](#)[RTRV-COND-VRP](#)[RTRV-IG-VDS1](#)[RTRV-ONT-UA](#)[RTRV-PROF-ONT](#)[RTRV-STAT-HPNA](#)[RTRV-VCG](#)[TST-ONT-MET](#)

Input Format

```
RTRV-VRP:[TID]:<VrpAid>:[CTAG];
```

Input Parameters

VrpAid Video Return Path Access Identifier. *VrpAid* is the AID [VrpNtwkRngAid](#) and is listable and rangeable. *VrpAid* must not be null.

Input Example

```
RTRV-VRP:SYS:N2-3-12-1-22-VRP:567;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
  "<VrpAid>:: [ [ MODE=<MODE>, ] [ RATE=<RATE>, ] [ LOFREQ=<LOFREQ>, ]
  [ HIFREQ=<HIFREQ>, ] [ FREQ=<FREQ>, ] [ DQPSK=<DQPSK>, ] [ RAND=<RAND>, ]
  [ DESC=<DESC> ] ] : [ <PST> , <SST> ] "
;
```

Output Parameters

- VrpAid** Video Return Path Access Identifier *VrpAid* is the AID [VrpAid](#).
- MODE** RF Return Path Mode - Control the Mode of the RF-Return being utilized by the ONT. *MODE* is of type [RFReturnMode](#). *MODE* is optional.
- RATE** SCTE 55-2 Data Rate - When MODE equals SCTE 55-2, this parameter controls the upstream rate for the RF-Return signal in kbit/sec. *RATE* is of type [VrpDataRate](#). *RATE* is optional.
- LOFREQ** Lower Frequency Limit - Set the RF-Return lower tuning range in kHz. When MODE=SCTE55-1, Lower Frequency limit is between 8096 and 40160 in step sizes of 192 kHz with default set to 8096. When MODE=SCTE55-2 and RATE=256kbps, Lower Frequency limit is between 8000 and 26500 in steps of 256 kHz with default set to 8000. When MODE=SCTE55-2 and RATE=1544kbps, Lower Frequency limit is between 8000 and 26500 in steps of 1000 kHz. When MODE=SCTE55-2 and RATE=3088 kbps Lower Frequency limit is between 8000 and 26500 in steps of 2000 kHz. *LOFREQ* is a Integer. *LOFREQ* is optional.
- HIFREQ** Upper Frequency Limit - Set the RF-Return upper tuning range in kHz. MODE RATE Value Range Default----- When MODE=SCTE551, Upper Frequency Limit is between 8096-40160 in step sizes of 192 kHz with default set to 40160. When MODE=SCTE55-2 and RATE=256kbps, Upper Frequency Limit is between 8000 - 26500 in steps of 256 kHz with default set to 26500 . When MODE=SCTE55-2 and RATE=1544kbps, Upper Frequency Limit is between 8000 - 26500 in steps of 1000 kHz. When MODE=SCTE55-2 and RATE=3088kbps, Upper Frequency Limit is between 8000-26500 in steps of 2000 kHz. *HIFREQ* is a Integer. *HIFREQ* is optional.
- FREQ** When MODE = SCTE55-1, frequency is 8096 to 40160 in step sizes of 192 kHz. When MODE = SCTE55-2 and RATE =256 kbps, frequency is 8000 to 26500 in steps of 256 kHz. When MODE = SCTE55-2 and RATE =1544 kbps, frequency is 8000 to 26500 in steps of 1000 kHz. When MODE = SCTE55-2 and RATE =3088 kbps, frequency is 8000 to 26500 in steps of 2000 kHz. *FREQ* is a Integer. *FREQ* is optional.
- DQPSK** SCTE55-1 DQSK Mode - When MODE equals CTE55-1, set the DQPSK mode to Default or Alternate Operation. Default value is DFLT. *DQPSK* is of type [DQPSKMode](#). *DQPSK* is optional.

RAND	SCTE55-1 Randomizer Pre-Load - When MODE equals SCTE55-1, set the eight bits of the Randomizer pre-Load. Value range is from 00 to FF in hex. Default value is FF. RAND is a String. <i>RAND</i> is a String. <i>RAND</i> is optional.
DESC	DESCription. A user-settable description field, up to 31 characters. <i>DESC</i> is a String. <i>DESC</i> is optional.
PST	Primary Service State of the VRP - Default value is IS. <i>PST</i> is of type PrimaryStateChg . <i>PST</i> is optional.
SST	Secondary Service State of the VRP. SB is the only allowed provisioned secondary state and only allowed when PST is set to OOS. <i>SST</i> is of type SecondaryStateChg and is listable. <i>SST</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N2-3-12-1-22-VRP::MODE=SCTE55-
2,RATE=1544,LOFREQ=8000,HIFREQ=26500,
    FREQ=8500,DQPSK=DFLT,RAND=0XFF,DESC="DESCRIPTION":OOS,SB"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-VRPORT

Name

RTRV-VRPORT: Retrieve Virtual Router Port

Description

Category: IP **Security:** Memory Admin - read

Retrieve Virtual Router Port.

Related Messages:

[DLT-CVIDREG](#)
[DLT-MACHOST](#)
[DLT-VBPORT](#)
[DLT-VR](#)
[ED-CVIDREG](#)
[ED-MACHOST](#)

[DLT-IGMP-JOIN](#)
[DLT-VB](#)
[DLT-VLAN-VBPORT](#)
[DLT-VRPORT](#)
[ED-IGMP](#)
[ED-VB](#)

[ED-VBPORT](#)
[ED-VR](#)
[ENT-IGMP-JOIN](#)
[ENT-VB](#)
[ENT-VLAN-VBPORT](#)
[ENT-VRPORT](#)
[REPT ALM VR](#)
[REPT EVT VR](#)
[RTRV-ALM-VR](#)
[RTRV-IGMP](#)
[RTRV-MACHOST](#)
[RTRV-VBPORT](#)
[RTRV-VR](#)

[ED-VLAN-VBPORT](#)
[ENT-CVIDREG](#)
[ENT-MACHOST](#)
[ENT-VBPORT](#)
[ENT-VR](#)
[REPT ALM VB](#)
[REPT EVT VB](#)
[RTRV-ALM-VB](#)
[RTRV-CVIDREG](#)
[RTRV-IGMP-JOIN](#)
[RTRV-VB](#)
[RTRV-VLAN-VBPORT](#)

Input Format

```
RTRV-VRPORT:[TID]:<VrPortAid>:[CTAG];
```

Input Parameters

VrPortAid Virtual Router Port Access Identifier. *VrPortAid* is the AID [VirtualRouterPortId1](#) and is listable and rangeable. *VrPortAid* must not be null.

Input Example

```
RTRV-VRPORT:SYS:N1-1-VR1-1:1234;
```

Output Format

```
 SID DATE TIME
M CTAG COMPLD
  "<VrPortAid>"
;
```

Output Parameters

VrPortAid *VrPortAid* is the AID [VrEpIdxAid](#).

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "N1-1-VR1-1"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-VSP

Name

RTRV-VSP: Retrieve Voice Signal Processor

Description

Category: TDM Services **Security:** Memory Admin - read

Retrieve the VSP port on a VIPR card. .

Related Messages:

[DLT-H248](#)

[DLT-IG-VSP](#)

[DLT-VSP](#)

[ED-H248](#)

[ED-VSP](#)

[ENT-H248](#)

[ENT-IG-VSP](#)

[ENT-VSP](#)

[REPT ALM H248](#)

[RTRV-ALM-H248](#)

[RTRV-COND-H248](#)

[RTRV-H248](#)

[RTRV-IG-VSP](#)

Input Format

```
RTRV-VSP:[TID]:<VspAid>:[CTAG];
```

Input Parameters

VspAid Access Identifier of the VSP port. *VspAid* is the AID [VspPortNtwkRngAid](#). *VspAid* must not be null.

Input Example

```
RTRV-VSP:SYS:N3-2-7-1:1236;
```

Output Format

SID	DATE	TIME
M	CTAG	COMPLD

```
"<VspAid>:[ [ IP=<IP>, ] [ UDPSTART=<UDPSTART>, ] [ MACADDR=<MACADDR>, ]
[ IGVSP=<IGVSP> ] ]:[ <PST> ], [ <SST> ]"
;
```

Output Parameters

VspAid	Access Identifier of the VSP port. <i>VspAid</i> is the AID VspPortAid .
IP	IP Address for Bearer traffic handled by VSP. <i>IP</i> is the AID IpAid . <i>IP</i> is optional.
UDPSTART	Starting UDP port number for bearer traffic transport handled by VSP. <i>UDPSTART</i> is a Integer. <i>UDPSTART</i> is optional.
MACADDR	MAC address of the VSP. <i>MACADDR</i> is the AID MacAid . <i>MACADDR</i> is optional.
IGVSP	The address of the VSP Line Termination in a H.248 interface group. <i>IGVSP</i> is the AID IgVspAid and is listable. <i>IGVSP</i> is optional.
PST	Primary Service State. This parameter specifies the overall service condition. <i>PST</i> is of type PrimaryState . <i>PST</i> is optional.
SST	Secondary Service State. This parameter provides additional state information that is relevant. <i>SST</i> is of type SecondaryState and is listable. <i>SST</i> is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-2-7-1::IP=209.204.165.202,UDPSTART=70512,MACADDR=AA-BB-
CC-DD-EE-FF,
IGVSP=N3-2-IG1-1:OOS-AUMA,UEQ; "
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-VTI

Name

RTRV-VTI: Retrieve Virtual Transport Interface

Description

Category: Virtual Facility **Security:** Memory Admin - read

This command retrieves attributes associated with a Virtual Transport Interface (VTI). A VTI serves as a generic, logical endpoint to terminate Sonet cross-connects at the shelf level. It is then used by higher-

layered services, such as Ethernet, to map to an underlying Sonet transport layer.

Defined by Calix.

Related Messages:

[ACT-PROTN-VC](#)
[DLT-CRS-VC](#)
[DLT-PP](#)
[ED-CRS-VC](#)
[ED-PROF-TRF](#)
[ENT-CRS-VP](#)
[ENT-PROF-TRF](#)
[INIT-CSTAT-VP](#)
[INJ-LPBK-VP](#)
[MV-CRS-VP](#)
[OPR-CC-VP](#)
[REPT EVT PP](#)
[REPT EVT VP](#)
[REPT RST PP](#)
[RLS-CC-VP](#)
[RST-PP](#)
[RTRV-COND-PP](#)
[RTRV-CRS-VP](#)
[RTRV-CSTAT-VP](#)
[RTRV-PROF-TRF](#)

[ACT-PROTN-VP](#)
[DLT-CRS-VP](#)
[DLT-PROF-TRF](#)
[ED-CRS-VP](#)
[ENT-CRS-VC](#)
[ENT-PP](#)
[INIT-CSTAT-VC](#)
[INJ-LPBK-VC](#)
[MV-CRS-VC](#)
[OPR-CC-VC](#)
[REPT ALM PP](#)
[REPT EVT VC](#)
[REPT RMV PP](#)
[RLS-CC-VC](#)
[RMV-PP](#)
[RTRV-ALM-PP](#)
[RTRV-CRS-VC](#)
[RTRV-CSTAT-VC](#)
[RTRV-PP](#)

Input Format

```
RTRV-VTI:[TID]:<VtiAid>:[CTAG];
```

Input Parameters

VtiAid VTI Access Identifier *VtiAid* is the AID [VtiRngAid](#) and is listable and rangeable. *VtiAid* must not be null.

Input Example

```
RTRV-VTI:SYS3:N2-3-VTI4:123;
```

Output Format

```
SID DATE TIME  
M CTAG COMPLD  
" <VtiAid> :: [ OWNER=<OWNER> ] "  
;
```

Output Parameters

VtiAid VTI Access Identifier *VtiAid* is the AID [VtiAid](#).

OWNER Owner of the VTI. This indicates what service has been mapped to use this Virtual Transport Interface. Currently the only service that can make use of a VTI is an LSwitch port for carrying Ethernet service over a Sonet transport layer. *OWNER* is the AID [LSwitchPortAid](#). *OWNER* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
  "N2-3-VTI4::OWNER=N2-3-XLAN1-1"
;
```

Errors

This message generates all of the [Default Errors](#).

RTRV-XLAN

Name

RTRV-XLAN: RTRV XLAN

Description

Category: Ethernet **Security:** Memory Admin - read

This command retrieves attributes associated with the Extended LAN.

Defined by Calix.

Input Format

```
RTRV-XLAN: [TID]:<XLanAid>:[CTAG];
```

Input Parameters

XLanAid Extended LAN Access Identifier. *XLanAid* is the AID [XLanRngAid](#) and is listable and rangeable. *XLanAid* must not be null.

Input Example

```
RTRV-XLAN:SYS1:XLAN10:345;
```

Output Format

```
  SID DATE TIME
M  CTAG COMPLD
"<XLanAid>::[[ XLANNAME=<XLANNAME>, ] [ XLANBW=<XLANBW>, ] [ TOPO=<TOPO> ] ]"
;"
```

Output Parameters

- XLanAid** Extended LAN Access Identifier. *XLanAid* is the AID [XLanAid](#).
- XLANNAME** Extended LAN NAME. *XLANNAME* is a String. *XLANNAME* is optional.
- XLANBW** EXtended LAN BandWidth. *XLANBW* is of type [XlanBw](#). *XLANBW* is optional.
- TOPO** Indicates the topology of the Extended LAN. Note the system makes no effort to ensure the specified topology matches the actual XLAN configuration; it is provided for user convenience only. *TOPO* is of type [EthTopo](#). *TOPO* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"XLAN10::XLANNAME=NOVATO,XLANBW=4,TOPO=LINEAR"
;"
```

Errors

This message generates all of the [Default Errors](#).

SET-ACO

Name

SET-ACO: Set Alarm Cutoff

Description

Category: Fault **Security:** Maintenance - full

Instructs an C7 to set the attributes associated with an alarm cutoff.

Defined in GR-833.

Related Messages:

[ALW-MSG-ALL](#)
[OPR-ACO](#)
[RTRV-ALM-ALL](#)

[INH-MSG-ALL](#)
[RTRV-ACO](#)
[RTRV-COND-ACO](#)

Input Format

```
SET-ACO:[TID]:<NodeAid>:[CTAG]::<ACOMODE>;
```

Input Parameters

NodeAid Alarm Cutoff Access Identifier. The address of the alarm cutoff being set. *NodeAid* is the AID [NodeAid](#).

ACOMODE Alarm Cutoff Mode. This parameter indicates the mode of alarm cutoff operation. *ACOMODE* is of type [AlarmCutoffMode](#).

Input Example

```
SET-ACO:SYS1:N3:555::DELD;
```

Errors

This message generates all of the [Default Errors](#).

SET-ATTR-CONT

Name

SET-ATTR-CONT: Set Attribute Control

Description

Category: Environment

Security: Maintenance - full

Instructs an C7 to set the attributes associated with an external control. These attributes are used when operating or releasing an external control.

Defined in GR-833.

Related Messages:

OPR-EXT-CONT	REPT ALM ENV
REPT EVT CONT	RLS-EXT-CONT
RTRV-ALM-ENV	RTRV-ATTR-CONT
RTRV-ATTR-ENV	RTRV-COND-ENV
RTRV-EXT-CONT	SET-ATTR-ENV

Input Format

```
SET-ATTR-CONT:[TID]:<ExtContAid>:[CTAG]::[<CONNTYPE>],[<POL>];
```

Input Parameters

ExtContAid External Control Access Identifier. The address of the external control for which attributes are being set. *ExtContAid* is the AID [ExtControlAid](#).

CONNTYPE Condition Type. The parameter indicates which condition type should be associated with the external control. If parameter is not entered, then value does not change from current values. *CONNTYPE* is of type [ContType](#).

POL Polarity. This parameter indicates whether the OPR-EXT-CONT command closes the control or opens it. If parameter is not entered, then value is not changed. The initial value is OPRISCLOSED. *POL* is of type [ContPolarity](#).

Input Example

```
SET-ATTR-CONT:SYS1:N3-EXT2:555::FAN,OPRISOPEN;
```

Errors

This message generates all of the [Default Errors](#).

SET-ATTR-ENV

Name

SET-ATTR-ENV: Set Attribute Environment

Description

Category: Environment **Security:** Maintenance - full

Instructs an C7 to set the attributes associated with an environmental input contacts. These attributes are used when a condition exist within the system.

Defined in GR-833.

Related Messages:

[OPR-EXT-CONT](#)
[REPT EVT CONT](#)
[RTRV-ALM-ENV](#)
[RTRV-ATTR-ENV](#)
[RTRV-EXT-CONT](#)

[REPT ALM ENV](#)
[RLS-EXT-CONT](#)
[RTRV-ATTR-CONT](#)
[RTRV-COND-ENV](#)
[SET-ATTR-CONT](#)

Input Format

```
SET-ATTR-
ENV:[TID]:<EnvAid>:[CTAG]::[<NTFCNCDE>],[<ALMTYPE>],[<ALMMSG>],
[<POL>];
```

Input Parameters

- EnvAid** Environmental Access Identifier. The address of the environmental input contact. *EnvAid* is the AID [EnvAid](#).
- NTFCNCDE** Notification Code. This parameter indicate the notification code which should be used when the specified condition is raised. If parameter is not entered, then value does not change from current values. *NTFCNCDE* is of type [NotificationRtrv](#).
- ALMTYPE** Alarm Type. This parameter indicate the type of the alarm which should be generated when the status points are not normal. If parameter is not entered, then value does not change from current values. *ALMTYPE* is of type [CondTypeEnvAlm](#).
- ALMMSG** Alarm Message. This parameter identifies the textual string whcih will be included in any notification messages for this environmental input contact. If parameter is not entered, then value does not change from current values. Note: This value is limited to 11 characters and output will be truncated to this length. *ALMMSG* is a String.
- POL** Polarity. This parameter indicates if the status points are normally open or normally closed. *POL* is of type [EnvPolarity](#).

Input Example

```
SET-ATTR-ENV:SYS3:N3-ENV6:555::CR,ENGINE,"ENGINE
STARTED",NORMOPEN;
```

Errors

This message generates all of the [Default Errors](#).

SW-DX-EQPT

Name

SW-DX-EQPT: Switch Duplex Equipment

Description

Category: Protection Switching

Security: Maintenance - full

Instructs an C7 to switch the working equipment unit with the standby unit within non-revertive 1:1 protection equipment scheme.

Note if the RAP contains integrated optics, e.g. RAP-OC3/12, the protection switch will only switch the control services on the board to the standby board. To switch the optical transport services the OPR-PROTNSW-OCx (Operate Protection Switch Optical Carrier Level X) command must be used.

Defined in GR-833.

Related Messages:

[ALW-SWDX-EQPT](#)

[ALW-SWTOWKG-EQPT](#)

[ED-EQPT](#)

[INH-SWDX-EQPT](#)

[INH-SWTOWKG-EQPT](#)

[REPT EVT EQPT](#)

[REPT RST EQPT](#)

[RST-EQPT](#)

[RTRV-COND-EQPT](#)

[SW-TOPROTN-EQPT](#)

[ALW-SWTOPROTN-EQPT](#)

[DLT-EQPT](#)

[ENT-EQPT](#)

[INH-SWTOPROTN-EQPT](#)

[REPT ALM EQPT](#)

[REPT RMV EQPT](#)

[RMV-EQPT](#)

[RTRV-ALM-EQPT](#)

[RTRV-EQPT](#)

[SW-TOWKG-EQPT](#)

Input Format

```
SW-DX-EQPT:[ TID ]:<EqptAid>:[ CTAG ]:::[ INCL=<INCL> ];
```

Input Parameters

EqptAid Equipment Access Identifier. The address of the duplex equipment which is currently carrying the load. *EqptAid* is the AID [SlotCsAid](#).

INCL INCLusive. This parameter provides a way for the user to request a forced switch even if otherwise prohibited. *INCL* is of type [BoolYN](#). The default value is "N".

Input Example

SW-DX-EQPT:SYS2:N3-4-CSA:333:::INCL=N;
--

Errors

This message generates all of the [Default Errors](#).

SW-DX-GR303

Name

SW-DX-GR303: Switch Duplex GR303

Description

Category: Protection Switching

Security: Maintenance - full

Instructs an C7 to protection switch EOC/TMC Datalink.

Defined by Calix and based on SW-DX in GR-833.

Related Messages:

[ALW-Swdx-GR303](#)

[ALW-Swdx-T1TG](#)

[DLT-CRS-T0](#)

[DLT-GR303](#)

[DLT-GR8](#)

[DLT-IG-DS1](#)

[DLT-T1TG](#)

[ED-GR303](#)

[ED-GR8](#)

[ENT-CRS-T0](#)

[ENT-GR303](#)

[ENT-GR8](#)

[ENT-IG-DS1](#)

[ENT-T1TG](#)

[INH-Swdx-GR303](#)

[INH-Swdx-T1TG](#)

[REPT ALM GR303](#)

[REPT ALM T1TG](#)

[REPT EVT GR303](#)

[REPT EVT T1TG](#)

[REPT SW GR303](#)

[REPT SW T1TG](#)

[RTRV-ALM-GR303](#)

[RTRV-ALM-T1TG](#)

[RTRV-COND-GR303](#)

[RTRV-COND-T1TG](#)

[RTRV-CRS-T0](#)

[RTRV-DLSTAT-GR303](#)

[RTRV-DLSTAT-T1TG](#)

[RTRV-GR303](#)

[RTRV-GR8](#)

[RTRV-IG-DS1](#)

[RTRV-T1TG](#)

[SW-DX-T1TG](#)

Input Format

SW-DX-GR303:[TID]:<DataLinkSwAid>:[CTAG];

Input Parameters

DataLinkSwAid Data Link Access Identifier. The address of the EOC/TMC which is to be switched.
DataLinkSwAid is the AID [IgLinkSwAid](#).

Input Example

SW-DX-GR303:SYS3:N3-5-IG4-EOC:CTAG;

Errors

This message generates all of the [Default Errors](#).

SW-DX-T1TG

Name

SW-DX-T1TG: Switch Duplex T1 Transport Group

Description

Category: Protection Switching **Security:** Maintenance - full

Instructs an C7 to protection switch EOC/TMC Datalink.

Defined by Calix and based on SW-DX in GR-833.

Related Messages:

[ALW-Swdx-GR303](#)
[DLT-CRS-T0](#)
[DLT-GR8](#)
[DLT-T1TG](#)
[ED-GR8](#)
[ENT-GR303](#)
[ENT-IG-DS1](#)
[INH-Swdx-GR303](#)
[REPT ALM GR303](#)
[REPT EVT GR303](#)

[ALW-Swdx-T1TG](#)
[DLT-GR303](#)
[DLT-IG-DS1](#)
[ED-GR303](#)
[ENT-CRS-T0](#)
[ENT-GR8](#)
[ENT-T1TG](#)
[INH-Swdx-T1TG](#)
[REPT ALM T1TG](#)
[REPT EVT T1TG](#)

[REPT SW GR303](#)
[RTRV-ALM-GR303](#)
[RTRV-COND-GR303](#)
[RTRV-CRS-T0](#)
[RTRV-DLSTAT-T1TG](#)
[RTRV-GR8](#)
[RTRV-T1TG](#)

[REPT SW T1TG](#)
[RTRV-ALM-T1TG](#)
[RTRV-COND-T1TG](#)
[RTRV-DLSTAT-GR303](#)
[RTRV-GR303](#)
[RTRV-IG-DS1](#)
[SW-DX-GR303](#)

Input Format

```
SW-DX-T1TG:[TID]:<DataLinkSwAid>:[CTAG];
```

Input Parameters

DataLinkSwAid Data Link Access Identifier. The address of the EOC/TMC which is to be switched.
DataLinkSwAid is the AID [IgLinkSwAid](#).

Input Example

```
SW-DX-T1TG:SYS3:N3-5-IG4-EOC:CTAG;
```

Errors

This message generates all of the [Default Errors](#).

SW-TOPROTN-EQPT

Name

SW-TOPROTN-EQPT: Switch To Protection Equipment

Description

Category: Protection Switching **Security:** Maintenance - full

Instructs an C7 to perform a protection switch from the working unit to the protection unit in a revertive 1:n protection equipment scheme.

The protecton unit is the unit which is normally in the standby mode waiting to provide protection to a group of working units. The working card is the unit which normally carries the load. It may or may not be the active unit.

The AID should be the working unit which is currently carrying the load. The command will be rejected if the working unit is not currently active.

Defined in GR-833.

Related Messages:

[ALW-SWDX-EQPT](#)
[ALW-SWTOWKG-EQPT](#)
[ED-EQPT](#)
[INH-SWDX-EQPT](#)
[INH-SWTOWKG-EQPT](#)
[REPT EVT EQPT](#)
[REPT RST EQPT](#)
[RST-EQPT](#)
[RTRV-COND-EQPT](#)
[SW-DX-EQPT](#)

[ALW-SWTOPROTN-EQPT](#)
[DLT-EQPT](#)
[ENT-EQPT](#)
[INH-SWTOPROTN-EQPT](#)
[REPT ALM EQPT](#)
[REPT RMV EQPT](#)
[RMV-EQPT](#)
[RTRV-ALM-EQPT](#)
[RTRV-EQPT](#)
[SW-TOWKG-EQPT](#)

Input Format

```
SW-TOPROTN-EQPT: [ TID ] :<EqptAid>: [ CTAG ] ;
```

Input Parameters

EqptAid Equipment Protecting Access Identifier. The address of the working equipment unit which is currently active and is to transfer its load to the protection unit. *EqptAid* is the AID [SlotLuAid](#).

Input Example

```
SW-TOPROTN-EQPT:SYS3:N3-2-3:CTAG ;
```

Errors

This message generates all of the [Default Errors](#).

SW-TOWKG-EQPT

Name

SW-TOWKG-EQPT: Switch To Working Equipment

Description

Category: Protection Switching

Security: Maintenance - full

Instructs an C7 to perform a protection switch from the protection unit to the working unit in a revertive 1:n protection equipment scheme.

The protection unit is the unit which is normally in the standby mode waiting to provide protection to a group of working units. The working card is the unit which normally carries the load.

The AID should be the protection unit which is currently carrying a load and is to transfer its load back to the working unit it is currently protecting.

Defined in GR-833.

Related Messages:

[ALW-SWDX-EQPT](#)
[ALW-SWTOWKG-EQPT](#)
[ED-EQPT](#)
[INH-SWDX-EQPT](#)
[INH-SWTOWKG-EQPT](#)
[REPT EVT EQPT](#)
[REPT RST EQPT](#)
[RST-EQPT](#)
[RTRV-COND-EQPT](#)
[SW-DX-EQPT](#)

[ALW-SWTOPTN-EQPT](#)
[DLT-EQPT](#)
[ENT-EQPT](#)
[INH-SWTOPTN-EQPT](#)
[REPT ALM EQPT](#)
[REPT RMV EQPT](#)
[RMV-EQPT](#)
[RTRV-ALM-EQPT](#)
[RTRV-EQPT](#)
[SW-TOPROTN-EQPT](#)

Input Format

```
SW-TOWKG-EQPT:[TID]:<EqptAid>:[CTAG];
```

Input Parameters

EqptAid Equipment Protection Access Identifier. The address of the protection equipment unit which is currently active and is to transfer its load back to the unit that normally carries the load.
EqptAid is the AID [SlotLuAid](#).

Input Example

```
SW-TOWKG-EQPT:SYS3:N3-2-3:CTAG;
```

Errors

This message generates all of the [Default Errors](#).

TRACE-IP-HOST

Name

TRACE-IP-HOST: Trace IP HOST

Description

Category: IP **Security:** N/A

This command provides an implementation of what is commonly referred to as "Traceroute". Traceroute uses the ICMP facility of IP, as defined in RFC 792, to monitor the progress of an IP packet through a network. It has become one of the standard IP utility commands typically available on any platform which supports an IP stack.

This command describes what is called the traceroute client, that is, a traceroute initiated from the C7 and is outward bound.

DNS is not currently supported in this release. This is true for other IP-related commands on the IRC as well. This means that the output of traceroute will display IP addresses but no host names.

TRACE-IP-HOST may require significant time to complete, and may be aborted via ABT-CMD.

Defined by Calix.

Input Format

```
TRACE-IP-
HOST:[TID]:<RTRAID>:[CTAG]:::IP=<IP>, [ [NPROBES=<NPROBES>, ]
[WAITTIME=<WAITTIME>, ][INTERVAL=<INTERVAL>, ][MAXFAILS=<MAXFAILS>, ]
[FIRSTHOP=<FIRSTHOP>, ][MAXHOP=<MAXHOP>, ][PROTOCOL=<PROTOCOL>, ]
[UDPPORT=<UDPPORT>]];
```

Input Parameters

RTRAID	The address of the IRC, Ge-2p, Virtual Router, H.248 IG, or VSP Port. <i>RTRAID</i> is the AID HostId1 . <i>RTRAID</i> must not be null.
IP	IP Address. The IP address of the destination. <i>IP</i> is the AID IpAid . <i>IP</i> must not be null.
NPROBES	Number of Probes. The number of probes to issue at each hop. <i>NPROBES</i> must be between 1 and 10. <i>NPROBES</i> is a Integer. A null value defaults to "3".
WAITTIME	Wait Time. The number of seconds to wait for a response to a probe. <i>WAITTIME</i> must be between 1 and 30. <i>WAITTIME</i> is a Integer. A null value defaults to "5".
INTERVAL	Interval. The number of seconds to wait between sending probes. <i>INTERVAL</i> must be between 0 and 30. <i>INTERVAL</i> is a Integer. A null value defaults to "0".
MAXFAILS	Maximum Failures. The number of probe failures before advancing to the next hop. This is handy when specifying a large number of <i>NPROBES</i> to help avoid long timeout

periods for unresponsive hosts. MAXFAILS must be between 0 and 30. *MAXFAILS* is a Integer. A null value defaults to "3".

FIRSTHOP First Hop. The number of the initial hop value. No processing will occur for those intermediate hops less than FIRSTHOP away. FIRSTHOP must be between 1 and 255 and less than or equal to MAXHOP. *FIRSTHOP* is a Integer. A null value defaults to "1".

MAXHOP Maximum Hops. The maximum number of hops before the operation will cease. MAXHOP must be between 1 and 255 and greater than or equal to FIRSTHOP. *MAXHOP* is a Integer. A null value defaults to "10".

PROTOCOL Protocol. The protocol of the probe packets. Currently only UDP is supported. *PROTOCOL* is of type [TracerouteProtocol](#). A null value defaults to "UDP".

UDPPORT The base port used in UDP probe packets. This parameter only applies when the PROTOCOL is UDP. Traceroute assumes that nothing is listening on UDP ports (UDPPORT+(HOP-1)*NPROBES) to (UDPPORT+(HOP*NPROBE)-1) at the destination host, so that an ICMP PORT_UNREACHABLE message will be returned to terminate the route tracing. If something is listening on a port in the default range, this option can be used to select an unused port range. HOP is defined as the number of hops between the source and the destination. *UDPPORT* is of type [UdpPort](#). A null value defaults to "33434".

Input Example

```
TRACE -IP -HOST:SYS2:N2-3-
4:123:::IP=192.168.27.239,NPROBES=3,WAITTIME=10,
INTERVAL=10,MAXFAILS=3,FIRSTHOP=3,MAXHOP=20,PROTOCOL=ICMP,UDPPORT=23456;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
" <RTRAID> :: [ [ HOP=<HOP>, ] [ IP=<IP>, ] [ RTT=<RTT> ] ] "
;
```

Output Parameters

RTRAID The address of the IRC, Virtual Router, H.248 IG, or VSP Port. *RTRAID* is the AID [HostId1](#).

HOP Hop. This is the number of hops between the source and the destination. *HOP* is a Integer. *HOP* is optional.

IP IP Address. This is the IP address of the hop being probed. *IP* is the AID [IpAid](#). *IP* is optional.

RTT Round Trip Time. This is the time in milliseconds taken by each probe. Values are displayed as a list, with the number of entries corresponding to NPROBES. If a probe was not answered, an asterisk (*) is displayed to indicate timeout. A value of zero indicates a rapid reply. *RTT* is a String. *RTT* is optional.

Output Example

M	TID-000 98-06-20 14-30-00
	001 COMPLD
	"N2-3-4::HOP=1, IP=192.168.21.3, RTT=557&385&398"
;	

Errors

This message generates all of the [Default Errors](#).

TST-ITACC-MET

Name

TST-ITACC-MET: Test Internal Test Access Metallic

Description

Category: Loop Testing **Security:** Testing

This command initiates a test of the metallic facility associated with two wire analog port. These tests are applicable only to twisted-pair copper based services. Coaxial facilities are not supported.

Initiating the test activates internal test circuitry that tests for foreign voltages on the Tip-Ring pairs and performs parametric tests on the line.

Defined by Calix.

Related Messages:

[CHG-SPLIT](#)

[CONN-LPACC-MET](#)

[CONN-TACC-MET](#)

[DISC-TACC](#)

[ED-FPACC](#)

[ENT-TGRP](#)

[RTRV-FPACC](#)

[TST-ONT-MET](#)

[CONN-FPACC-MET](#)

[CONN-MON](#)

[DISC-FPACC-MET](#)

[DLT-TGRP](#)

[ED-TGRP](#)

[REPT-STAT](#)

[RTRV-TGRP](#)

Input Format

TST-ITACC-MET: [TID] :<TOAid> : [CTAG] ::<TAP> : [INCL=<INCL>] ;
--

Input Parameters

- T0Aid** T0 Port Access Identifier. The address of the T0 port which is to be tested. *T0Aid* is the AID [TwentyFourPortLuAid](#). *T0Aid* must not be null.
- TAP** Test Access Path (TAP) Identifier. The test access path selected. This is an optional parameter. If the parameter is provided and the request TAP is not available, the command will be rejected. If the TAP is not provided, then the C7 will assign the TAP for the test. *TAP* is the AID [TapAid](#). *TAP* must not be null.
- INCL** Inclusive. Specifying INCL=Y will force the test to be performed regardless of Off-Hook status. *INCL* is of type [BoolYN](#). A null value is equivalent to "ALL".

Input Example

```
TST-ITACC-MET:SYS1:N3-4-3-3:333::2:INCL=N;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD
"<T0Aid>::[[ERROR=<ERROR>,][FVACTR=<FVACTR>,][FVACTG=<FVACTG>,]
[FVACRG=<FVACRG>,][FVDCTR=<FVDCTR>,][FVDCTG=<FVDCTG>,][FVDCRG=<FVDCRG>,
[RTR=<RTR>,][RTG=<RTG>,][RRG=<RRG>,][CCTR=<CCTR>,][CCTG=<CCTG>,
[CCRG=<CCRG>,][RC=<RC>,][REN=<REN>]]"
;
```

Output Parameters

- T0Aid** T0 Port Access Identifier. The address of the T0 port tested. *T0Aid* is the AID [TwentyFourPortLuAid](#).
- ERROR** Error. This indicates the type of error that occurred during the test. Errors include a foreign voltage out of range or possible ringer off-hook. This parameter will only appear in the response when an error actually occurred. *ERROR* is of type [MetTestErrorCode](#). *ERROR* is optional.
- FVACTR** Foreign AC Voltage Tip to Ring. This parameter identifies the measured value of the foreign AC Voltage for tip-to-ring. FVACTR is in units of Volts, RMS. This parameter is not currently supported. *FVACTR* is a Integer. *FVACTR* is optional.
- FVACTG** Foreign AC Voltage Tip to Ground. This parameter identifies the measured value of the foreign AC Voltage for tip-to-ground. FVACTG is in units of Volts, RMS. *FVACTG* is a Integer. *FVACTG* is optional.
- FVACRG** Foreign AC Voltage Ring To Ground. This parameter identifies the measured value of the foreign AC Voltage for ring-to-ground. FVACRG is in units of Volts, RMS. *FVACRG* is a Integer. *FVACRG* is optional.
- FVDCTR** Foreign DC Voltage Tip to Ring. This parameter identifies the measured value of the foreign DC Voltage for tip-to-ring. FVDCTR is in units of Volts. This parameter is not currently supported. *FVDCTR* is a Integer. *FVDCTR* is optional.
- FVDCTG** Foreign DC Voltage Tip to Ground. This parameter identifies the measured value of the foreign DC Voltage for tip-to-ground. FVDCTG is in units of Volts. *FVDCTG* is a Integer. *FVDCTG* is optional.
- FVDCRG** Foreign DC Voltage Ring To Ground. This parameter identifies the measured value of the foreign DC Voltage for ring-to-ground. FVDCRG is in units of Volts. *FVDCRG* is a Integer. *FVDCRG* is optional.

foreign DC Voltage for ring-to-ground. FVDCRG is in units of Volts. *FVDCRG* is a Integer. *FVDCRG* is optional.

- RTR** Resistance Tip To Ring. This parameter identifies the measured value of the resistance for tip-to-ring. RTR is in units of Ohms. *RTR* is a Integer. *RTR* is optional.
- RTG** Resistance Tip To Ground. This parameter identifies the measured value of the resistance for tip-to-ground. RTG is in units of Ohms. *RTG* is a Integer. *RTG* is optional.
- RRG** Resistance Ring To Ground. This parameter identifies the measured value of the resistance for ring-to-ground. RRG is in units of Ohms. *RRG* is a Integer. *RRG* is optional.
- CCTR** Cable Capacitance Tip To Ring. This parameter identifies the measured value of the cable capacitance for tip-to-ring. CCTR is in units of nanoFarads. *CCTR* is a Integer. *CCTR* is optional.
- CCTG** Cable Capacitance Tip To Ground. This parameter identifies the measured value of the cable capacitance for tip-to-ground. CCTG is in units of nanoFarads. *CCTG* is a Integer. *CCTG* is optional.
- CCRG** Cable Capacitance Ring To Ground. This parameter identifies the measured value of the cable capacitance for ring-to-ground. CCRG is in units of nanoFarads. *CCRG* is a Integer. *CCRG* is optional.
- RC** Ringer Capacitance. This parameter identifies the measured value of the ringer capacitance. RC is in units of microFarads. *RC* is a Integer. *RC* is optional.
- REN** Ringer Equivalence Number. This parameter identifies ringer equivalence measured on the line. REN is defined by the FCC part 68. The units for REN are REN * 1000, i.e. this value should be divided by 1000 to get the actual REN. *REN* is a Integer. *REN* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-4-3-
3: :ERROR=FV ,FVACTR=2 ,FVACTG=3 ,FVACRG=2 ,FVDCTR=4 ,FVDCTG=5 ,FVDCRG=4 ,
RTR=150000 ,RTG=175000 ,RRG=200000 ,CCTR=123 ,CCTG=234 ,CCRG=345 ,RC=1 ,
      REN=1075 "
;
```

Errors

This message generates all of the [Default Errors](#).

TST-ONT-MET

Name

TST-ONT-MET: Test Optical Network Termination Metallic

Description

Category: Loop Testing

Security: Testing

This command initiates a test of the metallic facility associated with T0 ports on an ONT.

Defined by Calix.

Related Messages:

CHG-SPLIT	CONN-FPACC-MET
CONN-LPACC-MET	CONN-MON
CONN-TACC-MET	DISC-FPACC-MET
DISC-TACC	DLT-AVO
DLT-GOS-ONT	DLT-IG-VDS1
DLT-ONT	DLT-PROF-ONT
DLT-RFVID	DLT-TGRP
DLT-VCG	DLT-VRP
ED-AVO	ED-FPACC
ED-GOS-ONT	ED-ONT
ED-PROF-ONT	ED-RFVID
ED-TGRP	ED-VCG
ED-VRP	ENT-AVO
ENT-GOS-ONT	ENT-IG-VDS1
ENT-ONT	ENT-PROF-ONT
ENT-RFVID	ENT-TGRP
ENT-VCG	ENT-VRP
INIT-ONT-UA	INIT-REG-ONT
REPT ALM AVO	REPT ALM ONT
REPT ALM RFVID	REPT ALM VCG
REPT ALM VRP	REPT EVT ONT
REPT RMV AVO	REPT RMV ONT
REPT RMV RFVID	REPT RST AVO
REPT RST ONT	REPT RST RFVID
REPT-STAT	RMV-AVO
RMV-ONT	RMV-RFVID
RST-AVO	RST-ONT
RST-RFVID	RTRV-ALM-AVO
RTRV-ALM-ONT	RTRV-ALM-RFVID
RTRV-ALM-VCG	RTRV-ALM-VRP
RTRV-AVO	RTRV-COND-ONT
RTRV-COND-VCG	RTRV-COND-VRP
RTRV-FPACC	RTRV-GOS-ONT
RTRV-IG-VDS1	RTRV-ONT
RTRV-ONT-UA	RTRV-PM-ONT

[RTRV-PROF-ONT](#)
[RTRV-STAT-HPNA](#)
[RTRV-TGRP](#)
[RTRV-VDS1](#)
[TST-ITACC-MET](#)

[RTRV-RFVID](#)
[RTRV-STAT-RFR](#)
[RTRV-VCG](#)
[RTRV-VRP](#)

Input Format

```
TST-ONT-MET:[TID]:<OntPortAid>:[CTAG]:::[INCL=<INCL>];
```

Input Parameters

OntPortAid T0 Port Access Identifier. The address of the ONT T0 port which is to be tested.
OntPortAid is the AID [OntPortAid](#) and is listable. *OntPortAid* must not be null.

INCL Inclusive. Specifying INCL=Y will force the test to be performed regardless of Off-Hook status. *INCL* is of type [BoolYN](#). A null value defaults to "N".

Input Example

```
TST-ONT-MET:SYS1:N3-2-6-1-23-3:202:::INCL=N;
```

Output Format

```
SID DATE TIME
M CTAG COMPLD

"<OntPortAid>::[ [RESULT=<RESULT>, ][FEMF=<FEMF>, ][HAZPOT=<HAZPOT>, ]
[RESFAULT=<RESFAULT>, ][ROH=<ROH>, ][RINGDET=<RINGDET> ] ]"
;"
```

Output Parameters

OntPortAid T0 Port Access Identifier. The address of the T0 port tested. *OntPortAid* is the AID [OntPortAid](#).

RESULT Test result. *RESULT* is of type [TstOntMetResult](#). *RESULT* is optional.

FEMF Foreign Voltage. *FEMF* is of type [PassFail](#). *FEMF* is optional.

HAZPOT Hazardous Potential Voltage. *HAZPOT* is of type [PassFail](#). *HAZPOT* is optional.

RESFAULT Resistive test. *RESFAULT* is of type [PassFail](#). *RESFAULT* is optional.

ROH Receiver Off-Hook. *ROH* is of type [BoolYN](#). *ROH* is optional.

RINGDET Ringing Detected. *RINGDET* is of type [BoolYN](#). *RINGDET* is optional.

Output Example

```
TID-000 98-06-20 14-30-00
M 001 COMPLD
"N3-2-6-1-23-"
```

3 :: RESULT=PASS , FEMF=Y , HAZPOT=Y , RESFAULT=Y , ROH=Y , RINGDET=Y "
;

Errors

This message generates all of the [Default Errors](#).

Access Identifiers

The Access IDentification code (AID) directs an input command to its intended physical or data entity inside the NE. Equipment Modules and facilities are typical examples of entities addressed by the access code.

ALL

AID	Patterns
-ALL	ALL
AdslChAid	N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}
AdslChAid-ALL	N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}-ALL
AllAlarmAid	ALL CMS N{1-255}-ENV{1-8} N{1-255}-{1-5}-VB{1-20} N{1-255}-{1-5}-VR{1-20} N{1-255}-{1-6}-ALL N{1-255}-{1-6}-ALM N{1-255}-{1-6}-DBCHG N{1-255}-{1-6}-FT N{1-255}-{1-6}-IG{1-15}-EOC N{1-255}-{1-6}-IG{1-15}-TMC N{1-255}-{1-6}-MS N{1-255}-{1-6}-MSP{A,B} N{1-255}-{1-6}-SECU N{1-255}-{1-6}-{1-20,CSA,CSB} N{1-255}-{1-6}-{1-20,CSA,CSB}- ALL N{1-255}-{1-6}-{1-20,CSA,CSB}- PP{1-2} N{1-255}-{1-6}-{1-20}-IMA{1-16}- ALL N{1-255}-{1-6}-{1-20}-IMA{1-16}- BWC{1-100,TDM,VOD} N{1-255}-{1-6}-{1-20}-{1-12}-

	BWC{1-100,TDM,VOD} N{1-255}-{1-6}-{1-20}-{1-24} N{1-255}-{1-6}-{1-20}-{1-24}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-48} N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}- ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}- BWC{1-100,TDM,VOD} N{1-255}-{1-6}-{1-20}-{1-4}-{1-64} N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}- ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}- {1-24} N{1-255}-{1-6}-{CSA,CSB}-{1} N{1-255}-{1-6}-{CSA,CSB}-{1}-ALL N{1-255}-{1-6}-{CSA,CSB}-{1}-{1- 48} N{1-255}-{1-6}-{CSA,CSB}-{1}-{1- 48}-ALL N{1-255}-{1-6}-{CSA,CSB}-{1}-{1- 48}-BWC{1-100,TDM,VOD} SYS
<u>AlmProfileAid</u>	AISCR AISNR LOSNR
<u>AlmProfileStsAid</u>	AISCR AISNR
<u>ApId</u>	
<u>AtmRscPortAid</u>	N{1-255}-{1-6}-{1-20}-AP{1-16}
<u>AtmTrfProfProvAid</u>	{1-500}
<u>AtmTrfProfSysAid</u>	AAL2-DS0X2 AAL2-DS0X4 AAL2-DS0X8 ATMOAM CRPRCVC G711_10MS G711_10MSAGG G711_20MS G711_20MSAGG H248CTRL INBANDMGMT ORPCTL SIPVCGCTRL SIP_10MS SIP_10MS3WAY SIP_20MS SIP_20MS3WAY T1 TDM UBR
<u>BwcAid</u>	TDM VIDSUB

	VOD {1-100}
<u>BwcIdNone</u>	NONE {1-100}
<u>BwcProvAid</u>	{1-100}
<u>BwcRngAid</u>	ALL TDM VIDSUB VOD {1-100}
<u>BwcTdmAid</u>	NONE TDM
<u>BwlinkId</u>	
<u>BwlinkId1</u>	
<u>CID</u>	N{1-255}-{1-6}-MS-{E1,E2} N{1-255}-{1-6}-MS-{S1,S2}
<u>CVidRegAid</u>	N{1-255}-{1-5}-VB{1-20}-{1-20}-{1-6}-{UNTAGGED,2-4094,DFLT} N{1-255}-{1-5}-VB{1-20}-{1-7960}-{UNTAGGED,2-4094,DFLT}
<u>CVidRegRngAid</u>	N{1-255}-{1-5}-VB{1-20}-{1-20}-{1-6}-ALL N{1-255}-{1-5}-VB{1-20}-{1-7960}-ALL
<u>CrsT0DstAid</u>	N{1-255}-{1-6}-IG{1-15}-{1-2048} N{1-255}-{1-6}-{1-20}-{1-12}-{1-24} N{1-255}-{1-6}-{1-20}-{1-24} N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-24} N{1-255}-{1-6}-{1-20}-{1-6}-{PR,EC}
<u>CrsT0RngAid</u>	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-IG{1-15} N{1-255}-{1-6}-IG{1-15}-ALL N{1-255}-{1-6}-IG{1-15}-{1-2048} N{1-255}-{1-6}-{1-20}-ALL N{1-255}-{1-6}-{1-20}-IG{1-6}-ALL N{1-255}-{1-6}-{1-20}-IG{1-6}-{1-96} N{1-255}-{1-6}-{1-20}-{1-12}-ALL N{1-255}-{1-6}-{1-20}-{1-12}-{1-24} N{1-255}-{1-6}-{1-20}-{1-24} N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-24} N{1-255}-{1-6}-{1-20}-{1-6}-{PR,EC}
<u>CrsT0SrcAid</u>	N{1-255}-{1-6}-IG{1-15}-{1-2048} N{1-255}-{1-6}-{1-20}-IG{1-6}-{1-96}

	N{1-255}-{1-6}-{1-20}-{1-12}-{1-24} N{1-255}-{1-6}-{1-20}-{1-24} N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}- {1-24} N{1-255}-{1-6}-{1-20}-{1-6}- {PR,EC}
CrvAid	N{1-255}-{1-6}-IG{1-15}-{1-2048}
CrvRngAid	ALL N{1-255}-ALL N{1-255}-{1-6}-ALL N{1-255}-{1-6}-IG{1-15}-ALL N{1-255}-{1-6}-IG{1-15}-{1-2048}
CvidregId	
DLProfileAid	N{1-255}-{1-6}-IG{1-15}-{0-1}
DataLinkAid	N{1-255}-{1-6}-{1-20}-IMA{1-16} N{1-255}-{1-6}-{1-20}-{1-12} N{1-255}-{1-6}-{CSA,CSB}-{1}
DataLinkRngAid	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20,CSA,CSB}- {ALL} N{1-255}-{1-6}-{1-20}-IMA{1-16} N{1-255}-{1-6}-{1-20}-{1-12} N{1-255}-{1-6}-{CSA,CSB}-{1}
DatalinkShelfAid	N{1-255}-{1-6} N{1-255}-{1-6}-{1-20}-IMA{1-16} N{1-255}-{1-6}-{1-20}-{1-12} N{1-255}-{1-6}-{CSA,CSB}-{1}
DccAid	N{1-255}-{1-6}-{1-20}-{1-4}- {SDCC,LDCC,LDCC1,LDCC2,LDCC3} N{1-255}-{1-6}-{CSA,CSB}-{1}- {SDCC,LDCC,LDCC1,LDCC2,LDCC3}
DccRngAid	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20,CSA,CSB}- ALL N{1-255}-{1-6}-{1-20}-{1-4}-ALL N{1-255}-{1-6}-{1-20}-{1-4}- {SDCC,LDCC,LDCC1,LDCC2,LDCC3} N{1-255}-{1-6}-{CSA,CSB}-{1}-ALL N{1-255}-{1-6}-{CSA,CSB}-{1}- {SDCC,LDCC,LDCC1,LDCC2,LDCC3}
DebugSlotAid	N{1-255}-{1-5}-{1-35}
DslProfAid	ADSL2 ADSL2+ ANNEXM GDMT GLITE MM MM2+ READSL2 T1413 {1-50}

DslProfAllAid	ADSL2 ADSL2+ ALL ANNEXM GDMT GLITE MM MM2+ READSL2 T1413 {1-50}
DslProfProvAid	{1-50}
E3Aid	N{1-255}-{1-5}-MS-E3
EnvAid	N{1-255}-ENV{1-8}
EnvRngAid	N{1-255}-ALL N{1-255}-ENV{1-8}
EocTmcAid	N{1-255}-{1-6}-{1-20}-{1-12}-12 N{1-255}-{1-6}-{1-20}-{1-12}-24
EpAid	N{1-255}-{1-5}-VB{1-20} N{1-255}-{1-5}-{1-20}-{1-4}-{1-64} N{1-255}-{1-6}-{1-20,CSA,CSB} N{1-255}-{1-6}-{1-20,CSA,CSB}- PP{1-2} N{1-255}-{1-6}-{1-20}-IMA{1-16} N{1-255}-{1-6}-{1-20}-{1-12}-{1-48} N{1-255}-{1-6}-{1-20}-{1-24} N{1-255}-{1-6}-{CSA,CSB}-{1} N{1-255}-{1-6}-{CSA,CSB}-{1}-{1- 48}
EpRngAid	N{1-255}-{1-5}-VB{1-20} N{1-255}-{1-5}-{1-20}-{1-4}-ALL N{1-255}-{1-5}-{1-20}-{1-4}-{1-64} N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}- ALL N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}- {1-12} N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20,CSA,CSB} N{1-255}-{1-6}-{1-20,CSA,CSB}- ALL N{1-255}-{1-6}-{1-20,CSA,CSB}- PP{1-2} N{1-255}-{1-6}-{1-20}-IMA{1-16} N{1-255}-{1-6}-{1-20}-{1-12}-ALL N{1-255}-{1-6}-{1-20}-{1-12}-{1-48} N{1-255}-{1-6}-{1-20}-{1-24} N{1-255}-{1-6}-{CSA,CSB}-{1} N{1-255}-{1-6}-{CSA,CSB}-{1}-ALL N{1-255}-{1-6}-{CSA,CSB}-{1}-{1- 48}
EquipmentId	
EquipmentId1	

EquipmentId2	
EquipmentId3	
EquipmentId6	
EquipmentId7	
EthAggAid	N{1-255}-{1-6}-{1-20}-AGG{1-12}
EthAggPortAid	N{1-255}-{1-6}-{1-20}-AGG{1-12} N{1-255}-{1-6}-{1-20}-{1-12}
EthAggRngAid	N{1-255}-{1-6}-{1-20}-AGG{1-12} N{1-255}-{1-6}-{1-20}-ALL
EthId	
EthId1	
EthId3	
EthId5	
EthProfAid	{1-100}
EthProfRngAid	ALL {1-100}
EthVtiAggPortAid	N{1-255}-{1-6}-VTI{1-80} N{1-255}-{1-6}-{1-20}-AGG{1-12} N{1-255}-{1-6}-{1-20}-{1-12}
EthVtiAggPortRngAid	N{1-255}-{1-6}-VTI{1-80} N{1-255}-{1-6}-{1-20}-AGG{1-12} N{1-255}-{1-6}-{1-20}-ALL N{1-255}-{1-6}-{1-20}-{1-12}
ExtControlAid	N{1-255}-EXT{1-2}
ExtControlRngAid	N{1-255}-ALL N{1-255}-EXT{1-2}
FourPortLuAid	N{1-255}-{1-5}-{1-20}-{1-4}
FourPortLuAndRapAid	N{1-255}-{1-5}-{1-20}-{1-4} N{1-255}-{1-5}-{CSA,CSB}-{1}
FourPortLuAndRapNtwkRngAid	ALL N{1-255}-ALL N{1-255}-{1-5}-ALL N{1-255}-{1-5}-{1-20,CSA,CSB}- ALL N{1-255}-{1-5}-{1-20}-{1-4} N{1-255}-{1-5}-{CSA,CSB}-{1}
FourPortLuAndRapRngAid	N{1-255}-{1-5}-ALL N{1-255}-{1-5}-{1-20,CSA,CSB}- ALL N{1-255}-{1-5}-{1-20}-{1-4} N{1-255}-{1-5}-{CSA,CSB}-{1}
FourPortLuNtwkRngAid	ALL N{1-255}-ALL N{1-255}-{1-5}-ALL N{1-255}-{1-5}-{1-20}-ALL N{1-255}-{1-5}-{1-20}-{1-4}
FourPortLuRngAid	N{1-255}-{1-5}-{1-20}-ALL N{1-255}-{1-5}-{1-20}-{1-4}

GePpAid	N{1-255}-{1-6}-{1-20}-PP1
GosAid	DEFLT OFF {1-20}
GosAllAid	ALL DEFLT OFF {1-20}
GosProvAid	{1-20}
HostId	
HostId1	
HostId3	
HostId4	
IfConfigAid	N{1-255}-{1-6}-MS-{E1,E2,E3}
IfConfigAidNone	NONE N{1-255}-{1-6}-MS-{E1,E2,E3}
IgAid	N{1-255}-{1-6}-IG{1-15}
IgCrvAid	N{1-255}-{1-6}-IG{1-15}-ALL N{1-255}-{1-6}-IG{1-15}-{1-2048}
IgCtrlLinkAid	N{1-255}-{1-6}-IG{1-15}-{PRI,SEC}
IgDs1Aid	N{1-255}-{1-6}-IG{1-15}-{1-28} N{1-255}-{1-6}-{1-20}-IG{1-6}- {A,B,C,D,P,AB,CD}
IgDs1RngAid	ALL N{1-255}-ALL N{1-255}-{1-6}-ALL N{1-255}-{1-6}-IG{1-15}-ALL N{1-255}-{1-6}-IG{1-15}-{1-28} N{1-255}-{1-6}-{1-20}-ALL N{1-255}-{1-6}-{1-20}-IG{1-6}-ALL N{1-255}-{1-6}-{1-20}-IG{1-6}- {A,B,C,D,P,AB,CD}
IgLinkAid	N{1-255}-{1-6}-IG{1-15}- {EOC,TMC}-{P,S}
IgLinkRngAid	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-IG{1-15}-ALL N{1-255}-{1-6}-IG{1-15}- {EOC,TMC}-ALL N{1-255}-{1-6}-IG{1-15}- {EOC,TMC}-{P,S}
IgLinkSwAid	N{1-255}-{1-6}-IG{1-15}-EOC N{1-255}-{1-6}-IG{1-15}-TMC
IgLinkSwRngAid	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-IG{1-15}-ALL N{1-255}-{1-6}-IG{1-15}-EOC N{1-255}-{1-6}-IG{1-15}-TMC
IgRngAid	ALL N{1-255}-ALL N{1-255}-{1-6}-ALL

	N{1-255}-{1-6}-IG{1-15}
IgVspAid	N{1-255}-{1-6}-IG{1-15}-{1-2}
IgVspRngAid	ALL N{1-255}-ALL N{1-255}-{1-6}-ALL N{1-255}-{1-6}-IG{1-15}-ALL N{1-255}-{1-6}-IG{1-15}-{1-28}
IkeProfAidNone	NONE {1-10}
IkeProfProvAid	{1-10}
IkeProfRngAid	ALL {1-10}
ImaGrpAid	N{1-255}-{1-6}-{1-20}-IMA{1-16}
ImaGrpAid-ALL	N{1-255}-{1-5}-{1-20}-IMA{1-16}- ALL
ImaRngAid	ALL N{1-255}-ALL N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20}-ALL N{1-255}-{1-6}-{1-20}-IMA{1-16}
IpAid	{0-255}.{0-255}.{0-255}.{0-255}
IpIfAid	N{1-255}-{1-6}-{1-20,CSA,CSB}- PP{1-2} N{1-255}-{1-6}-{1-20}-PP1 N{1-255}-{1-6}-{1-20}-{1-6}
IpIfPortAid	N{1-255}-{1-5}-VB{1-20} N{1-255}-{1-5}-VB{1-20}-VLAN{1- 4096} N{1-255}-{1-5}-VR{1-20}-{1-7960}
IpMask	{0-255}.{0-255}.{0-255}.{0-255}/{0- 32}
IpMaskAid	ALL/ALL {0-255}.{0-255}.{0-255}.{0-255}/ALL {0-255}.{0-255}.{0-255}.{0-255}/{0- 32}
IpRngAid	ALL {0-255}.{0-255}.{0-255}.{0-255}
IrcPpAid	N{1-255}-{1-6}-{1-20,CSA,CSB}-PP1
IrcPpRngAid	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20,CSA,CSB}- ALL N{1-255}-{1-6}-{1-20,CSA,CSB}-PP1
JoinId	
L2IfAid	N{1-255}-{1-5}-{1-20}-IMA{1-16}- VP{0-4095}-VC{32-65535} N{1-255}-{1-5}-{1-20}-PP{1-2}- VP{0-4095}-VC{32-65535} N{1-255}-{1-5}-{1-20}-{1-12}-VP{0- 4095}-VC{32-65535} N{1-255}-{1-5}-{1-20}-{1-24}

	N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}-VP{0-4095}-VC{32-32767} N{1-255}-{1-5}-{1-20}-{1-4}-{1-48}-VP{0-4095}-VC{32-65535} N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12}-{1-12} N{1-255}-{1-5}-{CSA,CSB}-PP{1-2}-VP{0-4095}-VC{32-65535} N{1-255}-{1-5}-{CSA,CSB}-{1}-{1-48}-VP{0-4095}-VC{32-65535} N{1-255}-{1-6}-{CSA,CSB}-{1}
<u>LSwitchAid</u>	N{1-255}-{1-6}-XLAN{1-100}
<u>LSwitchPortAid</u>	N{1-255}-{1-6}-XLAN{1-100}-NTWK{1-2} N{1-255}-{1-6}-XLAN{1-100}-{1-1000}
<u>LSwitchPortRngAid</u>	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-XLAN{1-100}-ALL N{1-255}-{1-6}-XLAN{1-100}-NTWK{1-2} N{1-255}-{1-6}-XLAN{1-100}-{1-1000}
<u>LSwitchRngAid</u>	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-XLAN{1-100}
<u>LeaseId</u>	
<u>LinkBwcAid</u>	N{1-255}-{1-6}-{1-20}-IMA{1-16}-BWC{1-100,TDM,VOD} N{1-255}-{1-6}-{1-20}-{1-12}-BWC{1-100,TDM,VOD} N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-BWC{1-100,TDM,VOD} N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-BWC{1-100,TDM,VOD}
<u>LinkBwcRngAid</u>	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20,CSA,CSB}-ALL N{1-255}-{1-6}-{1-20}-IMA{1-16}-ALL N{1-255}-{1-6}-{1-20}-IMA{1-16}-BWC{1-100,TDM,VOD} N{1-255}-{1-6}-{1-20}-{1-12}-ALL N{1-255}-{1-6}-{1-20}-{1-12}-BWC{1-100,TDM,VOD} N{1-255}-{1-6}-{1-20}-{1-24}-CH{0-1}-BWC{VIDSUB} N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-BWC{1-100,TDM,VOD} N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-

	{1-24}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-24}-BWC{VIDSUB} N{1-255}-{1-6}-{CSA,CSB}-{1}-ALL N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-ALL N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-BWC{1-100,TDM,VOD}
LinkBwcVidSubAid	N{1-255}-{1-6}-{1-20}-{1-24}-CH{0-1}-BWC{VIDSUB} N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-24}-BWC{VIDSUB}
LinkId	
LogAid	N{1-255}-{1-6}-{1-9999}
LogRngAid	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-9999}
MacAid	{0-9,A-F}{0-9,A-F}-{0-9,A-F}{0-9,A-F}-{0-9,A-F}{0-9,A-F}-{0-9,A-F}{0-9,A-F}-{0-9,A-F}{0-9,A-F}-{0-9,A-F}{0-9,A-F}
MacRngAid	ALL {0-9,A-F}{0-9,A-F}-{0-9,A-F}{0-9,A-F}-{0-9,A-F}{0-9,A-F}-{0-9,A-F}{0-9,A-F}-{0-9,A-F}{0-9,A-F}-{0-9,A-F}{0-9,A-F}
MsAid	N{1-255}-{1-6}-MS
MsAllAid	ALL N{1-255}-{1-6}-MS
MsNoneAid	NONE N{1-255}-{1-6}-MS
MsRngAid	N{1-255}-{1-5}-MS-ALL
NodeAid	N{1-255}
NodeAllAid	N{1-255}-ALL
NodeId	
NoneAid	NONE
OWAid	N{1-255}-{1-6}-MS-{SECOW,LINEOW} N{1-255}-{1-6}-{1-20}-{1-4}-{SECOW,LINEOW} N{1-255}-{1-6}-{CSA,CSB}-{1}-{SECOW,LINEOW}
Oc48Aid	N{1-255}-{1-6}-{1-20,CSA,CSB}-{1}
Oc48RngAid	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20,CSA,CSB}-ALL N{1-255}-{1-6}-{1-20,CSA,CSB}-{1}
OntAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}
OntAid-ALL	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-ALL

OntEthEpIdxAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}- {1-12}-{1-12,20-30}
OntEthEpIdxAid-ALL	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}- {1-12}-ALL
OntEthVodEpIdx	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}- {1-12}-{20-30}
OntId	
OntId2	
OntId3	
OntNtwkRngAid	ALL N{1-255}-ALL N{1-255}-{1-5}-ALL N{1-255}-{1-5}-{1-20}-ALL N{1-255}-{1-5}-{1-20}-{1-4}-ALL N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}
OntPortAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}- {1-24}
OntPortNtwkRngAid	ALL N{1-255}-ALL N{1-255}-{1-5}-ALL N{1-255}-{1-5}-{1-20}-ALL N{1-255}-{1-5}-{1-20}-{1-4}-ALL N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}- ALL N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}- {1-24}
OntPortRngAid	N{1-255}-{1-5}-ALL N{1-255}-{1-5}-{1-20}-ALL N{1-255}-{1-5}-{1-20}-{1-4}-ALL N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}- ALL N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}- {1-24}
OntProfAid	{1-50}
OntProfSystemAid	ONT710 ONT711 ONT712 ONT714 ONT720 ONT721 ONT722 ONT724 ONT740
OntRngAid	N{1-255}-{1-5}-ALL N{1-255}-{1-5}-{1-20}-ALL N{1-255}-{1-5}-{1-20}-{1-4}-ALL N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}
OntUaAid	N{1-255}-{1-5}-{1-20}-{1-4}-UA
QuiAid	{0-9,A-F}{0-9,A-F}-{0-9,A-F}{0-9,A- F}-{0-9,A-F}{0-9,A-F}

<u>OuiAidRng</u>	ALL {0-9,A-F}{0-9,A-F}-{0-9,A-F}{0-9,A-F}-{0-9,A-F}{0-9,A-F}
<u>PacketVlanAid</u>	N{1-255}-{1-5}-VB{1-20}-VLAN{1-4094}
<u>PacketVlanRngAid</u>	N{1-255}-ALL N{1-255}-{1-5}-ALL N{1-255}-{1-5}-VB{1-20}-ALL N{1-255}-{1-5}-VB{1-20}-VLAN{1-4094}
<u>PktVlanPortRngAid</u>	N{1-255}-{1-5}-VB{1-20}-ALL N{1-255}-{1-5}-VB{1-20}-{1-7960} N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20}-ALL N{1-255}-{1-6}-{1-20}-{1-6}
<u>PortCsAid</u>	N{1-255}-{1-5}-{CSA,CSB}-{1}
<u>PortCsAid-ALL</u>	N{1-255}-{1-5}-{CSA,CSB}-{1}-ALL
<u>PortId</u>	
<u>PortLuAid-ALL</u>	N{1-255}-{1-5}-{1-20}-{1-24}-ALL
<u>PortNoneAid</u>	NONE N{1-255}-{1-6}-{1-20}-{1-24} N{1-255}-{1-6}-{CSA,CSB}-{1}
<u>Pp1LuRngAid</u>	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20}-ALL N{1-255}-{1-6}-{1-20}-PP1
<u>Pp1RngAid</u>	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20,CSA,CSB} - ALL N{1-255}-{1-6}-{1-20,CSA,CSB} - PP1
<u>PpAid</u>	N{1-255}-{1-6}-{1-20,CSA,CSB} - PP{1-2}
<u>PpCsAid-ALL</u>	N{1-255}-{1-5}-{CSA,CSB}-PP{1-2} - ALL
<u>PpLuAid-ALL</u>	N{1-255}-{1-5}-{1-20}-PP{1-2}-ALL
<u>PpRngAid</u>	ALL N{1-255}-ALL N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20,CSA,CSB} - ALL N{1-255}-{1-6}-{1-20,CSA,CSB} - PP{1-2}
<u>PplBrAid</u>	N{1-255}-{1-6}-{1-20}-{1-4}-{1-65536} N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-65536}
<u>PplId1</u>	
<u>PplRngAid</u>	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20,CSA,CSB} - ALL N{1-255}-{1-6}-{1-20}-{1-4}-ALL

	N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}- ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}- PPL{1-255}-{1-6}-{1-65536} N{1-255}-{1-6}-{CSA,CSB}-{1}-ALL N{1-255}-{1-6}-{CSA,CSB}-{1}-{1- 48}-ALL N{1-255}-{1-6}-{CSA,CSB}-{1}-{1- 48}-PPL{1-255}-{1-6}-{1-65536}
PplUnbrAid	N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}- PPL{1-255}-{1-6}-{1-65536} N{1-255}-{1-6}-{CSA,CSB}-{1}-{1- 48}-PPL{1-255}-{1-6}-{1-65536}
PppoaAid	N{1-255}-{1-5}-VB{1-20} N{1-255}-{1-6}-{1-20}-PP1 N{1-255}-{1-6}-{1-20}-{1-6}
PppoeAcRtrAid	N{1-255}-{1-5}-VB{1-20} N{1-255}-{1-6}-{1-20} N{1-255}-{1-6}-{1-20}-{1-6}
PppoeAcStatAid	N{1-255}-{1-5}-VB{1-20} N{1-255}-{1-5}-{1-20}
PppoeRtrAid	N{1-255}-{1-5}-VB{1-20} N{1-255}-{1-6}-{1-20} N{1-255}-{1-6}-{1-20}-PP1 N{1-255}-{1-6}-{1-20}-{1-6}
PppoehostId	
RmtDevAid	N{1-255}-{1-5}-RMT{1-127}
RmtDevDiscAid	N{1-255}-{1-6}-MS-{E1,E2,E3} N{1-255}-{1-6}-{1-20}-{1-6} N{1-255}-{1-6}-{CSA,CSB}-{1}
RmtDevDiscRngAid	ALL N{1-255}-ALL N{1-255}-{1-6}-ALL N{1-255}-{1-6}-MS-{E1,E2,E3} N{1-255}-{1-6}-{1-20,CSA,CSB}- ALL N{1-255}-{1-6}-{1-20}-{1-6} N{1-255}-{1-6}-{CSA,CSB}-{1}
RmtDevRngAid	ALL N{1-255}-ALL N{1-255}-{1-5}-ALL N{1-255}-{1-5}-RMT{1-127}
RmtdevId	
RouteId	
RouteId1	
RouterAid	N{1-255}-{1-5}-VR{1-20} N{1-255}-{1-5}-{1-20}
SecuTmpltAid	COTECH DEFLT OPTECH

	SRVORD SYSADMIN {1-20}
SecuTmpltAllAid	ALL COTECH DEFLT OPTECH SRVORD SYSADMIN {1-20}
SecuTmpltProvAid	{1-20}
SecurityId	
SecurityId1	
SerialPort	N{1-255}-{1-6}-MS-{S1,S2}
SfpId3	
ShelfAid	N{1-255}-{1-5}
ShelfAid-ALL	N{1-255}-{1-5}-ALL
ShelfId	
ShelfOrSlotAid	N{1-255}-{1-6} N{1-255}-{1-6}-{1-20,CSA,CSB}
SipId1	
SipT0PortAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}- SIP{1-12}
SipT0PortNtwkRngAid	ALL N{1-255}-ALL N{1-255}-{1-5}-ALL N{1-255}-{1-5}-{1-20}-ALL N{1-255}-{1-5}-{1-20}-{1-4}-ALL N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}- ALL N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}- SIP{1-12}
SipT0PortRngAid	N{1-255}-{1-5}-ALL N{1-255}-{1-5}-{1-20}-ALL N{1-255}-{1-5}-{1-20}-{1-4}-ALL N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}- ALL N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}- SIP{1-12}
SipVcgNextIndexAid	N{1-255}-{1-6}-IG{1-15}-NEXT
SixPortLuAid	N{1-255}-{1-6}-{1-20}-{1-6}
SixPortLuNtwkRngAid	ALL N{1-255}-ALL N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20}-ALL N{1-255}-{1-6}-{1-20}-{1-6}
SixPortLuRngAid	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20}-ALL N{1-255}-{1-6}-{1-20}-{1-6}

SlotCsAid	N{1-255}-{1-5}-{CSA,CSB}
SlotCsAid-ALL	N{1-255}-{1-5}-{CSA,CSB}-ALL
SlotFtAid	N{1-255}-{1-5}-FT
SlotIgAid	N{1-255}-{1-6}-{1-20}-IG{1-6}
SlotIgRngAid	ALL N{1-255}-ALL N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20}-ALL N{1-255}-{1-6}-{1-20}-IG{1-6}
SlotLuAid	N{1-255}-{1-5}-{1-20}
SlotLuAid-ALL	N{1-255}-{1-5}-{1-20}-ALL
SlotMsAid	N{1-255}-{1-5}-MS
SlotMspAid	N{1-255}-{1-5}-MSP{A,B}
StpGroupAid	N{1-255}-{1-5}-VB{1-20}-STP{1-20}
StpGroupRngAid	ALL N{1-255}-ALL N{1-255}-{1-5}-ALL N{1-255}-{1-5}-VB{1-20}-ALL N{1-255}-{1-5}-VB{1-20}-STP{1-20}
StsAid	N{1-255}-{1-6}-{1-20}-{1-12}-{1-48} N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}
StsCrsAid	N{1-255}-{1-6}-VTI{1-80}-{1-21} N{1-255}-{1-6}-{1-20}-{1-12} N{1-255}-{1-6}-{1-20}-{1-12}-{1-48} N{1-255}-{1-6}-{CSA,CSB}-{1} N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}
StsCrsRngAid	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-VTI{1-80}-ALL N{1-255}-{1-6}-VTI{1-80}-{1-21} N{1-255}-{1-6}-{1-20,CSA,CSB}- ALL N{1-255}-{1-6}-{1-20}-{1-12} N{1-255}-{1-6}-{1-20}-{1-12}-ALL N{1-255}-{1-6}-{1-20}-{1-12}-{1-48} N{1-255}-{1-6}-{CSA,CSB}-{1} N{1-255}-{1-6}-{CSA,CSB}-{1}-ALL N{1-255}-{1-6}-{CSA,CSB}-{1}-{1- 48}
StsCsAid-ALL	N{1-255}-{1-5}-{CSA,CSB}-{1}-{1- 48}-ALL
StsLuAid-ALL	N{1-255}-{1-5}-{1-20}-{1-4}-{1-48}- ALL
StsNtwkRngAid	ALL N{1-255}-ALL N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20,CSA,CSB}- ALL N{1-255}-{1-6}-{1-20}-{1-12}-ALL

	N{1-255}-{1-6}-{1-20}-{1-12}-{1-48} N{1-255}-{1-6}-{CSA,CSB}-{1}-ALL N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}
StsRngAid	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20,CSA,CSB}-ALL N{1-255}-{1-6}-{1-20}-{1-12}-ALL N{1-255}-{1-6}-{1-20}-{1-12}-{1-48} N{1-255}-{1-6}-{CSA,CSB}-{1}-ALL N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}
SubIfBindingAid	NTWK N{1-255} N{1-255}-{1-5} N{1-255}-{1-5}-{1-20} N{1-255}-{1-5}-{1-20}-{1-24} N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12} N{1-255}-{1-5}-{CSA,CSB} N{1-255}-{1-5}-{CSA,CSB}-{1}
SubIfBindingRng	ALL NTWK N{1-255} N{1-255}-ALL N{1-255}-{1-5} N{1-255}-{1-5}-ALL N{1-255}-{1-5}-{1-20} N{1-255}-{1-5}-{1-20}-ALL N{1-255}-{1-5}-{1-20}-{1-24} N{1-255}-{1-5}-{1-20}-{1-4}-ALL N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-ALL N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-24} N{1-255}-{1-5}-{CSA,CSB} N{1-255}-{1-5}-{CSA,CSB}-{1}
SysAid	SYS
SystemId	
SystemId1	
T0CrvAid	N{1-255}-{1-6}-{1-20}-{1-24}
T0Id	
T1CrsAid	N{1-255}-{1-6}-{1-20}-IMA{1-16}-VP{0-4095}-VC{32-65535} N{1-255}-{1-6}-{1-20}-{1-12} N{1-255}-{1-6}-{1-20}-{1-12}-VP{0-4095}-VC{32-65535} N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-VP{0-4095}-VC{32-65535} N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-24} N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-

	48}-VP{0-4095}-VC{32-65535}
T1CrsRngAid	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20}-ALL N{1-255}-{1-6}-{1-20}-IMA{1-16}- ALL N{1-255}-{1-6}-{1-20}-{1-12} N{1-255}-{1-6}-{1-20}-{1-12}-ALL N{1-255}-{1-6}-{1-20}-{1-12}-VP{0- 4095}-ALL N{1-255}-{1-6}-{1-20}-{1-12}-VP{0- 4095}-VC{32-65535} N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}- ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}- VP{0-4095}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}- VP{0-4095}-VC{32-65535} N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}- ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}- {1-12} N{1-255}-{1-6}-{CSA,CSB}-ALL N{1-255}-{1-6}-{CSA,CSB}-{1}-ALL N{1-255}-{1-6}-{CSA,CSB}-{1}-{1- 48}-ALL N{1-255}-{1-6}-{CSA,CSB}-{1}-{1- 48}-VP{0-4095}-ALL N{1-255}-{1-6}-{CSA,CSB}-{1}-{1- 48}-VP{0-4095}-VC{32-65535}
T1Id	
T3Aid	N{1-255}-{1-6}-{1-20}-{1-12}
T3NtwkRngAid	ALL N{1-255}-ALL N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20}-ALL N{1-255}-{1-6}-{1-20}-{1-12}
T3RngAid	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20}-ALL N{1-255}-{1-6}-{1-20}-{1-12}
TCGroupAid	{1-15}
TCGroupRngAid	{1-15}
TapAid	{1-2}
TermUnitAid	N{1-255}-{1-6}-{1-20} N{1-255}-{1-6}-{1-20}-{1-24}
TimePeriodAid	{0-23}-{0-59}-{0-59} {0-31}-{0-23}-{0-59}-{0-59} {0-59} {0-59}-{0-59}
TimingAid	N{1-255}-{1-6}-DDS1 N{1-255}-{1-6}-SYS
TrapAid	{1-4}

<u>TrfClassAid</u>	{1-15}
<u>TrfClassRngAid</u>	ALL {1-15}
<u>TrfId</u>	
<u>TrfId1</u>	
<u>TsiVciAddr</u>	N{1-255}-{1-5}-{1-20}-TSI-VP{0-4095}-VC{0-65535}
<u>TwelvePortLuAid</u>	N{1-255}-{1-6}-{1-20}-{1-12} N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-12}
<u>TwelvePortLuNtwkRngAid</u>	ALL N{1-255}-ALL N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20}-ALL N{1-255}-{1-6}-{1-20}-{1-12} N{1-255}-{1-6}-{1-20}-{1-4}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-12}
<u>TwelvePortLuOrIrcPpAid</u>	N{1-255}-{1-6}-{1-20}-PP{1-2} N{1-255}-{1-6}-{1-20}-{1-12} N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-12}
<u>TwelvePortLuOrIrcPpInitRngAid</u>	N{1-255}-{1-6}-{1-20}-ALL N{1-255}-{1-6}-{1-20}-PP{1-2} N{1-255}-{1-6}-{1-20}-{1-12} N{1-255}-{1-6}-{1-20}-{1-4}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-12}
<u>TwelvePortLuOrIrcPpRngAid</u>	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20}-ALL N{1-255}-{1-6}-{1-20}-PP{1-2} N{1-255}-{1-6}-{1-20}-{1-12} N{1-255}-{1-6}-{1-20}-{1-4}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-12}
<u>TwelvePortLuRngAid</u>	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20}-ALL N{1-255}-{1-6}-{1-20}-{1-12} N{1-255}-{1-6}-{1-20}-{1-4}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-12}
<u>TwentyFourPortLuAid</u>	N{1-255}-{1-6}-{1-20}-{1-24} N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-

	{ 1-24 }
TwentyFourPortLuNtwkRngAid	ALL N{1-255}-ALL N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20}-ALL N{1-255}-{1-6}-{1-20}-{1-24} N{1-255}-{1-6}-{1-20}-{1-4}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}- ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}- {1-24}
TwentyFourPortLuRngAid	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20}-ALL N{1-255}-{1-6}-{1-20}-{1-24} N{1-255}-{1-6}-{1-20}-{1-4}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}- ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}- {1-24}
TwoPortLuAid	N{1-255}-{1-6}-{1-20}-{1-2}
UserAid	{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0- 9} {A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0- 9}{A-Z,0-9} {A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0- 9}{A-Z,0-9}{A-Z,0-9} {A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0- 9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0- 9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9} {A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0- 9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0- 9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9} {A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0- 9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0- 9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9} {A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0- 9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0- 9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9} {A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0- 9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0- 9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}
UserAllAid	ALL {A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0- 9} {A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0- 9}{A-Z,0-9} {A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0- 9}{A-Z,0-9}{A-Z,0-9} {A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0- 9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0- 9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9} {A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0- 9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0- 9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9} {A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0- 9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0- 9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}

	9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}
<u>VlanAid</u>	XLAN{1-100}-VLAN{2-4094}
<u>VlanPortAid</u>	N{1-255}-{1-6}-{1-20}-{1-12}-XLAN{1-100}-VLAN{2-4094}
<u>VlanPortRngAid</u>	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20}-ALL N{1-255}-{1-6}-{1-20}-{1-12}-ALL N{1-255}-{1-6}-{1-20}-{1-12}-XLAN{1-100}-ALL N{1-255}-{1-6}-{1-20}-{1-12}-XLAN{1-100}-VLAN{2-4094}
<u>VlanRngAid</u>	XLAN{1-100}-ALL XLAN{1-100}-VLAN{2-4094}
<u>VbAid</u>	N{1-255}-{1-5}-VB{1-20}
<u>VbAid-ALL</u>	N{1-255}-{1-5}-VB{1-20}-ALL
<u>VbEpIdxAid</u>	N{1-255}-{1-5}-VB{1-20}-{1-7960}
<u>VbEpNextAid</u>	N{1-255}-{1-5}-VB{1-20}-NEXT
<u>VbEpSysIdxAid</u>	N{1-255}-{1-5}-VB{1-20}-{7961-65535}
<u>VbPortAid</u>	N{1-255}-{1-5}-VB{1-20}-{1-20}-{1-6} N{1-255}-{1-5}-VB{1-20}-{1-7960}
<u>VbPortRngAid</u>	N{1-255}-{1-5}-ALL N{1-255}-{1-5}-VB{1-20}-ALL N{1-255}-{1-5}-VB{1-20}-{1-20}-ALL N{1-255}-{1-5}-VB{1-20}-{1-20}-{1-6} N{1-255}-{1-5}-VB{1-20}-{1-7960}
<u>VbRngAid</u>	ALL N{1-255}-ALL N{1-255}-{1-5}-ALL N{1-255}-{1-5}-VB{1-20}
<u>Vc12PortAid</u>	N{1-255}-{1-5}-{1-20}-{1-12}-VP{0-4095}-VC{32-65535}
<u>Vc6PortAid</u>	N{1-255}-{1-5}-{1-20}-{1-6}-VP{0-4095}-VC{32-65535}
<u>VcAdslChAid</u>	N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}-VP{0-255}-VC{32-32767}
<u>VcCsPpAid</u>	N{1-255}-{1-5}-{CSA,CSB}-PP{1-2}-VP{0-4095}-VC{32-65535}
<u>VcCsStsAid</u>	N{1-255}-{1-5}-{CSA,CSB}-{1}-{1-48}-VP{0-4095}-VC{20,32-65535}
<u>VcId</u>	
<u>VcId1</u>	
<u>VcId11</u>	
<u>VcId12</u>	
<u>VcId13</u>	

VcId14	
VcId16	
VcId17	
VcId2	
VcId3	
VcId4	
VcId5	
VcId6	
VcId7	
VcId8	
VcId9	
VcImaGrpAid	N{1-255}-{1-5}-{1-20}-AP{1-16}- VP{0-4095}-VC{32-65535} N{1-255}-{1-5}-{1-20}-IMA{1-16}- VP{0-4095}-VC{32-65535}
VcImaGrpRngAid	N{1-255}-{1-5}-{1-20}-AP{1-16}- ALL N{1-255}-{1-5}-{1-20}-AP{1-16}- VP{0-4095}-ALL N{1-255}-{1-5}-{1-20}-AP{1-16}- VP{0-4095}-VC{32-65535} N{1-255}-{1-5}-{1-20}-IMA{1-16}- ALL N{1-255}-{1-5}-{1-20}-IMA{1-16}- VP{0-4095}-ALL N{1-255}-{1-5}-{1-20}-IMA{1-16}- VP{0-4095}-VC{32-65535}
VcLuPpAid	N{1-255}-{1-5}-{1-20}-PP{1-2}- VP{0-4095}-VC{32-65535}
VcLuStsAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-48}- VP{0-4095}-VC{20,32-65535}
VcSysAid	N{1-255}-{1-5}-SYS-{1-2}-VP{0- 4095}-VC{32-65535}
VcglinkId	
VcglinkId2	
Vds1Aid	N{1-255}-{1-6}-{1-20}-V{1-14}
Vds1NtwkRngAid	ALL N{1-255}-ALL N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20}-ALL N{1-255}-{1-6}-{1-20}-V{1-14}
VidServAid	1
VidServRngAid	1 ALL
VidSubAid	N{1-255}-{1-5}-VB{1-20}-{1-20}-{1- 6} N{1-255}-{1-5}-{1-20}-{1-24}-CH0 N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}- {1-24}

VidSubRngAid	N{1-255}-{1-5}-VB{1-20}-ALL N{1-255}-{1-5}-VB{1-20}-{1-20}-ALL N{1-255}-{1-5}-VB{1-20}-{1-20}-{1-6} N{1-255}-{1-5}-{1-20}-{1-24}-CH0 N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20}-ALL N{1-255}-{1-6}-{1-20}-{1-4} N{1-255}-{1-6}-{1-20}-{1-4}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-24}
VidSubTmpltAid	{1-50}
VidSvcAid	1
VidSvcRngAid	1 ALL
VidVcRngAid	ALL N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20,CSA,CSB}-ALL N{1-255}-{1-6}-{1-20,CSA,CSB}-PP{1-2}-ALL N{1-255}-{1-6}-{1-20,CSA,CSB}-PP{1-2}-VP{0-4095}-VC{32-65535} N{1-255}-{1-6}-{1-20}-IMA{1-16}-ALL N{1-255}-{1-6}-{1-20}-IMA{1-16}-VP{0-4095}-VC{32-65535} N{1-255}-{1-6}-{1-20}-{1-12}-VP{0-4095}-VC{32-65535} N{1-255}-{1-6}-{1-20}-{1-24}-ALL N{1-255}-{1-6}-{1-20}-{1-24}-CH{0-1}-ALL N{1-255}-{1-6}-{1-20}-{1-24}-CH{0-1}-VP{0-4095}-VC{32-32767} N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-VP{0-4095}-VC{32-65535} N{1-255}-{1-6}-{CSA,CSB}-{1}-ALL N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-ALL N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-VP{0-4095}-VC{32-65535}
VidchanId	
VidvcId	
VidvcId1	
VidvcId3	
VirtualBridgeId	

VirtualBridgeId1	
VirtualBridgePortId	
VirtualBridgePortId1	
VirtualBridgePortId2	
VirtualRouterId	
VirtualRouterPortId1	
VlanId	
VlanId1	
VlanPortTmpltAid	{ 1-20 }
VlanPortTmpltRngAid	ALL { 1-20 }
VodFlowAid	{ 1-10000 }
VodFlowRngAid	ALL { 1-10000 }
VodscluId	
VodscluId1	
VpAid	N{1-255}-{1-6}-{1-20,CSA,CSB}- PP{1-2}-VP{1-4095} N{1-255}-{1-6}-{1-20}-AP{1-16}- VP{1-4095} N{1-255}-{1-6}-{1-20}-IMA{1-16}- VP{1-4095} N{1-255}-{1-6}-{1-20}-{1-12}-VP{1- 4095} N{1-255}-{1-6}-{1-20}-{1-24}-CH{0- 1}-VP{1-4095} N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}- VP{1-4095} N{1-255}-{1-6}-{CSA,CSB}-{1}-{1- 48}-VP{1-4095}
VpRngAid	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20,CSA,CSB}- ALL N{1-255}-{1-6}-{1-20,CSA,CSB}- PP{1-2}-ALL N{1-255}-{1-6}-{1-20,CSA,CSB}- PP{1-2}-VP{1-4095} N{1-255}-{1-6}-{1-20}-AP{1-16}- ALL N{1-255}-{1-6}-{1-20}-AP{1-16}- VP{1-4095} N{1-255}-{1-6}-{1-20}-IMA{1-16}- ALL N{1-255}-{1-6}-{1-20}-IMA{1-16}- VP{1-4095} N{1-255}-{1-6}-{1-20}-{1-12}-VP{1- 4095} N{1-255}-{1-6}-{1-20}-{1-24}-ALL N{1-255}-{1-6}-{1-20}-{1-24}-CH{0- 1}-ALL

	N{1-255}-{1-6}-{1-20}-{1-24}-CH{0-1}-VP{1-4095} N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-VP{1-4095} N{1-255}-{1-6}-{CSA,CSB}-{1}-ALL N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-ALL N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-VP{1-4095}
VrAid	N{1-255}-{1-5}-VR{1-20}
VrAid-ALL	N{1-255}-{1-5}-VR{1-20}-ALL
VrEpIdxAid	N{1-255}-{1-5}-VR{1-20}-{1-7960}
VrRngAid	ALL N{1-255}-ALL N{1-255}-{1-5}-ALL N{1-255}-{1-5}-VR{1-20}
VrpAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-VRP
VrpNtwkRngAid	ALL N{1-255}-ALL N{1-255}-{1-5}-ALL N{1-255}-{1-5}-{1-20}-ALL N{1-255}-{1-5}-{1-20}-{1-4}-ALL N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-ALL N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-VRP
VspId	
VspPortAid	N{1-255}-{1-6}-{1-20}-VSP{1-2}
VspPortNtwkRngAid	ALL N{1-255}-ALL N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20}-ALL N{1-255}-{1-6}-{1-20}-VSP{1-2}
VspPortRngAid	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20}-ALL N{1-255}-{1-6}-{1-20}-VSP{1-2}
VtiAid	N{1-255}-{1-6}-VTI{1-80}
VtiRngAid	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-VTI{1-80}
XLanAid	XLAN{1-100}
XLanRngAid	ALL XLAN{1-100}

ApId

AID	Patterns
AtmRscPortAid	N{1-255}-{1-6}-{1-20}-AP{1-16}
NodeAllAid	N{1-255}-ALL
ShelfAid-ALL	N{1-255}-{1-5}-ALL
SlotLuAid-ALL	N{1-255}-{1-5}-{1-20}-ALL

BwlinkId

AID	Patterns
LinkBwcAid	N{1-255}-{1-6}-{1-20}-IMA{1-16}-BWC{1-100,TDM,VOD} N{1-255}-{1-6}-{1-20}-{1-12}-BWC{1-100,TDM,VOD} N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-BWC{1-100,TDM,VOD} N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-BWC{1-100,TDM,VOD}
LinkBwcVidSubAid	N{1-255}-{1-6}-{1-20}-{1-24}-CH{0-1}-BWC{VIDSUB} N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-24}-BWC{VIDSUB}

BwlinkId1

AID	Patterns
AdslChAid-ALL	N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}-ALL
LinkBwcRngAid	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20,CSA,CSB}-ALL N{1-255}-{1-6}-{1-20}-IMA{1-16}-ALL N{1-255}-{1-6}-{1-20}-IMA{1-16}-BWC{1-100,TDM,VOD} N{1-255}-{1-6}-{1-20}-{1-12}-ALL N{1-255}-{1-6}-{1-20}-{1-12}-BWC{1-100,TDM,VOD} N{1-255}-{1-6}-{1-20}-{1-24}-CH{0-1}-BWC{VIDSUB} N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-BWC{1-100,TDM,VOD} N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-24}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-24}-BWC{VIDSUB} N{1-255}-{1-6}-{CSA,CSB}-{1}-ALL N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-ALL N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-

CvidregId

AID	Patterns
CVidRegAid	N{1-255}-{1-5}-VB{1-20}-{1-20}-{1-6}- {UNTAGGED,2-4094,DFLT} N{1-255}-{1-5}-VB{1-20}-{1-7960}-{ {UNTAGGED,2-4094,DFLT}}
CVidRegRngAid	N{1-255}-{1-5}-VB{1-20}-{1-20}-{1-6}-ALL N{1-255}-{1-5}-VB{1-20}-{1-7960}-ALL

EquipmentId

AID	Patterns
SlotCsAid	N{1-255}-{1-5}-{CSA,CSB}
SlotFtAid	N{1-255}-{1-5}-FT
SlotLuAid	N{1-255}-{1-5}-{1-20}
SlotMsAid	N{1-255}-{1-5}-MS
SlotMspAid	N{1-255}-{1-5}-MSP{A,B}

EquipmentId1

AID	Patterns
ShelfAid-ALL	N{1-255}-{1-5}-ALL
SlotCsAid	N{1-255}-{1-5}-{CSA,CSB}
SlotFtAid	N{1-255}-{1-5}-FT
SlotLuAid	N{1-255}-{1-5}-{1-20}
SlotMsAid	N{1-255}-{1-5}-MS
SlotMspAid	N{1-255}-{1-5}-MSP{A,B}

EquipmentId2

AID	Patterns
-ALL	ALL
NodeAllAid	N{1-255}-ALL
ShelfAid-ALL	N{1-255}-{1-5}-ALL
SlotCsAid	N{1-255}-{1-5}-{CSA,CSB}
SlotLuAid	N{1-255}-{1-5}-{1-20}

EquipmentId3

AID	Patterns
SlotCsAid	N{1-255}-{1-5}-{CSA,CSB}
SlotLuAid	N{1-255}-{1-5}-{1-20}

EquipmentId6

AID	Patterns
NoneAid	NONE
SlotCsAid	N{1-255}-{1-5}-{CSA,CSB}
SlotLuAid	N{1-255}-{1-5}-{1-20}

EquipmentId7

AID	Patterns
-ALL	ALL
NodeAllAid	N{1-255}-ALL
ShelfAid-ALL	N{1-255}-{1-5}-ALL
SlotCsAid	N{1-255}-{1-5}-{CSA,CSB}
SlotFtAid	N{1-255}-{1-5}-FT
SlotLuAid	N{1-255}-{1-5}-{1-20}
SlotMsAid	N{1-255}-{1-5}-MS
SlotMspAid	N{1-255}-{1-5}-MSP{A,B}

EthId

AID	Patterns
SixPortLuAid	N{1-255}-{1-6}-{1-20}-{1-6}
TwelvePortLuAid	N{1-255}-{1-6}-{1-20}-{1-12} N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-12}

EthId1

AID	Patterns
SixPortLuRngAid	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20}-ALL

	N{1-255}-{1-6}-{1-20}-{1-6}
TwelvePortLuRngAid	N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20}-ALL N{1-255}-{1-6}-{1-20}-{1-12} N{1-255}-{1-6}-{1-20}-{1-4}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-12}

EthId3

AID	Patterns
IfConfigAid	N{1-255}-{1-6}-MS-{E1,E2,E3}
TwelvePortLuOrIrcPpAid	N{1-255}-{1-6}-{1-20}-PP{1-2} N{1-255}-{1-6}-{1-20}-{1-12} N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-12}
VbEpSysIdxAid	N{1-255}-{1-5}-VB{1-20}-{7961-65535}
VbPortAid	N{1-255}-{1-5}-VB{1-20}-{1-20}-{1-6} N{1-255}-{1-5}-VB{1-20}-{1-7960}

EthId5

AID	Patterns
IfConfigAid	N{1-255}-{1-6}-MS-{E1,E2,E3}
TwelvePortLuOrIrcPpInitRngAid	N{1-255}-{1-6}-{1-20}-ALL N{1-255}-{1-6}-{1-20}-PP{1-2} N{1-255}-{1-6}-{1-20}-{1-12} N{1-255}-{1-6}-{1-20}-{1-4}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-12}
VbAid-ALL	N{1-255}-{1-5}-VB{1-20}-ALL
VbEpSysIdxAid	N{1-255}-{1-5}-VB{1-20}-{7961-65535}
VbPortAid	N{1-255}-{1-5}-VB{1-20}-{1-20}-{1-6} N{1-255}-{1-5}-VB{1-20}-{1-7960}

HostId

AID	Patterns
IgAid	N{1-255}-{1-6}-IG{1-15}
SlotMsAid	N{1-255}-{1-5}-MS

VrAid	N{1-255}-{1-5}-VR{1-20}
VspPortAid	N{1-255}-{1-6}-{1-20}-VSP{1-2}

HostId1

AID	Patterns
IgAid	N{1-255}-{1-6}-IG{1-15}
SlotLuAid	N{1-255}-{1-5}-{1-20}
VrAid	N{1-255}-{1-5}-VR{1-20}
VspPortAid	N{1-255}-{1-6}-{1-20}-VSP{1-2}

HostId3

AID	Patterns
IgAid	N{1-255}-{1-6}-IG{1-15}
SlotLuAid	N{1-255}-{1-5}-{1-20}
SlotMsAid	N{1-255}-{1-5}-MS
VrAid	N{1-255}-{1-5}-VR{1-20}
VspPortAid	N{1-255}-{1-6}-{1-20}-VSP{1-2}

HostId4

AID	Patterns
E3Aid	N{1-255}-{1-5}-MS-E3
ImaGrpAid	N{1-255}-{1-6}-{1-20}-IMA{1-16}
L2IfAid	N{1-255}-{1-5}-{1-20}-IMA{1-16}-VP{0-4095}-VC{32-65535} N{1-255}-{1-5}-{1-20}-PP{1-2}-VP{0-4095}-VC{32-65535} N{1-255}-{1-5}-{1-20}-{1-12}-VP{0-4095}-VC{32-65535} N{1-255}-{1-5}-{1-20}-{1-24} N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}-VP{0-4095}-VC{32-32767} N{1-255}-{1-5}-{1-20}-{1-4}-{1-48}-VP{0-4095}-VC{32-65535} N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12}-{1-12} N{1-255}-{1-5}-{CSA,CSB}-PP{1-2}-VP{0-4095}-VC{32-65535} N{1-255}-{1-5}-{CSA,CSB}-{1}-{1-48}-VP{0-4095}-VC{32-65535} N{1-255}-{1-6}-{CSA,CSB}-{1}

OntPortAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-24}
PpAid	N{1-255}-{1-6}-{1-20,CSA,CSB}-PP{1-2}
SipT0PortAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-SIP{1-12}
VbPortAid	N{1-255}-{1-5}-VB{1-20}-{1-20}-{1-6} N{1-255}-{1-5}-VB{1-20}-{1-7960}
VcImaGrpAid	N{1-255}-{1-5}-{1-20}-AP{1-16}-VP{0-4095}- VC{32-65535} N{1-255}-{1-5}-{1-20}-IMA{1-16}-VP{0- 4095}-VC{32-65535}
VrEpIdxAid	N{1-255}-{1-5}-VR{1-20}-{1-7960}

JoinId

AID	Patterns
VbAid	N{1-255}-{1-5}-VB{1-20}
VbPortAid	N{1-255}-{1-5}-VB{1-20}-{1-20}-{1-6} N{1-255}-{1-5}-VB{1-20}-{1-7960}

LeaseId

AID	Patterns
ImaGrpAid	N{1-255}-{1-6}-{1-20}-IMA{1-16}
OntPortAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-24}
PpAid	N{1-255}-{1-6}-{1-20,CSA,CSB}-PP{1-2}
SixPortLuAid	N{1-255}-{1-6}-{1-20}-{1-6}
TwentyFourPortLuAid	N{1-255}-{1-6}-{1-20}-{1-24} N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-24}

LinkId

AID	Patterns
Vc12PortAid	N{1-255}-{1-5}-{1-20}-{1-12}-VP{0-4095}- VC{32-65535}
VcCsStsAid	N{1-255}-{1-5}-{CSA,CSB}-{1}-{1-48}-VP{0- 4095}-VC{20,32-65535}
VcImaGrpAid	N{1-255}-{1-5}-{1-20}-AP{1-16}-VP{0-4095}- VC{32-65535} N{1-255}-{1-5}-{1-20}-IMA{1-16}-VP{0- 4095}-VC{32-65535}
VcLuStsAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-48}-VP{0- 4095}-VC{20,32-65535}

NodeId

AID	Patterns
-ALL	ALL
NodeAid	N{1-255}

OntId

AID	Patterns
IgAid	N{1-255}-{1-6}-IG{1-15}
NoneAid	NONE

OntId2

AID	Patterns
OntProfAid	{1-50}
OntProfSystemAid	ONT710 ONT711 ONT712 ONT714 ONT720 ONT721 ONT722 ONT724 ONT740

OntId3

AID	Patterns
-ALL	ALL
OntProfAid	{1-50}
OntProfSystemAid	ONT710 ONT711 ONT712 ONT714 ONT720 ONT721 ONT722 ONT724 ONT740

PortId

AID	Patterns
AtmRscPortAid	N{1-255}-{1-6}-{1-20}-AP{1-16}
SixPortLuAid	N{1-255}-{1-6}-{1-20}-{1-6}

PplId1

AID	Patterns
PplBrAid	N{1-255}-{1-6}-{1-20}-{1-4}-{1-65536} N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-65536}
PplUnbrAid	N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-PPL{1-255}-{1-6}-{1-65536} N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-PPL{1-255}-{1-6}-{1-65536}

PppoehostId

AID	Patterns
L2IfAid	N{1-255}-{1-5}-{1-20}-IMA{1-16}-VP{0-4095}-VC{32-65535} N{1-255}-{1-5}-{1-20}-PP{1-2}-VP{0-4095}-VC{32-65535} N{1-255}-{1-5}-{1-20}-{1-12}-VP{0-4095}-VC{32-65535} N{1-255}-{1-5}-{1-20}-{1-24} N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}-VP{0-4095}-VC{32-32767} N{1-255}-{1-5}-{1-20}-{1-4}-{1-48}-VP{0-4095}-VC{32-65535} N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12}-{1-12} N{1-255}-{1-5}-{CSA,CSB}-PP{1-2}-VP{0-4095}-VC{32-65535} N{1-255}-{1-5}-{CSA,CSB}-{1}-{1-48}-VP{0-4095}-VC{32-65535} N{1-255}-{1-6}-{CSA,CSB}-{1}
VbPortAid	N{1-255}-{1-5}-VB{1-20}-{1-20}-{1-6} N{1-255}-{1-5}-VB{1-20}-{1-7960}

RmtdevId

AID	Patterns
E3Aid	N{1-255}-{1-5}-MS-E3
TwelvePortLuAid	N{1-255}-{1-6}-{1-20}-{1-12} N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-12}

RouteId

AID	Patterns
MsAid	N{1-255}-{1-6}-MS
RouterAid	N{1-255}-{1-5}-VR{1-20} N{1-255}-{1-5}-{1-20}

RouteId1

AID	Patterns
RouterAid	N{1-255}-{1-5}-VR{1-20} N{1-255}-{1-5}-{1-20}
SlotMsAid	N{1-255}-{1-5}-MS

SecurityId

AID	Patterns
MsAid	N{1-255}-{1-6}-MS
SysAid	SYS

SecurityId1

AID	Patterns
MsAid	N{1-255}-{1-6}-MS
SysAid	SYS
UserAid	{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9} {A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9} {A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9} {A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9} {A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9} {A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9} {A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}

$\{A-Z,0-9\}\{A-Z,0-9\}\{A-Z,0-9\}\{A-Z,0-9\}\{A-Z,0-9\}\{A-Z,0-9\}\{A-Z,0-9\}$

SfpId3

AID	Patterns
-ALL	ALL
FourPortLuRngAid	N{1-255}-{1-5}-{1-20}-ALL N{1-255}-{1-5}-{1-20}-{1-4}
NodeAllAid	N{1-255}-ALL
ShelfAid-ALL	N{1-255}-{1-5}-ALL

ShelfId

AID	Patterns
-ALL	ALL
NodeAllAid	N{1-255}-ALL
ShelfAid	N{1-255}-{1-5}

SipId1

AID	Patterns
ShelfAid-ALL	N{1-255}-{1-5}-ALL
SipT0PortAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-SIP{1-12}
SlotLuAid	N{1-255}-{1-5}-{1-20}

SystemId

AID	Patterns
OntAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}
ShelfAid-ALL	N{1-255}-{1-5}-ALL
SlotCsAid	N{1-255}-{1-5}-{CSA,CSB}
SlotFtAid	N{1-255}-{1-5}-FT
SlotLuAid	N{1-255}-{1-5}-{1-20}
SlotMsAid	N{1-255}-{1-5}-MS
SlotMspAid	N{1-255}-{1-5}-MSP{A,B}

SystemId1

AID	Patterns
NoneAid	NONE
OntProfAid	{1-50}
OntProfSystemAid	ONT710 ONT711 ONT712 ONT714 ONT720 ONT721 ONT722 ONT724 ONT740

T0Id

AID	Patterns
CrsT0DstAid	N{1-255}-{1-6}-IG{1-15}-{1-2048} N{1-255}-{1-6}-{1-20}-{1-12}-{1-24} N{1-255}-{1-6}-{1-20}-{1-24} N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-24} N{1-255}-{1-6}-{1-20}-{1-6}-{PR,EC}
SipVcgNextIndexAid	N{1-255}-{1-6}-IG{1-15}-NEXT

T1Id

AID	Patterns
-ALL	ALL
AtmRscPortAid	N{1-255}-{1-6}-{1-20}-AP{1-16}
NodeAllAid	N{1-255}-ALL
ShelfAid-ALL	N{1-255}-{1-5}-ALL
SlotLuAid-ALL	N{1-255}-{1-5}-{1-20}-ALL

TrfId

AID	Patterns
AtmTrfProfProvAid	{1-500}
AtmTrfProfSysAid	AAL2-DS0X2 AAL2-DS0X4 AAL2-DS0X8 ATMOAM CRPRCVC

G711_10MS
G711_10MSAGG
G711_20MS
G711_20MSAGG
H248CTRL
INBANDMGMT
ORPCTL
SIPVCGCTRL
SIP_10MS
SIP_10MS3WAY
SIP_20MS
SIP_20MS3WAY
T1
TDM
UBR

TrfId1

AID	Patterns
-ALL	ALL
AtmTrfProfProvAid	{1-500}
AtmTrfProfSysAid	AAL2-DS0X2 AAL2-DS0X4 AAL2-DS0X8 ATMOAM CRPRCVC G711_10MS G711_10MSAGG G711_20MS G711_20MSAGG H248CTRL INBANDMGMT ORPCTL SIPVCGCTRL SIP_10MS SIP_10MS3WAY SIP_20MS SIP_20MS3WAY T1 TDM UBR

VcId

AID	Patterns
E3Aid	N{1-255}-{1-5}-MS-E3
OntEthEpIdxAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12}-

	{1-12,20-30}
Vc12PortAid	N{1-255}-{1-5}-{1-20}-{1-12}-VP{0-4095}-VC{32-65535}
VcAdslChAid	N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}-VP{0-255}-VC{32-32767}
VcCsPpAid	N{1-255}-{1-5}-{CSA,CSB}-PP{1-2}-VP{0-4095}-VC{32-65535}
VcCsStsAid	N{1-255}-{1-5}-{CSA,CSB}-{1}-{1-48}-VP{0-4095}-VC{20,32-65535}
VcImaGrpAid	N{1-255}-{1-5}-{1-20}-AP{1-16}-VP{0-4095}-VC{32-65535} N{1-255}-{1-5}-{1-20}-IMA{1-16}-VP{0-4095}-VC{32-65535}
VcLuPpAid	N{1-255}-{1-5}-{1-20}-PP{1-2}-VP{0-4095}-VC{32-65535}
VcLuStsAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-48}-VP{0-4095}-VC{20,32-65535}

VcId1

AID	Patterns
E3Aid	N{1-255}-{1-5}-MS-E3
OntEthEpIdxAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12}-{1-12,20-30}
Vc12PortAid	N{1-255}-{1-5}-{1-20}-{1-12}-VP{0-4095}-VC{32-65535}
VcAdslChAid	N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}-VP{0-255}-VC{32-32767}
VcCsPpAid	N{1-255}-{1-5}-{CSA,CSB}-PP{1-2}-VP{0-4095}-VC{32-65535}
VcCsStsAid	N{1-255}-{1-5}-{CSA,CSB}-{1}-{1-48}-VP{0-4095}-VC{20,32-65535}
VcImaGrpAid	N{1-255}-{1-5}-{1-20}-AP{1-16}-VP{0-4095}-VC{32-65535} N{1-255}-{1-5}-{1-20}-IMA{1-16}-VP{0-4095}-VC{32-65535}
VcLuPpAid	N{1-255}-{1-5}-{1-20}-PP{1-2}-VP{0-4095}-VC{32-65535}
VcLuStsAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-48}-VP{0-4095}-VC{20,32-65535}
VcSysAid	N{1-255}-{1-5}-SYS-{1-2}-VP{0-4095}-VC{32-65535}

VcId11

AID	Patterns
E3Aid	N{1-255}-{1-5}-MS-E3
IgCtrlLinkAid	N{1-255}-{1-6}-IG{1-15}-{PRI,SEC}
OntEthEpIdxAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12}-{1-12,20-30}
VbEpIdxAid	N{1-255}-{1-5}-VB{1-20}-{1-7960}
VbEpSysIdxAid	N{1-255}-{1-5}-VB{1-20}-{7961-65535}
Vc12PortAid	N{1-255}-{1-5}-{1-20}-{1-12}-VP{0-4095}-VC{32-65535}
VcAdslChAid	N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}-VP{0-255}-VC{32-32767}
VcCsPpAid	N{1-255}-{1-5}-{CSA,CSB}-PP{1-2}-VP{0-4095}-VC{32-65535}
VcCsStsAid	N{1-255}-{1-5}-{CSA,CSB}-{1}-{1-48}-VP{0-4095}-VC{20,32-65535}
VcImaGrpAid	N{1-255}-{1-5}-{1-20}-AP{1-16}-VP{0-4095}-VC{32-65535} N{1-255}-{1-5}-{1-20}-IMA{1-16}-VP{0-4095}-VC{32-65535}
VcLuPpAid	N{1-255}-{1-5}-{1-20}-PP{1-2}-VP{0-4095}-VC{32-65535}
VcLuStsAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-48}-VP{0-4095}-VC{20,32-65535}
VcSysAid	N{1-255}-{1-5}-SYS-{1-2}-VP{0-4095}-VC{32-65535}
VrEpIdxAid	N{1-255}-{1-5}-VR{1-20}-{1-7960}
VrpAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-VRP
VspPortAid	N{1-255}-{1-6}-{1-20}-VSP{1-2}

VcId12

AID	Patterns
E3Aid	N{1-255}-{1-5}-MS-E3
OntEthEpIdxAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12}-{1-12,20-30}
VbEpIdxAid	N{1-255}-{1-5}-VB{1-20}-{1-7960}
Vc12PortAid	N{1-255}-{1-5}-{1-20}-{1-12}-VP{0-4095}-VC{32-65535}
Vc6PortAid	N{1-255}-{1-5}-{1-20}-{1-6}-VP{0-4095}-VC{32-65535}
VcAdslChAid	N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}-VP{0-255}-VC{32-32767}
VcCsPpAid	N{1-255}-{1-5}-{CSA,CSB}-PP{1-2}-VP{0-4095}-VC{32-65535}
VcCsStsAid	N{1-255}-{1-5}-{CSA,CSB}-{1}-{1-48}-VP{0-4095}-VC{20,32-65535}

VcImaGrpAid	N{1-255}-{1-5}-{1-20}-AP{1-16}-VP{0-4095}-VC{32-65535} N{1-255}-{1-5}-{1-20}-IMA{1-16}-VP{0-4095}-VC{32-65535}
VcLuPpAid	N{1-255}-{1-5}-{1-20}-PP{1-2}-VP{0-4095}-VC{32-65535}
VcLuStsAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-48}-VP{0-4095}-VC{20,32-65535}
VrEpIdxAid	N{1-255}-{1-5}-VR{1-20}-{1-7960}
VrpAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-VRP

VcId13

AID	Patterns
AdslChAid-ALL	N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}-ALL
E3Aid	N{1-255}-{1-5}-MS-E3
IgCtrlLinkAid	N{1-255}-{1-6}-IG{1-15}-{PRI,SEC}
ImaGrpAid-ALL	N{1-255}-{1-5}-{1-20}-IMA{1-16}-ALL
MsRngAid	N{1-255}-{1-5}-MS-ALL
OntAid-ALL	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-ALL
OntEthEpIdxAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12}-{1-12,20-30}
OntEthEpIdxAid-ALL	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12}-ALL
OntPortAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-24}
OntPortRngAid	N{1-255}-{1-5}-ALL N{1-255}-{1-5}-{1-20}-ALL N{1-255}-{1-5}-{1-20}-{1-4}-ALL N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-ALL N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-24}
PortCsAid-ALL	N{1-255}-{1-5}-{CSA,CSB}-{1}-ALL
PortLuAid-ALL	N{1-255}-{1-5}-{1-20}-{1-24}-ALL
PpCsAid-ALL	N{1-255}-{1-5}-{CSA,CSB}-PP{1-2}-ALL
PpLuAid-ALL	N{1-255}-{1-5}-{1-20}-PP{1-2}-ALL
ShelfAid-ALL	N{1-255}-{1-5}-ALL
SipT0PortAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-SIP{1-12}
SlotCsAid-ALL	N{1-255}-{1-5}-{CSA,CSB}-ALL
SlotLuAid-ALL	N{1-255}-{1-5}-{1-20}-ALL
StsCsAid-ALL	N{1-255}-{1-5}-{CSA,CSB}-{1}-{1-48}-ALL
StsLuAid-ALL	N{1-255}-{1-5}-{1-20}-{1-4}-{1-48}-ALL
VbAid-ALL	N{1-255}-{1-5}-VB{1-20}-ALL
VbEpIdxAid	N{1-255}-{1-5}-VB{1-20}-{1-7960}
VbEpSysIdxAid	N{1-255}-{1-5}-VB{1-20}-{7961-65535}
Vc12PortAid	N{1-255}-{1-5}-{1-20}-{1-12}-VP{0-4095}-VC{32-65535}

VcAdslChAid	N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}-VP{0-255}-VC{32-32767}
VcCsPpAid	N{1-255}-{1-5}-{CSA,CSB}-PP{1-2}-VP{0-4095}-VC{32-65535}
VcCsStsAid	N{1-255}-{1-5}-{CSA,CSB}-{1}-{1-48}-VP{0-4095}-VC{20,32-65535}
VcImaGrpRngAid	N{1-255}-{1-5}-{1-20}-AP{1-16}-ALL N{1-255}-{1-5}-{1-20}-AP{1-16}-VP{0-4095}-ALL N{1-255}-{1-5}-{1-20}-AP{1-16}-VP{0-4095}-VC{32-65535} N{1-255}-{1-5}-{1-20}-IMA{1-16}-ALL N{1-255}-{1-5}-{1-20}-IMA{1-16}-VP{0-4095}-ALL N{1-255}-{1-5}-{1-20}-IMA{1-16}-VP{0-4095}-VC{32-65535}
VcLuPpAid	N{1-255}-{1-5}-{1-20}-PP{1-2}-VP{0-4095}-VC{32-65535}
VcLuStsAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-48}-VP{0-4095}-VC{20,32-65535}
VcSysAid	N{1-255}-{1-5}-SYS-{1-2}-VP{0-4095}-VC{32-65535}
VrAid-ALL	N{1-255}-{1-5}-VR{1-20}-ALL
VrEpIdxAid	N{1-255}-{1-5}-VR{1-20}-{1-7960}
VrpAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-VRP
VspPortAid	N{1-255}-{1-6}-{1-20}-VSP{1-2}

VcId14

AID	Patterns
E3Aid	N{1-255}-{1-5}-MS-E3
IgCtrlLinkAid	N{1-255}-{1-6}-IG{1-15}-{PRI,SEC}
OntEthEpIdxAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12}-{1-12,20-30}
SipT0PortAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-SIP{1-12}
VbEpIdxAid	N{1-255}-{1-5}-VB{1-20}-{1-7960}
VbEpSysIdxAid	N{1-255}-{1-5}-VB{1-20}-{7961-65535}
Vc12PortAid	N{1-255}-{1-5}-{1-20}-{1-12}-VP{0-4095}-VC{32-65535}
Vc6PortAid	N{1-255}-{1-5}-{1-20}-{1-6}-VP{0-4095}-VC{32-65535}
VcAdslChAid	N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}-VP{0-255}-VC{32-32767}
VcCsPpAid	N{1-255}-{1-5}-{CSA,CSB}-PP{1-2}-VP{0-4095}-VC{32-65535}
VcCsStsAid	N{1-255}-{1-5}-{CSA,CSB}-{1}-{1-48}-VP{0-

	4095}-VC{20,32-65535}
VcImaGrpAid	N{1-255}-{1-5}-{1-20}-AP{1-16}-VP{0-4095}- VC{32-65535} N{1-255}-{1-5}-{1-20}-IMA{1-16}-VP{0- 4095}-VC{32-65535}
VcLuPpAid	N{1-255}-{1-5}-{1-20}-PP{1-2}-VP{0-4095}- VC{32-65535}
VcLuStsAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-48}-VP{0- 4095}-VC{20,32-65535}
VcSysAid	N{1-255}-{1-5}-SYS-{1-2}-VP{0-4095}-VC{32- 65535}
VrEpIdxAid	N{1-255}-{1-5}-VR{1-20}-{1-7960}
VrpAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-VRP
VspPortAid	N{1-255}-{1-6}-{1-20}-VSP{1-2}

VcId16

AID	Patterns
E3Aid	N{1-255}-{1-5}-MS-E3
OntEthEpIdxAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12}-{ 1-12,20-30}
SipT0PortAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-SIP{1-12}
VbEpIdxAid	N{1-255}-{1-5}-VB{1-20}-{1-7960}
VbEpSysIdxAid	N{1-255}-{1-5}-VB{1-20}-{7961-65535}
Vc12PortAid	N{1-255}-{1-5}-{1-20}-{1-12}-VP{0-4095}- VC{32-65535}
Vc6PortAid	N{1-255}-{1-5}-{1-20}-{1-6}-VP{0-4095}- VC{32-65535}
VcAdslChAid	N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}-VP{0- 255}-VC{32-32767}
VcCsPpAid	N{1-255}-{1-5}-{CSA,CSB}-PP{1-2}-VP{0- 4095}-VC{32-65535}
VcCsStsAid	N{1-255}-{1-5}-{CSA,CSB}-{1}-{1-48}-VP{0- 4095}-VC{20,32-65535}
VcImaGrpAid	N{1-255}-{1-5}-{1-20}-AP{1-16}-VP{0-4095}- VC{32-65535} N{1-255}-{1-5}-{1-20}-IMA{1-16}-VP{0- 4095}-VC{32-65535}
VcLuPpAid	N{1-255}-{1-5}-{1-20}-PP{1-2}-VP{0-4095}- VC{32-65535}
VcLuStsAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-48}-VP{0- 4095}-VC{20,32-65535}
VcSysAid	N{1-255}-{1-5}-SYS-{1-2}-VP{0-4095}-VC{32- 65535}
VrEpIdxAid	N{1-255}-{1-5}-VR{1-20}-{1-7960}
VrpAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-VRP

VcId17

AID	Patterns
E3Aid	N{1-255}-{1-5}-MS-E3
OntEthEpIdxAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12}-{1-12,20-30}
OntPortAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-24}
VbEpIdxAid	N{1-255}-{1-5}-VB{1-20}-{1-7960}
VbEpSysIdxAid	N{1-255}-{1-5}-VB{1-20}-{7961-65535}
Vc12PortAid	N{1-255}-{1-5}-{1-20}-{1-12}-VP{0-4095}-VC{32-65535}
VcAdslChAid	N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}-VP{0-255}-VC{32-32767}
VcCsPpAid	N{1-255}-{1-5}-{CSA,CSB}-PP{1-2}-VP{0-4095}-VC{32-65535}
VcCsStsAid	N{1-255}-{1-5}-{CSA,CSB}-{1}-{1-48}-VP{0-4095}-VC{20,32-65535}
VcImaGrpAid	N{1-255}-{1-5}-{1-20}-AP{1-16}-VP{0-4095}-VC{32-65535} N{1-255}-{1-5}-{1-20}-IMA{1-16}-VP{0-4095}-VC{32-65535}
VcLuPpAid	N{1-255}-{1-5}-{1-20}-PP{1-2}-VP{0-4095}-VC{32-65535}
VcLuStsAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-48}-VP{0-4095}-VC{20,32-65535}
VcSysAid	N{1-255}-{1-5}-SYS-{1-2}-VP{0-4095}-VC{32-65535}
VrEpIdxAid	N{1-255}-{1-5}-VR{1-20}-{1-7960}

VcId2

AID	Patterns
VcCsStsAid	N{1-255}-{1-5}-{CSA,CSB}-{1}-{1-48}-VP{0-4095}-VC{20,32-65535}
VcLuStsAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-48}-VP{0-4095}-VC{20,32-65535}

VcId3

AID	Patterns
E3Aid	N{1-255}-{1-5}-MS-E3

OntEthEpIdxAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12}- {1-12,20-30}
VbEpIdxAid	N{1-255}-{1-5}-VB{1-20}-{1-7960}
Vc12PortAid	N{1-255}-{1-5}-{1-20}-{1-12}-VP{0-4095}- VC{32-65535}
VcAdslChAid	N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}-VP{0- 255}-VC{32-32767}
VcCsPpAid	N{1-255}-{1-5}-{CSA,CSB}-PP{1-2}-VP{0- 4095}-VC{32-65535}
VcCsStsAid	N{1-255}-{1-5}-{CSA,CSB}-{1}-{1-48}-VP{0- 4095}-VC{20,32-65535}
VcImaGrpAid	N{1-255}-{1-5}-{1-20}-AP{1-16}-VP{0-4095}- VC{32-65535} N{1-255}-{1-5}-{1-20}-IMA{1-16}-VP{0- 4095}-VC{32-65535}
VcLuPpAid	N{1-255}-{1-5}-{1-20}-PP{1-2}-VP{0-4095}- VC{32-65535}
VcLuStsAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-48}-VP{0- 4095}-VC{20,32-65535}
VrEpIdxAid	N{1-255}-{1-5}-VR{1-20}-{1-7960}

VcId4

AID	Patterns
E3Aid	N{1-255}-{1-5}-MS-E3
IgCtrlLinkAid	N{1-255}-{1-6}-IG{1-15}-{PRI,SEC}
OntEthEpIdxAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12}- {1-12,20-30}
TsiVciAddr	N{1-255}-{1-5}-{1-20}-TSI-VP{0-4095}-VC{0- 65535}
VbEpIdxAid	N{1-255}-{1-5}-VB{1-20}-{1-7960}
Vc12PortAid	N{1-255}-{1-5}-{1-20}-{1-12}-VP{0-4095}- VC{32-65535}
VcAdslChAid	N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}-VP{0- 255}-VC{32-32767}
VcCsPpAid	N{1-255}-{1-5}-{CSA,CSB}-PP{1-2}-VP{0- 4095}-VC{32-65535}
VcCsStsAid	N{1-255}-{1-5}-{CSA,CSB}-{1}-{1-48}-VP{0- 4095}-VC{20,32-65535}
VcImaGrpAid	N{1-255}-{1-5}-{1-20}-AP{1-16}-VP{0-4095}- VC{32-65535} N{1-255}-{1-5}-{1-20}-IMA{1-16}-VP{0- 4095}-VC{32-65535}
VcLuPpAid	N{1-255}-{1-5}-{1-20}-PP{1-2}-VP{0-4095}- VC{32-65535}
VcLuStsAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-48}-VP{0- 4095}

	4095}-VC{20,32-65535}
VcSysAid	N{1-255}-{1-5}-SYS-{1-2}-VP{0-4095}-VC{32-65535}
VrEpIdxAid	N{1-255}-{1-5}-VR{1-20}-{1-7960}
VrpAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-VRP
VspPortAid	N{1-255}-{1-6}-{1-20}-VSP{1-2}

VcId5

AID	Patterns
E3Aid	N{1-255}-{1-5}-MS-E3
IgCtrlLinkAid	N{1-255}-{1-6}-IG{1-15}-{PRI,SEC}
OntEthEpIdxAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12}-{1-12,20-30}
VbEpIdxAid	N{1-255}-{1-5}-VB{1-20}-{1-7960}
Vc12PortAid	N{1-255}-{1-5}-{1-20}-{1-12}-VP{0-4095}-VC{32-65535}
VcAdslChAid	N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}-VP{0-255}-VC{32-32767}
VcCsPpAid	N{1-255}-{1-5}-{CSA,CSB}-PP{1-2}-VP{0-4095}-VC{32-65535}
VcCsStsAid	N{1-255}-{1-5}-{CSA,CSB}-{1}-{1-48}-VP{0-4095}-VC{20,32-65535}
VcImaGrpAid	N{1-255}-{1-5}-{1-20}-AP{1-16}-VP{0-4095}-VC{32-65535} N{1-255}-{1-5}-{1-20}-IMA{1-16}-VP{0-4095}-VC{32-65535}
VcLuPpAid	N{1-255}-{1-5}-{1-20}-PP{1-2}-VP{0-4095}-VC{32-65535}
VcLuStsAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-48}-VP{0-4095}-VC{20,32-65535}
VcSysAid	N{1-255}-{1-5}-SYS-{1-2}-VP{0-4095}-VC{32-65535}
VrEpIdxAid	N{1-255}-{1-5}-VR{1-20}-{1-7960}
VrpAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-VRP
VspPortAid	N{1-255}-{1-6}-{1-20}-VSP{1-2}

VcId6

AID	Patterns
E3Aid	N{1-255}-{1-5}-MS-E3
OntEthEpIdxAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12}-{1-12,20-30}
VbEpIdxAid	N{1-255}-{1-5}-VB{1-20}-{1-7960}

Vc12PortAid	N{1-255}-{1-5}-{1-20}-{1-12}-VP{0-4095}-VC{32-65535}
VcAdslChAid	N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}-VP{0-255}-VC{32-32767}
VcCsPpAid	N{1-255}-{1-5}-{CSA,CSB}-PP{1-2}-VP{0-4095}-VC{32-65535}
VcCsStsAid	N{1-255}-{1-5}-{CSA,CSB}-{1}-{1-48}-VP{0-4095}-VC{20,32-65535}
VcImaGrpAid	N{1-255}-{1-5}-{1-20}-AP{1-16}-VP{0-4095}-VC{32-65535} N{1-255}-{1-5}-{1-20}-IMA{1-16}-VP{0-4095}-VC{32-65535}
VcLuPpAid	N{1-255}-{1-5}-{1-20}-PP{1-2}-VP{0-4095}-VC{32-65535}
VcLuStsAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-48}-VP{0-4095}-VC{20,32-65535}
VrpAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-VRP

VcId7

AID	Patterns
E3Aid	N{1-255}-{1-5}-MS-E3
OntEthEpIdxAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12}-{1-12,20-30}
OntPortAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-24}
SixPortLuAid	N{1-255}-{1-6}-{1-20}-{1-6}
TsiVciAddr	N{1-255}-{1-5}-{1-20}-TSI-VP{0-4095}-VC{0-65535}
VbEpIdxAid	N{1-255}-{1-5}-VB{1-20}-{1-7960}
Vc12PortAid	N{1-255}-{1-5}-{1-20}-{1-12}-VP{0-4095}-VC{32-65535}
VcAdslChAid	N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}-VP{0-255}-VC{32-32767}
VcCsPpAid	N{1-255}-{1-5}-{CSA,CSB}-PP{1-2}-VP{0-4095}-VC{32-65535}
VcCsStsAid	N{1-255}-{1-5}-{CSA,CSB}-{1}-{1-48}-VP{0-4095}-VC{20,32-65535}
VcLuPpAid	N{1-255}-{1-5}-{1-20}-PP{1-2}-VP{0-4095}-VC{32-65535}
VcLuStsAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-48}-VP{0-4095}-VC{20,32-65535}
VcSysAid	N{1-255}-{1-5}-SYS-{1-2}-VP{0-4095}-VC{32-65535}
VrEpIdxAid	N{1-255}-{1-5}-VR{1-20}-{1-7960}

VcId8

AID	Patterns
E3Aid	N{1-255}-{1-5}-MS-E3
OntEthEpIdxAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12}-{1-12,20-30}
SipT0PortAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-SIP{1-12}
SixPortLuAid	N{1-255}-{1-6}-{1-20}-{1-6}
VbEpIdxAid	N{1-255}-{1-5}-VB{1-20}-{1-7960}
Vc12PortAid	N{1-255}-{1-5}-{1-20}-{1-12}-VP{0-4095}-VC{32-65535}
VcAdslChAid	N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}-VP{0-255}-VC{32-32767}
VcCsPpAid	N{1-255}-{1-5}-{CSA,CSB}-PP{1-2}-VP{0-4095}-VC{32-65535}
VcCsStsAid	N{1-255}-{1-5}-{CSA,CSB}-{1}-{1-48}-VP{0-4095}-VC{20,32-65535}
VcImaGrpAid	N{1-255}-{1-5}-{1-20}-AP{1-16}-VP{0-4095}-VC{32-65535} N{1-255}-{1-5}-{1-20}-IMA{1-16}-VP{0-4095}-VC{32-65535}
VcLuPpAid	N{1-255}-{1-5}-{1-20}-PP{1-2}-VP{0-4095}-VC{32-65535}
VcLuStsAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-48}-VP{0-4095}-VC{20,32-65535}
VcSysAid	N{1-255}-{1-5}-SYS-{1-2}-VP{0-4095}-VC{32-65535}
VrEpIdxAid	N{1-255}-{1-5}-VR{1-20}-{1-7960}

VcId9

AID	Patterns
Vc12PortAid	N{1-255}-{1-5}-{1-20}-{1-12}-VP{0-4095}-VC{32-65535}
VcAdslChAid	N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}-VP{0-255}-VC{32-32767}
VcCsPpAid	N{1-255}-{1-5}-{CSA,CSB}-PP{1-2}-VP{0-4095}-VC{32-65535}
VcCsStsAid	N{1-255}-{1-5}-{CSA,CSB}-{1}-{1-48}-VP{0-4095}-VC{20,32-65535}
VcLuPpAid	N{1-255}-{1-5}-{1-20}-PP{1-2}-VP{0-4095}-VC{32-65535}
VcLuStsAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-48}-VP{0-4095}-VC{20,32-65535}

VcglinkId

AID	Patterns
AllAlarmAid	ALL CMS N{1-255}-ENV{1-8} N{1-255}-{1-5}-VB{1-20} N{1-255}-{1-5}-VR{1-20} N{1-255}-{1-6}-ALL N{1-255}-{1-6}-ALM N{1-255}-{1-6}-DBCHG N{1-255}-{1-6}-FT N{1-255}-{1-6}-IG{1-15}-EOC N{1-255}-{1-6}-IG{1-15}-TMC N{1-255}-{1-6}-MS N{1-255}-{1-6}-MSP{A,B} N{1-255}-{1-6}-SECU N{1-255}-{1-6}-{1-20,CSA,CSB} N{1-255}-{1-6}-{1-20,CSA,CSB}-ALL N{1-255}-{1-6}-{1-20,CSA,CSB}-PP{1-2} N{1-255}-{1-6}-{1-20}-IMA{1-16}-ALL N{1-255}-{1-6}-{1-20}-IMA{1-16}-BWC{1-100,TDM,VOD} N{1-255}-{1-6}-{1-20}-{1-12}-BWC{1-100,TDM,VOD} N{1-255}-{1-6}-{1-20}-{1-24} N{1-255}-{1-6}-{1-20}-{1-24}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-48} N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-BWC{1-100,TDM,VOD} N{1-255}-{1-6}-{1-20}-{1-4}-{1-64} N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-24} N{1-255}-{1-6}-{CSA,CSB}-{1} N{1-255}-{1-6}-{CSA,CSB}-{1}-ALL N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48} N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-ALL N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-BWC{1-100,TDM,VOD} SYS
ImaGrpAid	N{1-255}-{1-6}-{1-20}-IMA{1-16}
StsAid	N{1-255}-{1-6}-{1-20}-{1-12}-{1-48} N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}
T3Aid	N{1-255}-{1-6}-{1-20}-{1-12}

VcglinkId2

AID	Patterns

ImaGrpAid	N{1-255}-{1-6}-{1-20}-IMA{1-16}
StsAid	N{1-255}-{1-6}-{1-20}-{1-12}-{1-48} N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}
T3Aid	N{1-255}-{1-6}-{1-20}-{1-12}

VidchanId

AID	Patterns
-ALL	ALL
IpAid	{0-255}.{0-255}.{0-255}.{0-255}

VidvcId

AID	Patterns
E3Aid	N{1-255}-{1-5}-MS-E3
OntEthEpIdxAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12}-{1-12,20-30}
VbEpIdxAid	N{1-255}-{1-5}-VB{1-20}-{1-7960}
Vc12PortAid	N{1-255}-{1-5}-{1-20}-{1-12}-VP{0-4095}-VC{32-65535}
VcAdslChAid	N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}-VP{0-255}-VC{32-32767}
VcCsPpAid	N{1-255}-{1-5}-{CSA,CSB}-PP{1-2}-VP{0-4095}-VC{32-65535}
VcCsStsAid	N{1-255}-{1-5}-{CSA,CSB}-{1}-{1-48}-VP{0-4095}-VC{20,32-65535}
VcImaGrpAid	N{1-255}-{1-5}-{1-20}-AP{1-16}-VP{0-4095}-VC{32-65535} N{1-255}-{1-5}-{1-20}-IMA{1-16}-VP{0-4095}-VC{32-65535}
VcLuPpAid	N{1-255}-{1-5}-{1-20}-PP{1-2}-VP{0-4095}-VC{32-65535}
VcLuStsAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-48}-VP{0-4095}-VC{20,32-65535}

VidvcId1

AID	Patterns
E3Aid	N{1-255}-{1-5}-MS-E3
OntEthEpIdxAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12}-{1-12,20-30}
VbEpIdxAid	N{1-255}-{1-5}-VB{1-20}-{1-7960}

VbEpSysIdxAid	N{1-255}-{1-5}-VB{1-20}-{7961-65535}
Vc12PortAid	N{1-255}-{1-5}-{1-20}-{1-12}-VP{0-4095}-VC{32-65535}
VcAdslChAid	N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}-VP{0-255}-VC{32-32767}
VcCsPpAid	N{1-255}-{1-5}-{CSA,CSB}-PP{1-2}-VP{0-4095}-VC{32-65535}
VcCsStsAid	N{1-255}-{1-5}-{CSA,CSB}-{1}-{1-48}-VP{0-4095}-VC{20,32-65535}
VcImaGrpAid	N{1-255}-{1-5}-{1-20}-AP{1-16}-VP{0-4095}-VC{32-65535} N{1-255}-{1-5}-{1-20}-IMA{1-16}-VP{0-4095}-VC{32-65535}
VcLuPpAid	N{1-255}-{1-5}-{1-20}-PP{1-2}-VP{0-4095}-VC{32-65535}
VcLuStsAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-48}-VP{0-4095}-VC{20,32-65535}

VidvcId3

AID	Patterns
OntEthEpIdxAid	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12}-{1-12,20-30}
OntEthEpIdxAid-ALL	N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12}-ALL
VbAid-ALL	N{1-255}-{1-5}-VB{1-20}-ALL
VbEpIdxAid	N{1-255}-{1-5}-VB{1-20}-{1-7960}
VbEpSysIdxAid	N{1-255}-{1-5}-VB{1-20}-{7961-65535}
VidVcRngAid	ALL N{1-255}-{1-6}-ALL N{1-255}-{1-6}-{1-20,CSA,CSB}-ALL N{1-255}-{1-6}-{1-20,CSA,CSB}-PP{1-2}-ALL N{1-255}-{1-6}-{1-20,CSA,CSB}-PP{1-2}-VP{0-4095}-VC{32-65535} N{1-255}-{1-6}-{1-20}-IMA{1-16}-ALL N{1-255}-{1-6}-{1-20}-IMA{1-16}-VP{0-4095}-VC{32-65535} N{1-255}-{1-6}-{1-20}-{1-12}-VP{0-4095}-VC{32-65535} N{1-255}-{1-6}-{1-20}-{1-24}-ALL N{1-255}-{1-6}-{1-20}-{1-24}-CH{0-1}-ALL N{1-255}-{1-6}-{1-20}-{1-24}-CH{0-1}-VP{0-4095}-VC{32-32767} N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-ALL N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-VP{0-4095}-VC{32-65535} N{1-255}-{1-6}-{CSA,CSB}-{1}-ALL N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-ALL

N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-VP{0-4095}-VC{32-65535}

VirtualBridgeId

AID	Patterns
NoneAid	NONE
VlanPortTmpltAid	{1-20}

VirtualBridgeId1

AID	Patterns
-ALL	ALL
NodeAllAid	N{1-255}-ALL
ShelfAid-ALL	N{1-255}-{1-5}-ALL
VbAid	N{1-255}-{1-5}-VB{1-20}

VirtualBridgePortId

AID	Patterns
VbEpSysIdxAid	N{1-255}-{1-5}-VB{1-20}-{7961-65535}
VbPortAid	N{1-255}-{1-5}-VB{1-20}-{1-20}-{1-6} N{1-255}-{1-5}-VB{1-20}-{1-7960}

VirtualBridgePortId1

AID	Patterns
VbEpSysIdxAid	N{1-255}-{1-5}-VB{1-20}-{7961-65535}
VbPortRngAid	N{1-255}-{1-5}-ALL N{1-255}-{1-5}-VB{1-20}-ALL N{1-255}-{1-5}-VB{1-20}-{1-20}-ALL N{1-255}-{1-5}-VB{1-20}-{1-20}-{1-6} N{1-255}-{1-5}-VB{1-20}-{1-7960}

VirtualBridgePortId2

AID	Patterns
VbEpNextAid	N{1-255}-{1-5}-VB{1-20}-NEXT

VbPortAid	N{1-255}-{1-5}-VB{1-20}-{1-20}-{1-6} N{1-255}-{1-5}-VB{1-20}-{1-7960}
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VirtualRouterId

AID	Patterns
-ALL	ALL
NodeAllAid	N{1-255}-ALL
ShelfAid-ALL	N{1-255}-{1-5}-ALL
VrAid	N{1-255}-{1-5}-VR{1-20}

VirtualRouterPortId1

AID	Patterns
-ALL	ALL
NodeAllAid	N{1-255}-ALL
ShelfAid-ALL	N{1-255}-{1-5}-ALL
VrAid-ALL	N{1-255}-{1-5}-VR{1-20}-ALL
VrEpIdxAid	N{1-255}-{1-5}-VR{1-20}-{1-7960}

VlanId

AID	Patterns
PacketVlanAid	N{1-255}-{1-5}-VB{1-20}-VLAN{1-4094}
VLanAid	XLAN{1-100}-VLAN{2-4094}

VlanId1

AID	Patterns
PacketVlanRngAid	N{1-255}-ALL N{1-255}-{1-5}-ALL N{1-255}-{1-5}-VB{1-20}-ALL N{1-255}-{1-5}-VB{1-20}-VLAN{1-4094}
VLanRngAid	XLAN{1-100}-ALL XLAN{1-100}-VLAN{2-4094}

VodsrcluId

AID	Patterns
SlotCsAid	N{1-255}-{1-5}-{CSA,CSB}
SlotLuAid	N{1-255}-{1-5}-{1-20}
VbAid	N{1-255}-{1-5}-VB{1-20}

VodsrcId1

AID	Patterns
-ALL	ALL
NodeAllAid	N{1-255}-ALL
ShelfAid-ALL	N{1-255}-{1-5}-ALL
SlotCsAid	N{1-255}-{1-5}-{CSA,CSB}
SlotLuAid	N{1-255}-{1-5}-{1-20}
VbAid	N{1-255}-{1-5}-VB{1-20}

VspId

AID	Patterns
IgVspAid	N{1-255}-{1-6}-IG{1-15}-{1-2}
IgVspRngAid	ALL N{1-255}-ALL N{1-255}-{1-6}-ALL N{1-255}-{1-6}-IG{1-15}-ALL N{1-255}-{1-6}-IG{1-15}-{1-28}

-ALL

-ALL Access Identifier. The address used for ranged requests of all entities in the entire C7 network.

Pattern	Description
ALL	ALL

AdslChAid

ADSL Channel Access Identifier.

Pattern	Description
N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}	ADSL Channel Format: node#-shelf#-slot#-port#-chan#

AdslChAid-ALL

Asynchronous Digital Subscriber Line Channel (-ALL) Access Identifier. The address used for ranged requests of all entities under an ADSL channel.

Pattern	Description
N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}-ALL	N{Node #}-{Shelf #}-{Slot #}-{Port #}-CH{Channel #}-ALL where the Channel # is one of the two logical channels within the DSL port

AllAlarmAid

The access identifier for entities within the system which can have an alarm raised against it.

Please see all other AIDS for format.

Pattern	Description
ALL	All alarms in the CMS and all networks it is managing. This AID pattern is not supported by the C7, only the Calix Management System.
CMS	All alarms in the CMS, not including those in the networks it is managing. This AID pattern is not supported by the C7, only the Calix Management System.
N{1-255}-ENV{1-8}	An environmental alarm in a node.
N{1-255}-{1-5}-VB{1-20}	Virtual Bridge
N{1-255}-{1-5}-VR{1-20}	Virtual Router
N{1-255}-{1-6}-ALL	All alarms on a shelf.
N{1-255}-{1-6}-ALM	The access identifier of the Alarm Log.
N{1-255}-{1-6}-DBCHG	The access identifier of the Database Change Log.
N{1-255}-{1-6}-FT	The address of the Fan Tray. This location can currently hold either the Fan Tray Assembly or the Display and Fan Tray Assembly.
N{1-255}-{1-6}-IG{1-15}-EOC	The address of the Embedded Operation Channel (EOC) for a GR-303 Interface Group.
N{1-255}-{1-6}-IG{1-15}-TMC	The address of the Time Slot Management Channel (TMC) for a GR-303 Interface Group.
N{1-255}-{1-6}-MS	The address of the Management/Maintenance Slot. This location can currently contain a Administrative and Maintenance Processor (AMP) or a Metallic Test Access Unit (MTAU).

N{1-255}-{1-6}-MSP{A,B}	The location of the Metallic Service Protection units. There can be two of these within the system.
N{1-255}-{1-6}-SECU	The access identifier of the Security Log.
N{1-255}-{1-6}-{1-20,CSA,CSB}	The address of the generic slots which can contain any of the line units or a RAP.
N{1-255}-{1-6}-{1-20,CSA,CSB}-ALL	All entities within a Line Unit.
N{1-255}-{1-6}-{1-20,CSA,CSB}-PP{1-2}	Pseudo-port. The access identifier of the form of (Node Id)-(Shelf #)-(Slot #)-PP(Port Id)
N{1-255}-{1-6}-{1-20}-IMA{1-16}-ALL	All alarms within an IMA group.
N{1-255}-{1-6}-{1-20}-IMA{1-16}-BWC{1-100,TDM,VOD}	Link Bandwidth Constraint on an IMA group.
N{1-255}-{1-6}-{1-20}-{1-12}-BWC{1-100,TDM,VOD}	Link Bandwidth Constraint on a port.
N{1-255}-{1-6}-{1-20}-{1-24}	The address of a port on a Line Unit.
N{1-255}-{1-6}-{1-20}-{1-24}-ALL	All entities within a port within a Line Unit.
N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}	STS path on an OCn Line Unit.
N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-ALL	All entities within an STS path in an OCn port.
N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-BWC{1-100,TDM,VOD}	Link Bandwidth Constraint on an STS path in an OCn card.
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}	An ONT address.
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-ALL	All ports on an Optical Network Termination (ONT).
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-24}	A port on an Optical Network Termination (ONT). Format = (Node Id)-(Shelf #)-(OLT Slot #)-(Pon #)-(ONT number)-(Port Id)
N{1-255}-{1-6}-{CSA,CSB}-{1}	The port on a RAP card.
N{1-255}-{1-6}-{CSA,CSB}-{1}-ALL	All entities within an OCn port on a RAP card.
N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}	An STS path on a RAP OCn port.

N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-ALL	All entities within an STS on a RAP card.
N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-BWC{1-100,TDM,VOD}	Link Bandwidth Constraint on an STS path in a RAP OCn port.
SYS	System-level Alarms, e.g. problems affecting user authentication.

AlmProfileAid

Alarm Profile Access Identifier. This identifies the set of Notification Codes to be used when reporting alarms. Used for OCn commands.

Pattern	Description
AISCR	<p>Alarm Indication Signal Critical. In the case of unprotected AIS:</p> <ul style="list-style-type: none"> • If a cross connection is created on the port, the alarm is reported as CR. • If no cross connection is created on the port, the alarm is reported as MN. <p>In the case of protected AIS:</p> <ul style="list-style-type: none"> • If no cross connection is created, the alarm is reported as MN. • If a cross connection is created: <ul style="list-style-type: none"> ◦ If one side has AIS, the alarm is reported as MN. ◦ If both sides have AIS, the alarm is reported as CR. <p>Note: RFI is reported as MN regardless of the protected/unprotected status.</p>
AISNR	Alarm Indication Signal Not Reported. Detection of AIS should be retrievable as a condition but should not generate an autonomous report. Note: RFI is not reported.
LOSNR	Loss Of Signal Not Reported. Detection of LOS should not generate an autonomous report.

AlmProfileStsAid

Alarm Profile Access Identifier. This identifies the set of Notification Codes to be used when reporting alarms. Used for STSn commands.

Pattern	Description
AISCR	<p>Alarm Indication Signal Critical. In the case of unprotected AIS:</p> <ul style="list-style-type: none"> • If a cross connection is created on the port, the alarm is reported as CR. • If no cross connection is created on the port, the alarm is reported as MN. <p>In the case of protected AIS:</p> <ul style="list-style-type: none"> • If no cross connection is created, the alarm is reported as MN. • If a cross connection is created: <ul style="list-style-type: none"> ◦ If one side has AIS, the alarm is reported as MN. ◦ If both sides have AIS, the alarm is reported as CR. <p>Note: RFI is reported as MN regardless of the protected/unprotected status.</p>
AISNR	Alarm Indication Signal Not Reported. Detection of AIS should be retrievable as a condition but should not generate an autonomous report. Note: RFI is not reported.

AtmRscPortAid

ATM Resource Port (AP) Identifier.

Pattern	Description
N{1-255}-{1-6}-{1-20}-AP{1-16}	ATM Resource Port. Format = (Node Id)-(Shelf #)-(Slot #)-AP(Port Id)

AtmTrfProfProvAid

ATM Provisioned Traffic Profile Access Identifier. This identifies the user-defined ATM traffic profiles.

Pattern	Description
{1-500}	User defined profiles.

AtmTrfProfSysAid

ATM System Traffic Profile Access Identifier. This identifies the ATM traffic profiles that are provided by the system.

Pattern	Description
AAL2-DS0X2	2 X ATM Adaptation Layer 2 (AAL2) DS0. This profile is used for transporting up to 2 DS0 connections over AAL2 within the C7 network.
AAL2-DS0X4	4 X ATM Adaptation Layer 2 (AAL2) DS0. This profile is used for transporting up to 4 DS0 connections over AAL2 within the C7 network.
AAL2-DS0X8	8 X ATM Adaptation Layer 2 (AAL2) DS0. This profile is used for transporting up to 8 DS0 connections over AAL2 within the C7 network.
ATMOAM	ATM OAM. This profile is used for internal ATM OAM PVCs. These are created by the system.
CRPRCVC	CRPR Control VC. This profile is used for internal CRPR control VCs. These are created by the system as part of the first unbridged protected VC cross-connect per logical ring.
G711_10MS	CBR profile with sufficient bandwidth to handle the VoIP traffic from one VSP when the VSP is running at capacity carrying all G.711 traffic using a 10ms packet interval.
G711_10MSAGG	Profile for use in VB to VB cross connect through the system. Pofile is GFR with 45Mb of bandwidth.
G711_20MS	CBR profile with sufficient bandwidth to handle the VoIP traffic from one VSP when the VSP is running at capacity carrying all G.711 traffic using a 20ms packet interval.
G711_20MSAGG	Profile for use in VB to VB cross connect through the system. Pofile is GFR with 45Mb of bandwidth.
H248CTRL	Traffic profile used when creating the GFR VC cross-connect which is the H.248 Control Link.
INBANDMGMT	In-Band Management. This is the traffic profile to be used when creating an In-Band Management PVC to the E3 port on a Management Slot.
ORPCTL	ORP Control. This profile is used for internal ORP control PVCs. These are created by the system for domains protected using the Optical Restoration Protocol.
SIPVCGCTRL	Traffic profile used when creating the VC cross-connect which is the SIP VCG Control Link.
SIP_10MS	Profile with sufficient bandwidth to handle the VoIP traffic using a 10ms packet interval.
SIP_10MS3WAY	Profile with sufficient bandwidth to handle the 3-way VoIP traffic using a 10ms packet interval.
SIP_20MS	Profile with sufficient bandwidth to handle the VoIP traffic using a 20ms packet interval.
SIP_20MS3WAY	Profile with sufficient bandwidth to handle the 3-way VoIP traffic using a 20ms packet interval.
T1	T1. This profile is used for async T1 connections when transporting through the C7 network.

TDM	TDM. This profile is used for transporting DS0 TDM connections within the C7 network.
UBR	Unspecified Bit Rate. This is the traffic profile for the UBR class of service.

BwcAid

Bandwidth Constraint Access Identifier. This identifies a Bandwidth Constraint within the C7 network.

Pattern	Description
TDM	Used when constraining TDM connections (ENT-CRS-T0) within the C7 system.
VIDSUB	Used when constraining Video Subscriber connections within the C7 system.
VOD	Used when constraining VOD connections within the C7 system.
{1-100}	User defined Bandwidth Constraints.

BwcIdNone

No Comment Defined.

Pattern	Description
NONE	No Comment Defined.
{1-100}	No Comment Defined.

BwcProvAid

Provisioned Bandwidth Constraint Access Identifier. This identifies a user-provisioned Bandwidth Constraint within the C7 network.

Pattern	Description
{1-100}	User defined Bandwidth Constraints.

BwcRngAid

Bandwidth Constraint Access Identifier. This identifies a Bandwidth Constraint within the C7 network.

Pattern	Description

ALL	Used to retrieve all constraints in the C7 system.
TDM	Used when constraining TDM connections (ENT-CRS-T0) within the C7 system.
VIDSUB	Used when constraining Video Subscriber connections within the C7 system.
VOD	Used when constraining VOD connections within the C7 system.
{1-100}	User defined Bandwidth Constraints.

BwcTdmAid

TDM Bandwidth Constraint Access Identifier. This identifies a Bandwidth Constraint on a TDM VC.

Pattern	Description
NONE	not constrained
TDM	Used when constraining TDM connections (ENT-CRS-T0) within the C7 system.

CID

The address of the session channel which can exist within an AMP on a shelf. CID encompasses both the pattern for SerialPort and for IfConfigAid.

Pattern	Description
N{1-255}-{1-6}-MS-{E1,E2}	The address of the channel identifier in an ethernet port.
N{1-255}-{1-6}-MS-{S1,S2}	The address of the channel identifier in a serial port.

CVidRegAid

CVID REGISTRATION AID. This identifies the local CVID Value specific to a VB port and is used if the PROV PORT TYPE is USER-SIDE. A DEFAULT entry used for C-tagged frames specifies a default rule when a match does not exist and in this case, the frame may be accepted or dropped. The UNTAGGED entry is used to determine the behavior for untagged and priority tagged frames.

Pattern	Description
N{1-255}-{1-5}-VB{1-20}-{1-20}-{1-6}-{UNTAGGED,2-4094,DFLT}	CVID Registration Aid for a physical VB Port. Format : node#-shelf#-VB#-Slot#-Port#-{UNTAGGED,2-4094,DFLT}

N{1-255}-{1-5}- VB{1-20}-{1-7960}- {UNTAGGED,2- 4094,DFLT}	CVID Registration Aid for a VB Endpoint Index. Format = N(Node Id)-(Shelf #)-VB(VB #)-(Index #)-{UNTAGGED,2-4094,DFLT}
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CVidRegRngAid

CVID REGISTRATION AID.

Pattern	Description
N{1-255}-{1-5}- VB{1-20}-{1-20}- {1-6}-ALL	All CVID entries on a physical VB port.
N{1-255}-{1-5}- VB{1-20}-{1-7960}- ALL	All CVID entries on a VB endpoint Index.

CrsT0DstAid

DS0 Port Range Access Identifier.

This identifies a DS0 port entity.

Pattern	Description
N{1-255}-{1-6}- IG{1-15}-{1-2048}	Index Value of a SIP VCG Interface Group. Format = (Node Id)-(Shelf #)-(IG Id)-(Index #)
N{1-255}-{1-6}-{1- 20}-{1-12}-{1-24}	DS0 time slot on a T1 facility. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)-(T0 time slot)
N{1-255}-{1-6}-{1- 20}-{1-24}	DS0 port on a DS0 card. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)
N{1-255}-{1-6}-{1- 20}-{1-4}-{1-64}- {1-24}	DS0 Port on an Optical Network Termination (ONT). Format = (Node Id)-(Shelf #)-(OLT Slot #)-(Pon #)-(ONT number)-(Port Id)
N{1-255}-{1-6}-{1- 20}-{1-6}-{PR,EC}	This AID specifies the DDS DS0 being cross-connected. PR stands for primary DS0 and EC for the error correction DS0. The EC DS0 will only be used if the baud rate is 56000 or 64000 bps with error correction turned on. For rates of 2400, 4800, 9600 or 19200 with error correction turned on, or any rate without error correction -- only the PR DS0 will be used.

CrsT0RngAid

DS0 Port Range and all Reference Value Access Identifier.

This identifies a DS0 port entity or a call reference value (circuit) within a GR-303 or GR-8 Interface Group (rangeable).

Pattern	Description
N{1-255}-{1-6}-ALL	All DS0s or call reference values for a shelf.
N{1-255}-{1-6}-IG{1-15}	This is the AID of a SIP or SIPVCG Interface Group.
N{1-255}-{1-6}-IG{1-15}-ALL	All call reference values for a GR-303 interface group.
N{1-255}-{1-6}-IG{1-15}-{1-2048}	Call Reference Value of a GR-303 Interface Group or Index Value of a SIP VCG Interface Group. Format = (Node Id)-(Shelf #)-(IG Id)-(CRV/Index #)
N{1-255}-{1-6}-{1-20}-ALL	All DS0s or call reference values for a slot.
N{1-255}-{1-6}-{1-20}-IG{1-6}-ALL	All call reference values for a GR-8 interface group.
N{1-255}-{1-6}-{1-20}-IG{1-6}-{1-96}	Channel number of a GR-8 Interface Group. Format = (Node Id)-(Shelf #)-(Slot #)-(IG Id)-(Chan #)
N{1-255}-{1-6}-{1-20}-{1-12}-ALL	All DS0 timeslots on a T1 Facility.
N{1-255}-{1-6}-{1-20}-{1-12}-{1-24}	DS0 time slot on a T1 facility. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)-(DS0 time slot)
N{1-255}-{1-6}-{1-20}-{1-24}	DS0 port on a DS0 card. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-ALL	All DS0 Ports on an Optical Network Termination (ONT).
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-24}	DS0 Port on an Optical Network Termination (ONT). Format = (Node Id)-(Shelf #)-(OLT Slot #)-(Pon #)-(ONT number)-(Port Id)
N{1-255}-{1-6}-{1-20}-{1-6}-{PR,EC}	This AID specifies the DDS DS0 being cross-connected. PR stands for primary DS0 and EC for the error correction DS0. The EC DS0 will only be used if the baud rate is 56000 or 64000 bps with error correction turned on. For rates of 2400, 4800, 9600 or 19200 with error correction turned on, or any rate without error correction -- only the PR DS0 will be used.

CrsT0SrcAid

DS0 Port Range and Call Reference Value Access Identifier.

This identifies a DS0 port entity or a call reference value (circuit) within a GR-303 or GR-8 Interface Group.

Pattern	Description
N{1-255}-{1-6}-IG{1-15}-{1-2048}	Call Reference Value of a GR-303 or SIP Interface Group. Format = (Node Id)-(Shelf #)-(IG Id)-(CRV #)
N{1-255}-{1-6}-{1-20}-IG{1-6}-{1-96}	Channel number of a GR-8 Interface Group. Format = (Node Id)-(Shelf #)-(Slot #)-(IG Id)-(Chan #)
N{1-255}-{1-6}-{1-20}-{1-12}-{1-24}	DS0 time slot on a T1 facility. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)-(DS0 time slot)
N{1-255}-{1-6}-{1-20}-{1-24}	DS0 port on a DS0 card. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-24}	DS0 Port on an Optical Network Termination (ONT). Format = (Node Id)-(Shelf #)-(OLT Slot #)-(Pon #)-(ONT number)-(Port Id)
N{1-255}-{1-6}-{1-20}-{1-6}-{PR,EC}	This AID specifies the DDS DS0 being cross-connected. PR stands for primary DS0 and EC for the error correction DS0. The EC DS0 will only be used if the baud rate is 56000 or 64000 bps with error correction turned on. For rates of 2400, 4800, 9600 or 19200 with error correction turned on, or any rate without error correction -- only the PR DS0 will be used.

CrvAid

Call Reference Value Access Identifier. This identifies a call reference value (circuit) within a GR-303 interface group.

Pattern	Description
N{1-255}-{1-6}-IG{1-15}-{1-2048}	Call Reference Value of a GR-303 Interface Group. Format = (Node Id)-(Shelf #)-(IG Id)-(CRV #)

CrvRngAid

Call Reference Value Access Identifier. This identifies a call reference value (circuit) within a GR-303 interface group.

Pattern	Description
ALL	System scoped retrieval.
N{1-255}-ALL	Node scoped retrieval.
N{1-255}-{1-6}-ALL	All call reference values for a shelf.
N{1-255}-{1-6}-IG{1-15}-ALL	All call reference values for a GR-303 interface group.
N{1-255}-{1-6}-	Call Reference Value of a GR-303 Interface Group.

IG{1-15}-{1-2048}	Format = (Node Id)-(Shelf #)-(IG Id)-(CRV #)
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DLPProfileAid

The access identifier of a Data Link Profile within an Interface Group. Currently, only GR-303 Data Link Profiles are supported.

Pattern	Description
N{1-255}-{1-6}-IG{1-15}-{0-1}	Data Link Profile Identifier for a GR-303 Interface Group. Format = (Node Id)-(Shelf #)-(IG Id)-(SAPI #)

DataLinkAid

Data Link Access Identifier. The port address where the Data Link is to be located.

Pattern	Description
N{1-255}-{1-6}-{1-20}-IMA{1-16}	Identifier of an IMA group.
N{1-255}-{1-6}-{1-20}-{1-12}	Identifier of a port on an OCn, DS3p or T1-6-A+T card.
N{1-255}-{1-6}-{CSA,CSB}-{1}	Identifier of a port on a RAP card.

DataLinkRngAid

Data Link Access Identifier. The port address where the Data Link is to be located.

Pattern	Description
N{1-255}-{1-6}-ALL	All datalinks on a shelf.
N{1-255}-{1-6}-{1-20,CSA,CSB}-{ALL}	All datalinks on a slot.
N{1-255}-{1-6}-{1-20}-IMA{1-16}	Identifier of an IMA group.
N{1-255}-{1-6}-{1-20}-{1-12}	Identifier of a port on an OCn, DS3p or T1-6-A+T card.
N{1-255}-{1-6}-{CSA,CSB}-{1}	Identifier of a port on a RAP card.

DatalinkShelfAid

Data Link or Shelf Access Identifier. The port address where the Data Link is located. If this is a single-shelf system, this is the Shelf AID of that shelf.

Pattern	Description
N{1-255}-{1-6}	Identifier of a shelf.
N{1-255}-{1-6}-{1-20}-IMA{1-16}	Identifier of an IMA group.
N{1-255}-{1-6}-{1-20}-{1-12}	Identifier of a port on an OCn, DS3p or T1-6-A+T card.
N{1-255}-{1-6}-{CSA,CSB}-{1}	Identifier of a port on a RAP card.

DccAid

Dcc Access Identifier

Pattern	Description
N{1-255}-{1-6}-{1-20}-{1-4}-{SDCC,LDCC,LDCC1,LDCC2,LDCC3}	DCC channel on a Line Unit OCn Port. SDCC denotes a section DCC. LDCC denotes a line DCC. LDCC(1-3) denotes one byte in the line DCC overhead.
N{1-255}-{1-6}-{CSA,CSB}-{1}-{SDCC,LDCC,LDCC1,LDCC2,LDCC3}	DCC channel on a RAP-OC port. SDCC denotes a section DCC. LDCC denotes a line DCC. LDCC(1-3) denotes one byte in the line DCC overhead.

DccRngAid

Dcc Ranging Access Identifier

Pattern	Description
N{1-255}-{1-6}-ALL	All DCCs on all ports on all slots.
N{1-255}-{1-6}-{1-20,CSA,CSB}-ALL	All DCCs on a slot.
N{1-255}-{1-6}-{1-20}-{1-4}-ALL	All DCCs on a line-unit port.
N{1-255}-{1-6}-{1-20}-{1-4}-{SDCC,LDCC,LDCC1,LDCC2,LDCC3}	DCC channel on a Line Unit OCn Port. SDCC denotes a section DCC. LDCC denotes a line DCC. LDCC(1-3) denotes one byte in the line DCC overhead.
N{1-255}-{1-6}-{CSA,CSB}-{1}-ALL	All DCCs on a RAP-OC port.

N{1-255}-{1-6}-{CSA,CSB}-{1-}{SDCC,LDCC,LDCC1,LDCC2,LDCC3}	DCC channel on a RAP-OC port. SDCC denotes a section DCC. LDCC denotes a line DCC. LDCC(1-3) denotes one byte in the line DCC overhead.
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DebugSlotAid

No Comment Defined.

Pattern	Description
N{1-255}-{1-5}-{1-35}	No Comment Defined.

DslProfAid

DSL Profile Access Identifier. This uniquely identifies a DSL service profile.

Pattern	Description
ADSL2	ADSL2 standards specification. (G.992.3)
ADSL2+	ADSL2+ standards specification. (G.992.5)
ANNEXM	ADSL2+ Annex "M" standards specification. (G.992.5)
GDMT	The default service profile for G.DMT service.
GLITE	The default service profile for G.LITE service.
MM	The default service profile for Multi-Mode service.
MM2+	The default service profile for Multi-Mode, ADSL2+ service.
READSL2	Reach Extended ADSL2 (G.992.3 Annex L Standard)
T1413	The default service profile for T1.413 service.
{1-50}	User defined profiles.

DslProfAllAid

DSL Profile Access Identifier. This uniquely identifies a DSL service profile. This AId contains the 'ALL' option for use by RTRV commands.

Pattern	Description
ADSL2	ADSL2 standards specification. (G.992.3)
ADSL2+	ADSL2+ standards specification. (G.992.5)
ALL	All records.
ANNEXM	ADSL2+ Annex "M" standards specification.

	(G.992.5)
GDMT	The default service profile for G.DMT service.
GLITE	The default service profile for G.LITE service.
MM	The default service profile for Multi-Mode service.
MM2+	The default service profile for Multi-Mode, ADSL2+ service.
READSL2	Reach Extended ADSL2 (G.992.3 Annex L Standard)
T1413	The default service profile for T1.413 service.
{1-50}	User defined profiles.

DslProfProvAid

DSL Profile Access Identifier. This uniquely identifies a DSL service profile.

The access identifiers consist of:

(DSL Profile #)

Pattern	Description
{1-50}	User defined profiles.

E3Aid

Virtual Ethernet interface for use with In-Band ATM PVC Management

Pattern	Description
N{1-255}-{1-5}-MS-E3	N{Node #}-{Shelf #}-{Management Slot Id}-{Virtual Ethernet Id}

EnvAid

Environmental Access Identifier. The location of the environmental monitoring points within a node. There are eight environmental contacts within a single node and are always located on the backplane behind the Administrative and Maintenance Processor (AMP) card which has been provisioned to be the local AMP.

Pattern	Description
N{1-255}-ENV{1-8}	Environmental Monitoring Point. Format = (Node Id)-(Environment Contact #)

EnvRngAid

Environmental Access Ranging Identifier. The location of the environmental monitoring points within a node. There are eight environmental contacts within a single node and are always located on the backplane behind the Administrative and Maintenance Processor (AMP) card which has been provisioned to be the local AMP.

Pattern	Description
N{1-255}-ALL	Environmental Monitoring Points.
N{1-255}-ENV{1-8}	Environmental Monitoring Point.

EocTmcAid

The address of the physical address of the DS1 which carries the either the Primary or Secondary EOC/TMC Data Link for a GR-303 Interface Group.

Pattern	Description
N{1-255}-{1-6}-{1-20}-{1-12}-12	The address of the DS0 within the physical DS1 which is carrying the Embedded Operations Channel (EOC) Data Link. Format = (Node Id)-(Shelf #)-(Slot #)-(DS1 Port #)-(DS0 #)
N{1-255}-{1-6}-{1-20}-{1-12}-24	The address of the DS0 within the physical DS1 which is carrying the Time-Slot Management Channel (TMC) Data Link. Format = (Node Id)-(Shelf #)-(Slot #)-(DS1 Port #)-(DS0 #)

EpAid

Bandwidth Endpoint Access Identifier. This identifies a termination point on which provisioned bandwidth information is reported.

Pattern	Description
N{1-255}-{1-5}-VB{1-20}	Virtual Bridge Address
N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}	Optical Network Termination Access Identifier.
N{1-255}-{1-6}-{1-20,CSA,CSB}	Service, Transport Slots and Control Slots. The transport slots are generic slots that can hold any type of service or transport cards (i.e. OC12, RPOTS, etc).
N{1-255}-{1-6}-{1-20,CSA,CSB}-PP{1-2}	Pseudo Port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port #)-PP(Pseudo Port #).
N{1-255}-{1-6}-{1-20}-IMA{1-16}	IMA Group. Format = (Node Id)-(Shelf #)-(Slot #)-IMA(IMA Group #).
N{1-255}-{1-6}-{1-20}-{1-12}-{1-48}	Line Unit STS. Format = (Node Id)-(Shelf #)-(Slot #)-(Port #)-(STS #).
N{1-255}-{1-6}-{1-	Line Unit Port. Format = (Node Id)-(Shelf #)-(Slot

20)-{1-24}	#)-(Port #).
N{1-255}-{1-6}-{CSA,CSB}-{1}	RAP Port. Format = (Node Id)-(Shelf #)-(Control Slot)-(Port #).
N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}	RAP STS. Format = (Node Id)-(Shelf #)-(Control Slot)-(Port #)-(STS #).

EpRngAid

Bandwidth Endpoint Access Identifier. This identifies a termination point on which provisioned bandwidth information is reported.

Pattern	Description
N{1-255}-{1-5}-VB{1-20}	Virtual Bridge Address
N{1-255}-{1-5}-{1-20}-{1-4}-ALL	All Endpoints under a PON.
N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}	Optical Network Termination Access Identifier.
N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-ALL	All Ethernet Ports on an ONT.
N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12}	An ONT Ethernet Port.
N{1-255}-{1-6}-ALL	All equipment on a shelf.
N{1-255}-{1-6}-{1-20,CSA,CSB}	Service, Transport Slots and Control Slots. The transport slots are generic slots that can hold any type of service or transport cards (i.e. OC12, RPOTS, etc).
N{1-255}-{1-6}-{1-20,CSA,CSB}-ALL	All Ports. Format = (Node Id)-(Shelf #)-(Slot #)-ALL.
N{1-255}-{1-6}-{1-20,CSA,CSB}-PP{1-2}	Pseudo Port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port #)-PP(Pseudo Port #).
N{1-255}-{1-6}-{1-20}-IMA{1-16}	IMA Group. Format = (Node Id)-(Shelf #)-(Slot #)-IMA(IMA Group #).
N{1-255}-{1-6}-{1-20}-{1-12}-ALL	All Line Unit STSs. Format = (Node Id)-(Shelf #)-(Slot #)-(Port #)-ALL.
N{1-255}-{1-6}-{1-20}-{1-12}-{1-48}	Line Unit STS. Format = (Node Id)-(Shelf #)-(Slot #)-(Port #)-(STS #).
N{1-255}-{1-6}-{1-20}-{1-24}	Line Unit Port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port #).
N{1-255}-{1-6}-{CSA,CSB}-{1}	RAP Port. Format = (Node Id)-(Shelf #)-(Control Slot)-(Port #).
N{1-255}-{1-6}-	All RAP STS. Format = (Node Id)-(Shelf #)-

{CSA,CSB}-{1}- ALL	(Control Slot)-(Port #)-ALL.
N{1-255}-{1-6}- {CSA,CSB}-{1}-{1- 48}	RAP STS. Format = (Node Id)-(Shelf #)-(Control Slot)-(Port #)-(STS #).

EthAggAid

Ethernet Aggregate Access Identifier.

Pattern	Description
N{1-255}-{1-6}-{1- 20}-AGG{1-12}	Node-Shelf-Slot-Aggregate Index

EthAggPortAid

Union of EthAggAid and TwelvePortLuAid.

Pattern	Description
N{1-255}-{1-6}-{1- 20}-AGG{1-12}	Node-Shelf-Slot-Aggregate Index
N{1-255}-{1-6}-{1- 20}-{1-12}	Line Unit Port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)

EthAggRngAid

Ethernet Aggregate Ranging Access Identifier.

Pattern	Description
N{1-255}-{1-6}-{1- 20}-AGG{1-12}	Node-Shelf-Slot-Aggregate Index
N{1-255}-{1-6}-{1- 20}-ALL	All aggregates Indexes for a given slot.

EthProfAid

Ethernet Profile Aid.

Pattern	Description
{1-100}	Profile Number.

EthProfRngAid

Ethernet Profile Aid.

Pattern	Description
ALL	ALL Ethernet profiles.
{1-100}	Profile Number.

EthVtiAggPortAid

Ethernet VTI Aggregation Port Access IDentifier.

Pattern	Description
N{1-255}-{1-6}-VTI{1-80}	Node-Shelf-VTI Index
N{1-255}-{1-6}-{1-20}-AGG{1-12}	Node-Shelf-Slot-Aggregate Index
N{1-255}-{1-6}-{1-20}-{1-12}	Line Unit Port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)

EthVtiAggPortRngAid

Ethernet VTI Aggregation Port Ranging Access IDentifier.

Pattern	Description
N{1-255}-{1-6}-VTI{1-80}	Node-Shelf-VTI Index
N{1-255}-{1-6}-{1-20}-AGG{1-12}	Node-Shelf-Slot-Aggregate Index All Link aggregates and Ports in a slot.
N{1-255}-{1-6}-{1-20}-ALL	All Link aggregates and Ports in a slot.
N{1-255}-{1-6}-{1-20}-{1-12}	Line Unit Port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)

ExtControlAid

External Control Access Identifier. The location of the external control points within a node. There is a maximum of two within a single node and are always located on the backplane behind the Administrative and Test Processor (ATP) card which has been provisioned to be the NODEAMP (see ENT/ED-NODE).

Pattern	Description
N{1-255}-EXT{1-2}	External Controls. Format = (Node Id)-

(Environment Contact #)

ExtControlRngAid

External Control Ranging Access Identifier. The location of the external control points within a node. There is a maximum of two within a single node and are always located on the backplane behind the Administrative and Test Processor. (ATP) card which has been provisioned to be the NODEAMP (see ENT/ED-NODE).

The access identifiers consist of:

(Node Id)-(Environment Contact #)

Pattern	Description
N{1-255}-ALL	External Controls.
N{1-255}-EXT{1-2}	External Control.

FourPortLuAid

4-Port Line Unit Access Identifier.

Pattern	Description
N{1-255}-{1-5}-{1-20}-{1-4}	Line Unit Port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)

FourPortLuAndRapAid

Four Port Line Unit or RAP Access Identifier.

The access identifiers consist of:

(Node Id)-(Shelf #)-(Slot Id)-(Port Id)

Pattern	Description
N{1-255}-{1-5}-{1-20}-{1-4}	Line Unit Port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)
N{1-255}-{1-5}-{CSA,CSB}-{1}	RAP Port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)

FourPortLuAndRapNtwkRngAid

Four Port Line Unit or RAP Access Identifier.

The access identifiers consist of:

(Node Id)-(Shelf #)-(Slot Id)-(Port Id)

Wild card ranging of ports:

(Node Id)-(Shelf #)-(Slot Id)-ALL

(Node Id)-(Shelf #)-ALL

Pattern	Description
ALL	System scoped retrieval.
N{1-255}-ALL	Node scoped retrieval.
N{1-255}-{1-5}-ALL	All Ports in the shelf.
N{1-255}-{1-5}-{1-20,CSA,CSB}-ALL	Any Port for any slot in the shelf (including RAP).
N{1-255}-{1-5}-{1-20}-{1-4}	Line Unit Port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)
N{1-255}-{1-5}-{CSA,CSB}-{1}	RAP Port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)

FourPortLuAndRapRngAid

Four Port Line Unit or RAP Access Identifier.

The access identifiers consist of:

(Node Id)-(Shelf #)-(Slot Id)-(Port Id)

Wild card ranging of ports:

(Node Id)-(Shelf #)-(Slot Id)-ALL

(Node Id)-(Shelf #)-ALL

Pattern	Description
N{1-255}-{1-5}-ALL	All Ports in the shelf.
N{1-255}-{1-5}-{1-20,CSA,CSB}-ALL	Any Port for any slot in the shelf (including RAP).
N{1-255}-{1-5}-{1-20}-{1-4}	Line Unit Port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)
N{1-255}-{1-5}-{CSA,CSB}-{1}	RAP Port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)

FourPortLuNtwkRngAid

4-Port Line Network Unit Ranging Access Identifier.

Pattern	Description
ALL	All Ports in the system.
N{1-255}-ALL	All Ports under a Node.
N{1-255}-{1-5}-ALL	All Port Aids under a shelf.
N{1-255}-{1-5}-{1-20}-ALL	All ports under a slot.
N{1-255}-{1-5}-{1-20}-{1-4}	Format = (Node Id)-(Shelf #)-(Slot #)-(Port #)

FourPortLuRngAid

4-Port Line Unit Ranging Access Identifier.

Pattern	Description
N{1-255}-{1-5}-{1-20}-ALL	Any Port for any generic slot in the shelf.
N{1-255}-{1-5}-{1-20}-{1-4}	Line Unit Port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)

GePpAid

Gigabit Ethernet Pseudo Port Access IDentifier.

Pattern	Description
N{1-255}-{1-6}-{1-20}-PP1	Pseudo-port. The access identifier of the form of (Node Id)-(Shelf #)-(Slot #)-PP(Port Id)

GosAid

Grade of Service Access Identifier. This uniquely identifies one entry in the Grade of Service Table which contains the performance parameters and their associated threshold values.

Pattern	Description
DEFLT	The Grade of Service access identifier for defaults values defined by the Standards.
OFF	The Grade of Service access identifier which indicates that reporting of Threshold Crossing Alerts are turned off.
{1-20}	User defined profiles.

GosAllAid

Grade of Service Access Identifier. This uniquely identifies one entry in the Grade of Service Table which contains the performance parameters and their associated threshold values. This Aid contains the 'ALL' option for use by RTRV commands.

Pattern	Description
ALL	All records.
DEFLT	The Grade of Service access identifier for defaults values defined by the Standards.
OFF	The Grade of Service access identifier which indicates that reporting of Threshold Crossing Alerts are turned off.
{1-20}	User defined profiles.

GosProvAid

Grade of Service Access Identifier. This uniquely identifies one entry in the Grade of Service Table which contains the performance parameters and their associated threshold values.

Pattern	Description
{1-20}	User defined profiles.

IfConfigAid

Ethernet Port Access Identifiers. The address of the ethernet ports within a shelf.

Pattern	Description
N{1-255}-{1-6}-MS-{E1,E2,E3}	Address of an ethernet port on an AMP.

IfConfigAidNone

Ethernet Port Access Identifiers. The address of the ethernet ports within a shelf, or "NONE" if no port is assigned.

Pattern	Description
NONE	No port association.
N{1-255}-{1-6}-MS-{E1,E2,E3}	Address of an ethernet port on an AMP.

IgAid

Interface Group Access Identifier. The access identifier of a GR-303 or T1TG Interface Group within a shelf.

Pattern	Description
N{1-255}-{1-6}-IG{1-15}	Interface Group. Format = (Node Id)-(Shelf #)-(IG Id)

IgCrvAid

This identifies a call reference value (circuit) within a GR-303 interface group.

Pattern	Description
N{1-255}-{1-6}-IG{1-15}-ALL	A CRV within an Interface Group. Format = (Node Id)-(Shelf #)-(IG Id)-(CRV #)
N{1-255}-{1-6}-IG{1-15}-{1-2048}	All CRVs within an Interface Group.

IgCtrlLinkAid

H248 Interface Group Control Link Address

Pattern	Description
N{1-255}-{1-6}-IG{1-15}-{PRI,SEC}	Primary or Secondary. Secondary link is not supported in C7 release 5.2

IgDs1Aid

Interface Group DS1 Access Identifier. The access identifier of a DS1 which is assigned within an Interface Group.

Pattern	Description
N{1-255}-{1-6}-IG{1-15}-{1-28}	DS1 Identifier for a GR-303 or T1TG Interface Group. Format = (Node Id)-(Shelf #)-(IG Id)-(DS1 #)
N{1-255}-{1-6}-{1-20}-IG{1-6}-{A,B,C,D,P,AB,CD}	DS1 Identifier for a GR-8 Interface Group. Format = (Node Id)-(Shelf #)-(Slot #)-(IG Id)-(DS1 Identifier)

IgDs1RngAid

Interface Group DS1 Access Identifier. The access identifier of a DS1 which is assigned within an Interface Group.

Pattern	Description
ALL	All DS1 Identifiers for any Interface Group in the system.
N{1-255}-ALL	All DS1 Identifiers for any Interface Group on a node.
N{1-255}-{1-6}-ALL	All DS1 Identifiers for any Interface Group on a shelf.
N{1-255}-{1-6}-IG{1-15}-ALL	All DS1 Identifiers for a specific GR-303 or T1TG Interface Group.
N{1-255}-{1-6}-IG{1-15}-{1-28}	DS1 Identifier for a GR-303 or T1TG Interface Group. Format = (Node Id)-(Shelf #)-(IG Id)-(DS1 #)
N{1-255}-{1-6}-{1-20}-ALL	All DS1 Identifiers for GR-8 Interface Groups under the named slot.
N{1-255}-{1-6}-{1-20}-IG{1-6}-ALL	All DS1 Identifiers for a specific GR-8 Interface Group.
N{1-255}-{1-6}-{1-20}-IG{1-6}-{A,B,C,D,P,AB,CD}	DS1 Identifier for a GR-8 Interface Group. Format = (Node Id)-(Shelf #)-(Slot #)-(IG Id)-(DS1 Identifier)

IgLinkAid

The address of either the Primary or Secondary datalink of either the Time-slot Management Channel (TMC) or Embedded Operations Channel (EOC) which can have alarms generated against them.

Pattern	Description
N{1-255}-{1-6}-IG{1-15}-{EOC,TMC}-{P,S}	IG datalink access identifier. The access identifier of the form of (Node Id)-(Shelf #)-(IG Id)-(Data Link Id)-(Primary or Secondary Link)

IgLinkRngAid

The address of either the Primary or Secondary datalink of either the Time-slot Management Channel (TMC) or Embedded Operations Channel (EOC) which can have alarms generated against them.

Pattern	Description
N{1-255}-{1-6}-ALL	All datalinks on all interface groups on a shelf.
N{1-255}-{1-6}-IG{1-15}-ALL	All datalinks on an interface group.
N{1-255}-{1-6}-	

IG{1-15}- {EOC,TMC}-ALL	All datalinks on either the TMC or EOC channel.
N{1-255}-{1-6}- IG{1-15}- {EOC,TMC}-{P,S}	IG datalink access identifier. The access identifier of the form of (Node Id)-(Shelf #)-(IG Id)-(Data Link Id)-(Primary or Secondary Link)

IgLinkSwAid

The access identifier for the Data Links of a GR-303 Interface Group which can be switched from the primary link to the secondary line or vise versa.

Pattern	Description
N{1-255}-{1-6}- IG{1-15}-EOC	The address of the GR-303 Embedded Operations Channel (EOC) Data Link. Format = (Node Id)-(Shelf #)-(IG Id)-(Data Link Id)
N{1-255}-{1-6}- IG{1-15}-TMC	The address of the GR-303 Time Slot Management Channel (TMC) Data Link. Format = (Node Id)-(Shelf #)-(IG Id)-(Data Link Id)

IgLinkSwRngAid

The access identifier for the Data Links of a GR-303 Interface Group which can be switched from the primary link to the secondary line or vise versa.

The access identifiers consist of:

(Node Id)-(Shelf #)-(IG Id)-(Data Link Id)

Wild card data link AID:

(Node Id)-(Shelf #)-ALL

(Node Id)-(Shelf #)-(IG Id)-ALL

Pattern	Description
N{1-255}-{1-6}- ALL	The address of the any Data Link for any GR-303 Interface Group on this shelf.
N{1-255}-{1-6}- IG{1-15}-ALL	The address of the any Data Link for a specified GR-303 Interface Group.
N{1-255}-{1-6}- IG{1-15}-EOC	The address of the GR-303 Embedded Operations Channel (EOC) Data Link. Format = (Node Id)-(Shelf #)-(IG Id)-(Data Link Id)
N{1-255}-{1-6}- IG{1-15}-TMC	The address of the GR-303 Time Slot Management Channel (TMC) Data Link. Format = (Node Id)-(Shelf #)-(IG Id)-(Data Link Id)

IgRngAid

Interface Group Access Identifier. The access identifier of a GR-303 or T1TG Interface Group within a shelf.

Pattern	Description
ALL	All Interface Groups in the system.
N{1-255}-ALL	All Interface Groups on the node.
N{1-255}-{1-6}-ALL	All Interface Groups on the shelf.
N{1-255}-{1-6}-IG{1-15}	Interface Group. Format = (Node Id)-(Shelf #)-(IG Id)

IgVspAid

Interface Group VSP Access Identifier. The access identifier of a VSP which is assigned within an H.248 Interface Group.

Pattern	Description
N{1-255}-{1-6}-IG{1-15}-{1-2}	VSP Identifier for an H.248. Format = (Node Id)-(Shelf #)-(IG Id)-(VSP #)

IgVspRngAid

Interface Group VSP Access Identifier. The access identifier of a VSP which is assigned within an H.248 Interface Group.

Pattern	Description
ALL	All VSP associations with all H.248 Interface groups in the system.
N{1-255}-ALL	All VSP associations with all H.248 Interface groups under a node.
N{1-255}-{1-6}-ALL	All VSP associations with all H.248 Interface groups under a shelf.
N{1-255}-{1-6}-IG{1-15}-ALL	All VSP associations within an H.248 Interface group.
N{1-255}-{1-6}-IG{1-15}-{1-28}	A VSP association within an H.248 Interface group.

IkeProfAidNone

No Comment Defined.

Pattern	Description

NONE	No Comment Defined.
{1-10}	No Comment Defined.

IkeProfProvAid

No Comment Defined.

Pattern	Description
{1-10}	No Comment Defined.

IkeProfRngAid

No Comment Defined.

Pattern	Description
ALL	No Comment Defined.
{1-10}	No Comment Defined.

ImaGrpAid

Inverse Multiplexing for ATM (IMA) Group Access Identifier.

Pattern	Description
N{1-255}-{1-6}-{1-20}-IMA{1-16}	N{Node #}-{Shelf #}-{Slot #}-IMA{Group #}

ImaGrpAid-ALL

Inverse Multiplexing for ATM (IMA) (-All) Access Identifier. The address used for ranged requests of all entities under an IMA Group.

Pattern	Description
N{1-255}-{1-5}-{1-20}-IMA{1-16}-ALL	N{Node #}-{Shelf #}-{Slot #}-IMA{Group #}-ALL

ImaRngAid

Inverse Multiplexing for ATM (IMA) Interface Group Access Identifier for Ranging.

Pattern	Description
ALL	System scoped retrieval.
N{1-255}-ALL	Node scoped retrieval.
N{1-255}-{1-6}-ALL	All IMA Groups on a shelf.
N{1-255}-{1-6}-{1-20}-ALL	All IMA Groups on a slot.
N{1-255}-{1-6}-{1-20}-IMA{1-16}	The address of an IMA group. Format = (Node Id)-(Shelf #)-(Slot #)-IMA(Group #)

IpAid

Internet Protocol Address.

Pattern	Description
{0-255}.{0-255}.{0-255}.{0-255}	IP Address. Each number between the periods corresponds to a byte in the IP address.

IpIfAid

IP IF AID - specifies a port that can be used to create an IP Interface.

Pattern	Description
N{1-255}-{1-6}-{1-20,CSA,CSB}-PP{1-2}	Pseudo Port Access IDentifier.
N{1-255}-{1-6}-{1-20}-PP1	Ge2p Pseudo Port Access Identifier
N{1-255}-{1-6}-{1-20}-{1-6}	Ge-2p Gigabit Ethernet Port.

IpIfPortAid

IP IF Port Access Identifier - used to associate a Lower layer interface to an IP address.

Pattern	Description
N{1-255}-{1-5}-VB{1-20}	Virtual Bridge Access Identifier
N{1-255}-{1-5}-VB{1-20}-VLAN{1-4096}	VLAN Identifier
N{1-255}-{1-5}-VR{1-20}-{1-7960}	Virtual Router VC Endpoint

IpMask

IP/MASK: This is a combination of the IP and MASK used to define IP Route. Example: a value of 192.168.1.0/24 equates to IP = 192.168.1.0, MASK = 255.255.255.0

Pattern	Description
{0-255}.{0-255}.{0-255}.{0-255}/{0-32}	IP Address/IP Mask.

IpMaskAid

IP/MASK: This is a combination of the IP and MASK used to retrieve IP Route. Example: a value of 192.168.1.0/24 equates to IP = 192.168.1.0, MASK = 255.255.255.0. ALL/ALL retrieves all IP routes.

Pattern	Description
ALL/ALL	ALL/ALL: used for ranging over IP address and IP Mask.
{0-255}.{0-255}.{0-255}.{0-255}/ALL	Internet Protocol Address/ALL: Used for a specific IP address and a IP Mask range.
{0-255}.{0-255}.{0-255}.{0-255}/{0-32}	Internet Protocol address/IP Mask: used for a specific IP and IP Mask combination

IpRngAid

Internet Protocol Address for ranging.

Pattern	Description
ALL	All IP addresses.
{0-255}.{0-255}.{0-255}.{0-255}	IP Address. Each number between the periods corresponds to a byte in the IP address.

IrcPpAid

IRC Pseudo Port Access IDentifier.

Pattern	Description
N{1-255}-{1-6}-{1-20,CSA,CSB}-PP1	Pseudo-port. The access identifier of the form of (Node Id)-(Shelf #)-(Slot #)-PP(Port Id)

IrcPpRngAid

IRC Pseudo-Port Ranging AID.

Pattern	Description
N{1-255}-{1-6}-ALL	All pseudo-ports on a shelf.
N{1-255}-{1-6}-{1-20,CSA,CSB}-ALL	All pseudo-ports on a slot.
N{1-255}-{1-6}-{1-20,CSA,CSB}-PP1	Pseudo-port. The access identifier of the form of (Node Id)-(Shelf #)-(Slot #)-PP(Port Id)

L2IfAid

Layer 2 Interface Access Identifier

Pattern	Description
N{1-255}-{1-5}-{1-20}-IMA{1-16}-VP{0-4095}-VC{32-65535}	IMA Port VC Access Identifier. VC in a VP on an IMA Port.
N{1-255}-{1-5}-{1-20}-PP{1-2}-VP{0-4095}-VC{32-65535}	Line Unit Pseudo-Port VC Access Identifier. VC in a VP on a pseudo-port on a line unit slot
N{1-255}-{1-5}-{1-20}-{1-12}-VP{0-4095}-VC{32-65535}	Line Unit Port VC Access Identifier. VC in a VP on an ATM-capable port
N{1-255}-{1-5}-{1-20}-{1-24}	24-Port Line Unit Access Identifier
N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}-VP{0-4095}-VC{32-32767}	ADSL VC Access Identifier. VC in a VP in an ADSL channel
N{1-255}-{1-5}-{1-20}-{1-4}-{1-48}-VP{0-4095}-VC{32-65535}	Line Unit STS VC Access Identifier. VC in a VP in an STSn on an ATM-capable Sonet card. VP range 4000-4090 is reserved for protected VP a2z(s). VP 4094 is reserved for protected VC a2z(s). VP 4095 is reserved for unprotected VC a2z(s) and control Vc(s).
N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12}-{1-12}	Optical Network Termination Port AID
N{1-255}-{1-5}-{CSA,CSB}-PP{1-2}-VP{0-4095}-VC{32-65535}	Control Slot Pseudo-Port VC Access Identifier. VC in a VP on a pseudo-port on a control slot

N{1-255}-{1-5}-{CSA,CSB}-{1}-{1-48}-VP{0-4095}-VC{32-65535}	Control Slot STSn VC Access Identifier. VC in a VP on an STSn on an ATM-capable Sonet control card
N{1-255}-{1-6}-{CSA,CSB}-{1}	Identifier of a port on a RAP card.

LSwitchAid

Logical Switch Access Identifier.

Pattern	Description
N{1-255}-{1-6}-XLAN{1-100}	Identifies an LSwitch belonging to a particular XLAN. Format = (Node Id)-(Shelf #)-(Extended LAN Index)

LSwitchPortAid

Logical Switch Port Access Identifier.

Pattern	Description
N{1-255}-{1-6}-XLAN{1-100}-NTWK{1-2}	Identifies a network-facing port on an LSwitch. Format = (Node Id)-(Shelf #)-(Extended LAN Index)-NTWK(Port #)
N{1-255}-{1-6}-XLAN{1-100}-{1-1000}	Identifies a subscriber-facing port on an LSwitch. Format = (Node Id)-(Shelf #)-(Extended LAN Index)-(Port #)

LSwitchPortRngAid

Logical Switch Port Access Identifier.

Pattern	Description
N{1-255}-{1-6}-ALL	All LSwitch ports on a shelf.
N{1-255}-{1-6}-XLAN{1-100}-ALL	All LSwitch ports on a particular LSwitch.
N{1-255}-{1-6}-XLAN{1-100}-NTWK{1-2}	Identifies a network-facing port on an LSwitch. Format = (Node Id)-(Shelf #)-(Extended LAN Index)-NTWK(Port #)
N{1-255}-{1-6}-XLAN{1-100}-{1-1000}	Identifies a subscriber-facing port on an LSwitch. Format = (Node Id)-(Shelf #)-(Extended LAN Index)-(Port #)

LSwitchRngAid

Logical Switch Access Identifier.

Pattern	Description
N{1-255}-{1-6}-ALL	All LSwitches in a shelf.
N{1-255}-{1-6}-XLAN{1-100}	Identifies an LSwitch belonging to a particular XLAN. Format = (Node Id)-(Shelf #)-(Extended LAN Index)

LinkBwcAid

Link Bandwidth Constraint Access Identifier. Identifies the Link Bandwidth Constraint to be operated upon.

Pattern	Description
N{1-255}-{1-6}-{1-20}-IMA{1-16}-BWC{1-100,TDM,VOD}	The address of a Bandwidth Constraint on an IMA group. Format = (Node Id)-(Shelf #)-(Slot #)-IMA(IMA Group #)-BWC(BWC ID)
N{1-255}-{1-6}-{1-20}-{1-12}-BWC{1-100,TDM,VOD}	The address of a Bandwidth Constraint on a port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port #)-BWC(BWC ID)
N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-BWC{1-100,TDM,VOD}	The address of a Bandwidth Constraint on an STS path on an OCn card. Format = (Node Id)-(Shelf #)-(Slot #)-(Port #)-(STS #)-BWC(BWC ID)
N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-BWC{1-100,TDM,VOD}	Link Bandwidth Constraint on an STS path in a RAP OCn port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port #)-(STS #)-BWC(BWC ID)

LinkBwcRngAid

Link Bandwidth Constraint Access Identifier for ranging. Identifies the Link Bandwidth Constraint to be operated upon.

Pattern	Description
N{1-255}-{1-6}-ALL	All Link Bandwidth Constraints on a shelf.
N{1-255}-{1-6}-{1-20,CSA,CSB}-ALL	All Link Bandwidth Constraints on a slot.
N{1-255}-{1-6}-{1-	

20}-IMA{1-16}-ALL	All Link Bandwidth Constraints on an IMA group.
N{1-255}-{1-6}-{1-20}-IMA{1-16}-BWC{1-100,TDM,VOD}	The address of a Bandwidth Constraint on an IMA group. Format = (Node Id)-(Shelf #)-(Slot #)-IMA(IMA Group #)-BWC(BWC ID)
N{1-255}-{1-6}-{1-20}-{1-12}-ALL	All Link Bandwidth Constraints on a port.
N{1-255}-{1-6}-{1-20}-{1-12}-BWC{1-100,TDM,VOD}	The address of a Bandwidth Constraint on a port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port #)-BWC(BWC ID)
N{1-255}-{1-6}-{1-20}-{1-24}-CH{0-1}-BWC{VIDSUB}	The address of a Video Subscriber Bandwidth Constraint on a PGAP ADSL channel. Format = (Node Id)-(Shelf #)-(Slot #)-PGAP ADSL Port-ADSLCHAN-BWC(BWC ID)
N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-ALL	All Link Bandwidth Constraints on an STS path on an OCn card.
N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-BWC{1-100,TDM,VOD}	The address of a Bandwidth Constraint on an STS path on an OCn card. Format = (Node Id)-(Shelf #)-(Slot #)-(Port #)-(STS #)-BWC(BWC ID)
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-ALL	No Comment Defined.
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-24}-ALL	No Comment Defined.
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-24}-BWC{VIDSUB}	No Comment Defined.
N{1-255}-{1-6}-{CSA,CSB}-{1}-ALL	All Link Bandwidth Constraints on a RAP OCn port.
N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-ALL	All Link Bandwidth Constraints on an STS path on a RAP-OC card.
N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-BWC{1-100,TDM,VOD}	Link Bandwidth Constraint on an STS path in a RAP OCn port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port #)-(STS #)-BWC(BWC ID)

LinkBwcVidSubAid

Link Bandwidth Constraint Access Identifier for ranging. Identifies the Link Bandwidth Constraint to be operated upon.

Pattern	Description
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N{1-255}-{1-6}-{1-20}-{1-24}-CH{0-1}-BWC{VIDSUB}	The address of a Video Subscriber Bandwidth Constraint on a PGAP ADSL channel. Format = (Node Id)-(Shelf #)-(Slot #)-PGAP ADSL Port-ADSLCHAN-BWC(BWC ID)
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-24}-BWC{VIDSUB}	The address of a Video Subscriber Bandwidth Constraint on a ONT Port. Format = (Node Id)-(Shelf #)-(Slot #)-Port-ONT-ONTPort-BWC(BWC ID)

LogAid

Log Alarm Access Identifier.

Pattern	Description
N{1-255}-{1-6}-{1-9999}	Node-Shelf-(Log Entry #)

LogRngAid

Log Alarm Ranging Access Identifier.

Pattern	Description
N{1-255}-{1-6}-ALL	All Log entries on a shelf.
N{1-255}-{1-6}-{1-9999}	Node-Shelf-(Log Entry #)

MacAid

Media Access Control identifier. The address for a device as it is identified at the MAC layer in the network architecture.

Pattern	Description
{0-9,A-F}{0-9,A-F}-{0-9,A-F}{0-9,A-F}-{0-9,A-F}{0-9,A-F}-{0-9,A-F}{0-9,A-F}-{0-9,A-F}{0-9,A-F}	Each set of hexadecimal numbers between the dashes corresponds to a octet in the MAC address.

MacRngAid

Media Access Control identifier. The ranging address for a device as it is identified at the MAC layer in the network architecture.

Pattern	Description
ALL	ALL MAC addresses
{0-9,A-F}{0-9,A-F}-{0-9,A-F}{0-9,A-F}-{0-9,A-F}{0-9,A-F}-{0-9,A-F}{0-9,A-F}-{0-9,A-F}{0-9,A-F}	Each set of hexadecimal numbers between the dashes corresponds to a octet in the MAC address

MsAid

Management/Maintenance Slot Access Identifier. The location of a Administration and Maintenance Processor (AMP).

Pattern	Description
N{1-255}-{1-6}-MS	Management/Maintenance Slot Format = (Node Id)-(Shelf #)-MS

MsAllAid

Management/Maintenance Slot Access Identifier. The location of the Administration and Maintenance Processor (AMP).

Pattern	Description
ALL	All AMP/ATP slots in the network.
N{1-255}-{1-6}-MS	Management/Maintenance Slot Format = (Node Id)-(Shelf #)-MS

MsNoneAid

Management/Maintenance Slot Access Identifier. The location of the Administration and Maintenance Processor (AMP) which will provide the EOC channel for the GR-303 Interface Group.

Pattern	Description
NONE	Not provisioned.
N{1-255}-{1-6}-MS	Management/Maintenance Slot Format = (Node Id)-(Shelf #)-MS

MsRngAid

Range Retrieval of All Ethernet Ports on the Administration and Maintenance Processor (AMP).

Pattern	Description
N{1-255}-{1-5}- MS-ALL	All ports under the Management/Maintenance Slot (AMP)

NodeAid

Node Access Identifier. The address of a specified node within the C7 network.

The access identifiers consist of:

(Node Id)

Pattern	Description
N{1-255}	A node name.

NodeAllAid

Node-All Access Identifier. The address used for ranged requests of all entities under a node.

Pattern	Description
N{1-255}-ALL	N{Node #}-ALL

NoneAid

None Access Identifier. The AID used to unset an AID value.

Pattern	Description
NONE	NONE

OWAid

Order Wire Access Identifier.

Pattern	Description
N{1-255}-{1-6}- MS-	Orderwire port on an AMP card.

{SECOW,LINEOW}	
N{1-255}-{1-6}-{1-20}-{1-4}-{SECOW,LINEOW}	Order Wire Port on a OC card.
N{1-255}-{1-6}-{CSA,CSB}-{1}-{SECOW,LINEOW}	Order Wire Port on a RAP-OC card.

Oc48Aid

OC48 Access Identifier. This identifies an optical carrier level 48 (OC48) port.

The access identifiers consist of:

(Node Id)-(Shelf #)-(Slot Id)-(Port Id)

Pattern	Description
N{1-255}-{1-6}-{1-20,CSA,CSB}-{1}	OC48 Port on a OC48-1 card or a control slot which contains a RAP-OC3/12/48 provisioned as a OC48 port.

Oc48RngAid

OC48 Access Identifier. This identifies an optical carrier level 48 (OC48) port.

The access identifiers consist of:

(Node Id)-(Shelf #)-(Slot Id)-(Port Id)

Pattern	Description
N{1-255}-{1-6}-ALL	All OC48 ports in a shelf
N{1-255}-{1-6}-{1-20,CSA,CSB}-ALL	The port on an OC48-1 or Rap-OC card.
N{1-255}-{1-6}-{1-20,CSA,CSB}-{1}	OC48 Port on a OC48-1 card or a control slot which contains a RAP-OC3/12/48 provisioned as a OC48 port.

OntAid

Optical Network Termination Access Identifier. BPON supports 2 PON ports and 32 ONTs per PON. GPON supports 4 PON ports and 64 ONTs per PON.

Pattern	Description
N{1-255}-{1-5}-{1-	ONT Identifier. Format = (Node Id)-(Shelf #)-

20}-{1-4}-{1-64}	(OLT Slot #)-(Pon #)-(ONT number)
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OntAid-ALL

All ports on an ONT. BPON supports 2 PON ports and 32 ONTs per PON. GPON supports 4 PON ports and 64 ONTs per PON.

Pattern	Description
N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{ALL}	Format = (Node Id)-(Shelf #)-(OLT Slot #)-(Pon #)-(ONT number)-ALL

OntEthEpIdxAid

Ethernet Endpoint Index on an ONT Ethernet Port. BPON supports 2 PON ports and 32 ONTs per PON. GPON supports 4 PON ports and 64 ONTs per PON. VOD endpoints are included in this pattern.

Pattern	Description
N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12}-{1-12,20-30}	No Comment Defined.

OntEthEpIdxAid-ALL

All Ethernet Endpoint Indices on an ONT Ethernet Port. BPON supports 2 PON ports and 32 ONTs per PON. GPON supports 4 PON ports and 64 ONTs per PON.

Pattern	Description
N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12}-ALL	N{Node #}-{Shelf #}-{Slot #}-{PON #}-{ONT #}-{Eth Port #}-ALL

OntEthVodEpIdx

Ethernet Dynamic VOD Endpoint Index on an ONT Ethernet Port.

Pattern	Description
N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12}-{20-30}	Ethernet Dynamic VOD Endpoint Index on an ONT Ethernet Port.

OntNtwkRngAid

Optical Network Termination Port AID for retrievals. BPON supports 2 PON ports and 32 ONTs per PON. GPON supports 4 PON ports and 64 ONTs per PON.

Pattern	Description
ALL	All ONTs in the system.
N{1-255}-ALL	All ONTs under a node.
N{1-255}-{1-5}-ALL	All ONTs under a shelf.
N{1-255}-{1-5}-{1-20}-ALL	All ONTs under an OLT.
N{1-255}-{1-5}-{1-20}-{1-4}-ALL	All ONTs on a PON.
N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}	Format = (Node Id)-(Shelf #)-(OLT Slot #)-(Pon #)-(ONT number)-(Port #)

OntPortAid

Optical Network Termination Port AID. BPON supports 2 PON ports and 32 ONTs per PON. GPON supports 4 PON ports and 64 ONTs per PON.

Pattern	Description
N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-24}	Format = (Node Id)-(Shelf #)-(OLT Slot #)-(Pon #)-(ONT number)-(Port #)

OntPortNtwkRngAid

Optical Network Termination Port AID. BPON supports 2 PON ports and 32 ONTs per PON. GPON supports 4 PON ports and 64 ONTs per PON.

Pattern	Description
ALL	All ONT ports in the system.
N{1-255}-ALL	All ONT Ports under a node.
N{1-255}-{1-5}-ALL	All ONT Ports under a shelf.
N{1-255}-{1-5}-{1-20}-ALL	All ONT Ports under an OLT.
N{1-255}-{1-5}-{1-20}-{1-4}-ALL	All ONT ports under a PON Port.
N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-ALL	All ports on an ONT.
N{1-255}-{1-5}-{1-	

$20\}-\{1-4\}-\{1-64\}-\{1-24\}$	Format = (Node Id)-(Shelf #)-(OLT Slot #)-(Pon #)-(ONT number)-{Port #}
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OntPortRngAid

Optical Network Termination Port AID. BPON supports 2 PON ports and 32 ONTs per PON. GPON supports 4 PON ports and 64 ONTs per PON.

Pattern	Description
$N\{1-255\}-\{1-5\}-ALL$	All ONT Ports under a shelf.
$N\{1-255\}-\{1-5\}-\{1-20\}-ALL$	All ONT Ports under an OLT.
$N\{1-255\}-\{1-5\}-\{1-20\}-\{1-4\}-ALL$	All ONT ports under a PON Port.
$N\{1-255\}-\{1-5\}-\{1-20\}-\{1-4\}-\{1-64\}-ALL$	All ports on an ONT.
$N\{1-255\}-\{1-5\}-\{1-20\}-\{1-4\}-\{1-64\}-\{1-24\}$	Format = (Node Id)-(Shelf #)-(OLT Slot #)-(Pon #)-(ONT number)-{Port #}

OntProfAid

Optical Network Termination Profile Access Identifier.

Pattern	Description
$\{1-50\}$	One of the fifty configurable ONT profiles.

OntProfSystemAid

System Defined profiles for CALIX ONTs.

Pattern	Description
ONT710	Calix Networks ONT 710 profile. This is a system defined profile. This cannot be deleted or edited.
ONT711	Calix Networks ONT 711 profile. This is a system defined profile. This cannot be deleted or edited.
ONT712	Calix Networks ONT 712 profile. This is a system defined profile. This cannot be deleted or edited
ONT714	Calix Networks ONT 714 profile. This is a system defined profile. This cannot be deleted or edited
ONT720	Calix Networks ONT 720 profile. This is a system

	defined profile. This cannot be deleted or edited.
ONT721	Calix Networks ONT 721 profile. This is a system defined profile. This cannot be deleted or edited.
ONT722	Calix Networks ONT 722 profile. This is a system defined profile. This cannot be deleted or edited.
ONT724	Calix Networks ONT 724 profile. This is a system defined profile. This cannot be deleted or edited.
ONT740	Calix Networks ONT 740 profile. This is a system defined profile. This cannot be deleted or edited.

OntRngAid

Optical Network Termination Access Identifier. BPON supports 2 PON ports and 32 ONTs per PON. GPON supports 4 PON ports and 64 ONTs per PON.

Pattern	Description
N{1-255}-{1-5}-ALL	All ONTs under an Shelf. Format = (Node Id)-(Shelf #)-ALL
N{1-255}-{1-5}-{1-20}-ALL	All ONTs under an OLT. Format = (Node Id)-(Shelf #)-(OLT Slot #)-ALL
N{1-255}-{1-5}-{1-20}-{1-4}-ALL	All ONTs under a PON. Format = (Node Id)-(Shelf #)-(OLT Slot #)-(Pon #)-ALL
N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}	ONT Identifier. Format = (Node Id)-(Shelf #)-(OLT Slot #)-(Pon #)-(ONT number)

OntUaAid

Optical Network Termination Access Identifier for unassigned ONTs.

Pattern	Description
N{1-255}-{1-5}-{1-20}-{1-4}-UA	ONT Identifier. Format = (Node Id)-(Shelf #)-(OLT Slot #)-(Pon #)-UA

OuiAid

Organizationally Unique Identifier. The OUI is first 3 octets of a MAC address and identifies the vendor.

Pattern	Description
{0-9,A-F}{0-9,A-F}-{0-9,A-F}{0-9,A-F}-{0-9,A-F}{0-9,A-F}	Each set of hexadecimal numbers between the dashes corresponds to a octet in the OUI address. The OUI address 00-00-00 is disallowed.

OuiAidRng

Organizationally Unique Identifier Range. OUI is first 3 octets of a MAC address and identifies the vendor.

Pattern	Description
ALL	ALL Oui Addresses
{0-9,A-F}{0-9,A-F}-{0-9,A-F}{0-9,A-F}-{0-9,A-F}{0-9,A-F}	Each set of hexadecimal numbers between the dashes corresponds to a octet in the OUI address. The OUI address 00-00-00 is disallowed

PacketVlanAid

Packet VLAN Access Identifier.

Pattern	Description
N{1-255}-{1-5}-VB{1-20}-VLAN{1-4094}	Identifies a VLAN within a VB on a shelf. Format = N(Node #)-(Shelf #)-VB(VB #)-VLAN(VLAN #)

PacketVlanRngAid

Packet Vlan Range Access Identifier.

Pattern	Description
N{1-255}-ALL	All VLANs under the node. Format = N(Node #)-ALL.
N{1-255}-{1-5}-ALL	All VLANs under the shelf. Format = N(Node #)-(Shelf #) -ALL.
N{1-255}-{1-5}-VB{1-20}-ALL	All VLANs under a specified virtual bridge. Format = N(Node #)-(Shelf #)-VB(VB #)-ALL.
N{1-255}-{1-5}-VB{1-20}-VLAN{1-4094}	Identifies a VLAN within a VB on a shelf. Format = (Node Id)-(Shelf #)-VB(VB #)-VLAN(VLAN #)

PktVlanPortRngAid

Packet Vlan Port Range Retrieval Access Identifier.

Pattern	Description
N{1-255}-{1-5}-	Format = N(Node #)-(Shelf #)-VB(VB #)-ALL.

VB{1-20}-ALL	
N{1-255}-{1-5}-VB{1-20}-{1-7960}	Format = (Node Id)-(Shelf #)-VB(VB #)-(Index #)
N{1-255}-{1-6}-ALL	Format = N(Node #)-(Shelf #)-ALL
N{1-255}-{1-6}-{1-20}-ALL	Format = N(Node #)-(Shelf #)-(Slot #)-ALL
N{1-255}-{1-6}-{1-20}-{1-6}	Ethernet Physical Port. Format = N(Node #)-(Shelf #) -(Slot #)-(Port #)

PortCsAid

Control Slot Port Access Identifier. The address of a port on a control slot.

Pattern	Description
N{1-255}-{1-5}-{CSA,CSB}-{1}	N{Node #}-{Shelf #}-{Control Slot Id}-{Port #}

PortCsAid-ALL

Control Slot Port (-All) Access Identifier. The address used for ranged requests of all entities under the port on a control slot.

Pattern	Description
N{1-255}-{1-5}-{CSA,CSB}-{1}-ALL	N{Node #}-{Shelf #}-{Control Slot Id}-{Port #}-ALL

PortLuAid-ALL

Line Unit Port (-All) Access Identifier. The address used for ranged requests of all entities under the port on a line unit slot.

Pattern	Description
N{1-255}-{1-5}-{1-20}-{1-24}-ALL	N{Node #}-{Shelf #}-{Slot #}-{Port #}-ALL

PortNoneAid

Port Access Identifier with NONE as an option. The location of the of any port within the C7 or explicitly no port at all.

Pattern	Description
NONE	No port. There is explicitly no port associated.
N{1-255}-{1-6}-{1-20}-{1-24}	Identifier of a port on any generic line unit which can have up to 24 ports. Format = (Node Id)-(Shelf #)-(Slot Id)-(Port Id)
N{1-255}-{1-6}-{CSA,CSB}-{1}	Identifier of a port on a RAP card.

Pp1LuRngAid

Line Unit Pseudo-Port Ranging AID

Pattern	Description
N{1-255}-{1-6}-ALL	All Pseudo-Ports on a shelf.
N{1-255}-{1-6}-{1-20}-ALL	All Pseudo-Ports on a slot.
N{1-255}-{1-6}-{1-20}-PP1	A Pseudo-Port.

Pp1RngAid

Pseudo-Port Ranging AID

Pattern	Description
N{1-255}-{1-6}-ALL	All pseudo-ports on a shelf.
N{1-255}-{1-6}-{1-20,CSA,CSB}-ALL	All pseudo-ports on a slot.
N{1-255}-{1-6}-{1-20,CSA,CSB}-PP1	Pseudo-port. The access identifier of the form of (Node Id)-(Shelf #)-(Slot #)-PP(Port Id)

PpAid

Pseudo-Port Access Identifier. This identifies a pseudo-port entity.

Pattern	Description
N{1-255}-{1-6}-{1-20,CSA,CSB}-PP{1-2}	N{Node #}-{Shelf #}-{Control Slot Id}-PP{Port #}

PpCsAid-ALL

Control Slot Pseudo-Port (-All) Access Identifier. The address used for ranged requests of all entities under the pseudo-port on a control slot.

Pattern	Description
N{1-255}-{1-5}-{CSA,CSB}-PP{1-2}-ALL	N{Node #}-{Shelf #}-{Control Slot Id}-PP{Port #}-ALL

PpLuAid-ALL

Line Unit Pseudo-Port (-All) Access Identifier. The address used for ranged requests of all entities under the pseudo-port on a line unit slot.

Pattern	Description
N{1-255}-{1-5}-{1-20}-PP{1-2}-ALL	N{Node #}-{Shelf #}-{Slot #}-PP{Port #}-ALL

PpRngAid

IP Interface Ranging AID.

Pattern	Description
ALL	All pseudo-ports in the system.
N{1-255}-ALL	All pseudo-ports on a node.
N{1-255}-{1-6}-ALL	All pseudo-ports on a shelf.
N{1-255}-{1-6}-{1-20,CSA,CSB}-ALL	All pseudo-ports on a slot.
N{1-255}-{1-6}-{1-20,CSA,CSB}-PP{1-2}	Pseudo-port. The access identifier of the form of (Node Id)-(Shelf #)-(Slot #)-PP(Port Id)

PplBrAid

Packet Protection Label (PPL) Access Identifier for Bridged protection.

Pattern	Description
N{1-255}-{1-6}-{1-20}-{1-4}-{1-65536}	Identifier of a bridged Packet Protection Label on a line unit. The access identifier of the form of (Node Id)-(Shelf #)-(Slot #)-(Port Id)-(PPL Id)
N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-65536}	Identifier of a bridged Packet Protection Label on a RAP. The access identifier of the form of (Node Id)-(Shelf #)-(RAP Slot #)-(Port Id)-(PPL Id)

PplRngAid

Packet Protection Label (PPL) Access Identifier for Bridged protection.

Pattern	Description
N{1-255}-{1-6}-ALL	All unbridged PPLs on a shelf.
N{1-255}-{1-6}-{1-20,CSA,CSB}-ALL	All unbridged PPLs on a slot.
N{1-255}-{1-6}-{1-20}-{1-4}-ALL	All unbridged PPLs on a line unit port.
N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-ALL	All unbridged PPLs on a LU port STSn.
N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-PPL{1-255}-{1-6}-{1-65536}	Identifier of an unbridged Packet Protection Label on a line unit. The access identifier of the form of (Node Id)-(Shelf #)-(Slot #)-(Port Id)- PPL(Node Id)-(Shelf #)-(PPL Id). The Node Id and Shelf # that comes after PPL indicates the originator of the PPL identifier PPL Id.
N{1-255}-{1-6}-{CSA,CSB}-{1}-ALL	All unbridged PPLs on a RAP port.
N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-ALL	All unbridged PPLs on a Rap Port STSn.
N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-PPL{1-255}-{1-6}-{1-65536}	Identifier of an unbridged Packet Protection Label on a RAP. The access identifier of the form of (Node Id)-(Shelf #)-(RAP Slot #)-(Port Id)- PPL(Node Id)-(Shelf #)-(PPL Id). The Node Id and Shelf # that comes after PPL indicates the originator of the PPL identifier PPL Id.

PplUnbrAid

Packet Protection Label (PPL) Access Identifier for Unbridged protection.

Pattern	Description
N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-PPL{1-255}-{1-6}-{1-65536}	Identifier of an unbridged Packet Protection Label on a line unit. The access identifier of the form of (Node Id)-(Shelf #)-(Slot #)-(Port Id)- PPL(Node Id)-(Shelf #)-(PPL Id). The Node Id and Shelf # that comes after PPL indicates the originator of the PPL identifier PPL Id.
N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-	Identifier of an unbridged Packet Protection Label on a RAP. The access identifier of the form of

48}-PPL{1-255}-{1-6}-{1-65536}	(Node Id)-(Shelf #)-(RAP Slot #)-(Port Id)-PPL(Node Id)-(Shelf #)-(PPL Id). The Node Id and Shelf # that comes after PPL indicates the originator of the PPL identifier PPL Id.
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PppoaAid

This parameter is used to specify the target from which to retrieve PPPoA statistics.

Pattern	Description
N{1-255}-{1-5}-VB{1-20}	Virtual Bridge AID. Format = (Node Id)-(Shelf #)-(Slot #)-VB(VB #)
N{1-255}-{1-6}-{1-20}-PP1	PseudoPort 1 on a Ge-2p card. <i>Note: This option is deprecated beginning with C7 release 5.1, but maintained for CMS TL1 only.</i>
N{1-255}-{1-6}-{1-20}-{1-6}	Port on a Ge-2p card. <i>Note: This option is deprecated beginning with C7 release 5.1, but maintained for CMS TL1 only.</i>

PppoeAcRtrAid

This parameter is used to specify the target of PPPoE commands.

Pattern	Description
N{1-255}-{1-5}-VB{1-20}	Virtual Bridge AID. Format = (Node Id)-(Shelf #)-(Slot #)-VB(VB #)
N{1-255}-{1-6}-{1-20}	Ge-2p slot used to identify the target of PPPoE commands. <i>Note: This option is deprecated beginning with C7 release 5.1, but maintained for CMS TL1 only.</i>
N{1-255}-{1-6}-{1-20}-{1-6}	Ge-2p port used to identify the target of PPPoE commands. <i>Note: This option is deprecated beginning with C7 release 5.1, but maintained for CMS TL1 only.</i>

PppoeAcStatAid

This parameter is used to specify the target for retrieving PPPOEAC statistics.

Pattern	Description
N{1-255}-{1-5}-VB{1-20}	Virtual Bridge AID. Format = (Node Id)-(Shelf #)-(Slot #)-VB(VB #)
N{1-255}-{1-5}-{1-20}	Ge-2p slot used to identify the target of PPPoE commands. <i>Note: This option is deprecated beginning with C7 release 5.1, but maintained for CMS TL1 only.</i>

PppoeRtrAid

This parameter is used to specify the target of some PPPOE commands.

Pattern	Description
N{1-255}-{1-5}-VB{1-20}	Virtual Bridge AID. Format = (Node Id)-(Shelf #)-(Slot #)-VB(VB #)
N{1-255}-{1-6}-{1-20}	A Ge-2p slot. <i>Note: This option is deprecated beginning with C7 release 5.1, but maintained for CMS TL1 only.</i>
N{1-255}-{1-6}-{1-20}-PP1	Ge2p pseudo port. <i>Note: This option is deprecated beginning with C7 release 5.1, but maintained for CMS TL1 only.</i>
N{1-255}-{1-6}-{1-20}-{1-6}	Ge-2p port. <i>Note: This option is deprecated beginning with C7 release 5.1, but maintained for CMS TL1 only.</i>

RmtDevAid

Remote Device Aid

Pattern	Description
N{1-255}-{1-5}-RMT{1-127}	N--RMT

RmtDevDiscAid

Remote Device Discovered Access Identifier - The port on which the remote device has been detected.

Pattern	Description
N{1-255}-{1-6}-MS-{E1,E2,E3}	Remote Devices discovered on AMP Ethernet ports.
N{1-255}-{1-6}-{1-20}-{1-6}	Remote Devices discovered on a OCN on GE port.
N{1-255}-{1-6}-{CSA,CSB}-{1}	Remote Devices discovered on a RAP OCN port.

RmtDevDiscRngAid

Remote Device Discovered Range Access Identifier - The port on which the remote device has been detected.

Pattern	Description
ALL	ALL discovered remoted devices on all ports.
N{1-255}-ALL	ALL discovered remoted devices on all ports under a node.
N{1-255}-{1-6}-ALL	ALL discovered remoted devices on ports under a shelf.
N{1-255}-{1-6}-MS-{E1,E2,E3}	ALL discovered remoted devices on the AMP ethernet port
N{1-255}-{1-6}-{1-20,CSA,CSB}-ALL	ALL discovered remoted devices on RAP OCN ports.
N{1-255}-{1-6}-{1-20}-{1-6}	ALL discovered remoted devices on a port.
N{1-255}-{1-6}-{CSA,CSB}-{1}	ALL discovered remoted devices on RAP OCN port.

RmtDevRngAid

Remote Device Range Aid

Pattern	Description
ALL	ALL Remote Devices known to the C7
N{1-255}-ALL	All remote devices known to the C7 under the specified node.
N{1-255}-{1-5}-ALL	All remote devices known to the C7 under the specified shelf.
N{1-255}-{1-5}-RMT{1-127}	Remote Device Aid.

RouterAid

Router AID.

Pattern	Description
N{1-255}-{1-5}-VR{1-20}	A Virtual Router.
N{1-255}-{1-5}-{1-20}	Slot AID for IRC.

SecuTmpltAid

Security Template Access Identifier. This identifies a template for defining the properties of a User ID. The named templates are pre-defined but may be modified. The numbered templates must be created before they are used.

Pattern	Description
COTECH	Central Office TECHnician.
DEFLT	DEFauLT. This is the security template that is used if no security template is specified for an ENT-USER command.
OPTECH	Outside Plant TECHnician.
SRVORD	SeRVice ORDer clerk.
SYSADMIN	SYStem ADMINistrator.
{1-20}	User defined profiles.

SecuTmpltAllAid

Security Template Access Identifier. This identifies a template for defining the properties of a User ID. The named templates are pre-defined but may be modified. The numbered templates must be created before they are used.

This AID contains the 'ALL' option for use by RTRV commands.

Pattern	Description
ALL	All records.
COTECH	Central Office TECHnician.
DEFLT	DEFauLT. This is the security template that is used if no security template is specified for an ENT-USER command.
OPTECH	Outside Plant TECHnician.
SRVORD	SeRVice ORDer clerk.
SYSADMIN	SYStem ADMINistrator.
{1-20}	User defined profiles.

SecuTmpltProvAid

Security Template Access Identifier. This identifies a template for defining the properties of a User ID. These numbered templates must be created before they are used.

Pattern	Description
{1-20}	User defined profiles.

SerialPort

Serial Port Access Identifier. This identifier either of the two serial ports which can reside in a C7 shelf.

Pattern	Description
N{1-255}-{1-6}-MS-{S1,S2}	The address of a serial port on an assigned shelf. Format = (Node Id)-(Shelf #)-(Serial Port Id)

ShelfAid

Shelf Access Identifier. The identifier which uniquely identifies a shelf within a node in a C7 System.

Pattern	Description
N{1-255}-{1-5}	N{Node #}-{Shelf #}

ShelfAid-ALL

Shelf (-All) Access Identifier. The address used for ranged requests of all entities under a shelf.

Pattern	Description
N{1-255}-{1-5}-ALL	N{Node #}-{Shelf #}-ALL

ShelfOrSlotAid

Shelf or Slot Access Identifier. The identifier which uniquely identifies a shelf or line unit slot within a node in a C7 System.

Pattern	Description
N{1-255}-{1-6}	The address of a shelf. Format = (Node Id)-(Shelf #)
N{1-255}-{1-6}-{1-20,CSA,CSB}	The address of the generic slots which can contain any of the line units or a RAP.

SipT0PortAid

SIP T0 Port Access Identifier

Pattern	Description
N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-	Format = (Node Id)-(Shelf #)-(OLT Slot #)-(Pon #)-(ONT number)-SIP{Port #}

SIP{1-12}

SipT0PortNtwkRngAid

SIP T0 Port Access Identifiers used for ranging.

Pattern	Description
ALL	All SIPT0 ports in the system.
N{1-255}-ALL	All SIPT0 Ports in a node.
N{1-255}-{1-5}-ALL	All SIPT0 Ports under a shelf.
N{1-255}-{1-5}-{1-20}-ALL	All SIPT0 Ports under a slot.
N{1-255}-{1-5}-{1-20}-{1-4}-ALL	All SIPT0 Ports under a PON.
N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-ALL	All SIPT0 Ports under an ONT.
N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-SIP{1-12}	Format = (Node Id)-(Shelf #)-(OLT Slot #)-(Pon #)-(ONT number)-SIP{Port #}

SipT0PortRngAid

SIP T0 Port Access Identifiers used for ranging.

Pattern	Description
N{1-255}-{1-5}-ALL	All SIPT0 Ports under a shelf.
N{1-255}-{1-5}-{1-20}-ALL	All SIPT0 Ports under a slot.
N{1-255}-{1-5}-{1-20}-{1-4}-ALL	All SIPT0 Ports under a PON.
N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-ALL	All SIPT0 Ports under an ONT.
N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-SIP{1-12}	Format = (Node Id)-(Shelf #)-(OLT Slot #)-(Pon #)-(ONT number)-SIP{Port #}

SipVcgNextIndexAid

SIP VCG Interface Group NEXT INDEX AID.

Pattern	Description
N{1-255}-{1-6}-IG{1-15}-NEXT	Wild card Index value for a SIP VCG Interface Group. This value will cause the system to automatically select the next available index. Format = (Node Id)-(Shelf #)-(IG Id)-NEXT

SixPortLuAid

6-Port Line Unit Access Identifier.

Pattern	Description
N{1-255}-{1-6}-{1-20}-{1-6}	Line unit port. The access identifier of the form of (Node Id)-(Shelf #)-(Slot #)-(Port Id)

SixPortLuNtwkRngAid

6-Port Line Unit Ranging Access Identifier.

Pattern	Description
ALL	All ports in the system.
N{1-255}-ALL	All ports in a node.
N{1-255}-{1-6}-ALL	All ports on a shelf.
N{1-255}-{1-6}-{1-20}-ALL	All ports on a slot.
N{1-255}-{1-6}-{1-20}-{1-6}	Line unit port. The access identifier of the form of (Node Id)-(Shelf #)-(Slot #)-(Port Id)

SixPortLuRngAid

6-Port Line Unit Ranging Access Identifier.

Pattern	Description
N{1-255}-{1-6}-ALL	All ports on a shelf.
N{1-255}-{1-6}-{1-20}-ALL	All ports on a slot.
N{1-255}-{1-6}-{1-20}-{1-6}	Line unit port. The access identifier of the form of (Node Id)-(Shelf #)-(Slot #)-(Port Id)

SlotCsAid

Control Slot Access Identifier. These can hold any type of RAP card (e.g. RAP-OC3/12/48, RAP, etc.). There are two of these slots per shelf where the left one is the A side and the right one is the B side.

Pattern	Description
N{1-255}-{1-5}-{CSA,CSB}	N{Node #}-{Shelf #}-{Control Slot Id}

SlotCsAid-ALL

Control Slot (-All) Access Identifier. The address used for ranged requests of all entities under a control slot.

Pattern	Description
N{1-255}-{1-5}-{CSA,CSB}-ALL	N{Node #}-{Shelf #}-{Control Slot Id}-ALL

SlotFtAid

Fan Tray Slot Access Identifier. This slot contains the standard Fan Tray Assembly.

Pattern	Description
N{1-255}-{1-5}-FT	N{Node #}-{Shelf #}-FT

SlotIgAid

Interface Group Access Identifier. The access identifier of a GR-8 Interface Group within a slot.

Pattern	Description
N{1-255}-{1-6}-{1-20}-IG{1-6}	Interface Group. Format = (Node Id)-(Shelf #)-(Slot #)-(IG Id)

SlotIgRngAid

Interface Group Access Identifier. The access identifier of a GR-8 Interface Group within a slot.

Pattern	Description
ALL	All Interface Groups in the system.
N{1-255}-ALL	All Interface Groups on a node.
N{1-255}-{1-6}-	All Interface Groups on a shelf.

ALL	
N{1-255}-{1-6}-{1-20}-ALL	All Interface Groups on a slot.
N{1-255}-{1-6}-{1-20}-IG{1-6}	Interface Group. Format = (Node Id)-(Shelf #)-(Slot #)-(IG Id)

SlotLuAid

Line Unit Slot Access Identifier. These are generic slots which can hold any type of service or transport cards (e.g. OC12-4-IR, RPOTS-24, etc.).

Pattern	Description
N{1-255}-{1-5}-{1-20}	N{Node #}-{Shelf #}-{Slot #}

SlotLuAid-ALL

Line Unit Slot (-All) Access Identifier. The address used for ranged requests of all entities under a line unit slot.

Pattern	Description
N{1-255}-{1-5}-{1-20}-ALL	N{Node #}-{Shelf #}-{Slot #}-ALL

SlotMsAid

Management Slot Access Identifier. These can hold any type of management card (e.g. AMP, ATP, etc.).

Pattern	Description
N{1-255}-{1-5}-MS	N{Node #}-{Shelf #}-MS

SlotMspAid

Metallic Services Protection Slot Access Identifier. The location where the metallic services protection units can be inserted.

Pattern	Description
N{1-255}-{1-5}-MSP{A,B}	N{Node #}-{Shelf #}-MSP{MSP Id}

StpGroupAid

Spanning Tree Group Aid. There is only one Spanning Tree Group per Virtual Bridge. All ports associated with the Virtual Bridge are enabled for RSTP and are automatically associated with the STP group.

Pattern	Description
N{1-255}-{1-5}-VB{1-20}-STP{1-20}	Node#-Shelf#- VirtualBridge#- SpanningTreeGroup#

StpGroupRngAid

Spanning Tree Group Range Aid. This is used to retrieve a range of spanning tree groups in the system. There is only one Spanning Tree Group per Virtual Bridge. All ports associated with the Virtual Bridge are enabled for RSTP and are automatically associated with the STP group.

Pattern	Description
ALL	All Spanning Tree Groups in the system.
N{1-255}-ALL	All Spanning Tree Groups in a given node.
N{1-255}-{1-5}-ALL	All Spanning Tree Groups in a given shelf.
N{1-255}-{1-5}-VB{1-20}-ALL	All Spanning Tree Groups in a given virtual bridge.
N{1-255}-{1-5}-VB{1-20}-STP{1-20}	A specific Spanning Tree Group.

StsAid

STS Access Identifier. This identifies a synchronous transport signal (STS) path entity.

Pattern	Description
N{1-255}-{1-6}-{1-20}-{1-12}-{1-48}	STS path in an OCn or EC1 card. STS1 can be any number between 1 and 48. However, STS3c/12c/48c can only provisioned as particular STS numbers: - STS3c can be 1, 4, 7, ..., 46 between 1 and 48. - STS12c can be 1, 13, 25 and 37. - STS48c can only be 1.
N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}	STS path in a RAP-OC card.

StsCrsAid

STS Access Identifier.

This identifies the synchronous transport signal (STS) path entity.

(Combined StsAid & Sts1CrsAid)

Pattern	Description
N{1-255}-{1-6}-VTI{1-80}-{1-21}	STS on a VTI. Format = (Node Id)-(Shelf #)-(VTI #)-(STS #)
N{1-255}-{1-6}-{1-20}-{1-12}	STS1 path in a DS3-12 card.
N{1-255}-{1-6}-{1-20}-{1-12}-{1-48}	STS path in an OCn or EC1 card. STS1 can be any number between 1 and 48. However, STS3c/12c/48c can only provisioned as particular STS numbers: - STS3c can be 1, 4, 7, ..., 46 between 1 and 48. - STS12c can be 1, 13, 25 and 37. - STS48c can only be 1.
N{1-255}-{1-6}-{CSA,CSB}-{1}	Identifier of a port on a RAP card.
N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}	STS path in a RAP-OC card.

StsCrsRngAid

STS1 Access Identifier. This identifies the synchronous transport signal level 1 (STS1) path entity.

Pattern	Description
N{1-255}-{1-6}-ALL	All STS paths on a shelf.
N{1-255}-{1-6}-VTI{1-80}-ALL	All STS paths on a VTI.
N{1-255}-{1-6}-VTI{1-80}-{1-21}	STS on a VTI. Format = (Node Id)-(Shelf #)-(VTI #)-(STS #)
N{1-255}-{1-6}-{1-20,CSA,CSB}-ALL	All STS paths on a slot.
N{1-255}-{1-6}-{1-20}-{1-12}	STS1 path in a DS3-12 card.
N{1-255}-{1-6}-{1-20}-{1-12}-ALL	All STS paths on a port.
N{1-255}-{1-6}-{1-20}-{1-12}-{1-48}	STS path in an OCn or EC1 card. STS1 can be any number between 1 and 48. However, STS3c/12c/48c can only provisioned as particular STS numbers: - STS3c can be 1, 4, 7, ..., 46 between 1 and 48. - STS12c can be 1, 13, 25 and 37. - STS48c can only be 1.

N{1-255}-{1-6}-{CSA,CSB}-{1}	Identifier of a port on a RAP card.
N{1-255}-{1-6}-{CSA,CSB}-{1}-ALL	All STS paths on a RAP-OC card.
N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}	STS path in a RAP-OC card.

StsCsAid-ALL

Control Slot STSn (-All) Access Identifier. The address used for ranged requests of all entities under an STSn on a control slot.

Pattern	Description
N{1-255}-{1-5}-{CSA,CSB}-{1}-{1-48}-ALL	N{Node #}-{Shelf #}-{Control Slot Id}-{Port #}-{STS #}-ALL

StsLuAid-ALL

Line Unit STSn (-All) Access Identifier. The address used for ranged requests of all entities under an STSn on a line unit slot.

Pattern	Description
N{1-255}-{1-5}-{1-20}-{1-4}-{1-48}-ALL	N{Node #}-{Shelf #}-{Slot #}-{Port #}-{STS #}-ALL

StsNtwkRngAid

STS Ranging Access Identifier.

This identifies the synchronous transport signal (STS) path entity.

Pattern	Description
ALL	All STS paths in the system.
N{1-255}-ALL	All STS paths in a node.
N{1-255}-{1-6}-ALL	All STS paths on a shelf.
N{1-255}-{1-6}-{1-20,CSA,CSB}-ALL	All STS paths on a slot.
N{1-255}-{1-6}-{1-20}-{1-12}-ALL	All STS paths on a port.

N{1-255}-{1-6}-{1-20}-{1-12}-{1-48}	STS path in an OCn or EC1 card. STS1 can be any number between 1 and 48. However, STS3c/12c/48c can only provisioned as particular STS numbers: - STS3c can be 1, 4, 7, ..., 46 between 1 and 48. - STS12c can be 1, 13, 25 and 37. - STS48c can only be 1.
N{1-255}-{1-6}-{CSA,CSB}-{1}-ALL	All STS paths on a RAP-OC card.
N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}	STS path in a RAP-OC card.

StsRngAid

STS Ranging Access Identifier.

This identifies the synchronous transport signal (STS) path entity.

Pattern	Description
N{1-255}-{1-6}-ALL	All STS paths on a shelf.
N{1-255}-{1-6}-{1-20,CSA,CSB}-ALL	All STS paths on a slot.
N{1-255}-{1-6}-{1-20}-{1-12}-ALL	All STS paths on a port.
N{1-255}-{1-6}-{1-20}-{1-12}-{1-48}	STS path in an OCn or EC1 card. STS1 can be any number between 1 and 48. However, STS3c/12c/48c can only provisioned as particular STS numbers: - STS3c can be 1, 4, 7, ..., 46 between 1 and 48. - STS12c can be 1, 13, 25 and 37. - STS48c can only be 1.
N{1-255}-{1-6}-{CSA,CSB}-{1}-ALL	All STS paths on a RAP-OC card.
N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}	STS path in a RAP-OC card.

SubIfBindingAid

The command AID defines a physical location scope via an AID which can be NTWK, Node, Shelf, Slot or Port.

Pattern	Description
NTWK	NTWK is used to bind any physical location on a given system to a specific IP address.

N{1-255}	AID used to bind any physical location on a given node to an IP address.
N{1-255}-{1-5}	AID used to bind any physical location on a given shelf to an IP address.
N{1-255}-{1-5}-{1-20}	AID used to bind any physical location on a given slot to an IP address.
N{1-255}-{1-5}-{1-20}-{1-24}	AID used to bind a line unit port to an IP address.
N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-{1-12}	Ethernet Port on an Optical Network Termination (ONT). Format = (Node Id)-(Shelf #)-(OLT Slot #)-(Pon #)-(ONT number)-(Port Id)
N{1-255}-{1-5}-{CSA,CSB}	AID used to bind a physical location on a Control Slot to an IP address.
N{1-255}-{1-5}-{CSA,CSB}-{1}	AID used to bind a Control Slot Port to an IP address.

SubIfBindingRng

Sub Interface Binding Ranging Access Identifier.

This AID is used to retrieve bindings on a physical location or a range of physical locations.

Pattern	Description
ALL	retrieve all bindings that currently exist on a given system.
NTWK	NTWK is used to bind any physical location on a given system to a specific IP address.
N{1-255}	AID used to bind any physical location on a given node to an IP address.
N{1-255}-ALL	AID used to retrieve sub-interface bindings on any physical location on all shelves.
N{1-255}-{1-5}	AID used to bind any physical location on a given shelf to an IP address.
N{1-255}-{1-5}-ALL	AID used to retrieve sub-interface bindings on any physical location on all slots on a given shelf.
N{1-255}-{1-5}-{1-20}	AID used to bind any physical location on a given slot to an IP address.
N{1-255}-{1-5}-{1-20}-ALL	AID used to retrieve sub-interface bindings on all ports on a given shelf.
N{1-255}-{1-5}-{1-20}-{1-24}	AID used to bind a line unit port to an IP address.
N{1-255}-{1-5}-{1-20}-{1-4}-ALL	All SubIf bindings under an PON.
N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-ALL	All SubIf bindings under an ONT.
N{1-255}-{1-5}-{1-	

20}-{1-4}-{1-64}-{1-24}	AID used to bind an ONT Port to an IP address.
N{1-255}-{1-5}-{CSA,CSB}	AID used to bind any physical location on a Control Slot to an IP address.
N{1-255}-{1-5}-{CSA,CSB}-{1}	AID used to bind a Control Slot Port to an IP address.

SysAid

System AID. This AID is used for some system-level objects.

Pattern	Description
SYS	System-level.

T0CrvAid

DS0 Crv Access Identifier. This identifies a DS0 port entity which can be assigned to CRVs.

Pattern	Description
N{1-255}-{1-6}-{1-20}-{1-24}	DS0 port. Format = (Node Id)-(Shelf #)-(Slot #)-(RPOTS Port Id)

T1CrsAid

DS1 Port Access Identifier. This identifies a DS1 port entity.

Pattern	Description
N{1-255}-{1-6}-{1-20}-IMA{1-16}-VP{0-4095}-VC{32-65535}	VC in a VP in an IMA Group. Format = (Node Id)-(Shelf #)-(Slot #)-(IMA Group #)-VP(VP Id)-VC(VC Id)
N{1-255}-{1-6}-{1-20}-{1-12}	T1 or HDSL port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)
N{1-255}-{1-6}-{1-20}-{1-12}-VP{0-4095}-VC{32-65535}	VC in a VP for a DS3 in a DS3-12p card, or a VC in a VP for a DS1 in a DS1-12, T1-6, T1-6-A+T or HDSL card. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)-VP(VP Id)-VC(VC Id)
N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-VP{0-4095}-VC{32-65535}	VC in a VP in an STS on an OC card. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)-(STS Id)-VP(VP Id)-VC(VC Id)
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-24}	Port on an Optical Network Termination (ONT). Format = (Node Id)-(Shelf #)-(OLT Slot #)-(Pon #)-(ONT number)-(Port Id)

N{1-255}-{1-6}-{ {CSA,CSB}-{1}-{1- 48}-VP{0-4095}- VC{32-65535}}	VC in a VP in an STS on a RAP-OC card. Format = (Node Id)-(Shelf #)-(Rap Slot #)-(Port Id)-(STS Id)-VP(VP Id)-VC(VC Id)
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T1CrsRngAid

DS1 Port Range Access Identifier.

This identifies a DS1 port entity.

Pattern	Description
N{1-255}-{1-6}- ALL	All VCs, DS1 and HDSL ports on a shelf.
N{1-255}-{1-6}-{1- 20}-ALL	All VCs, DS1 and HDSL ports on a slot.
N{1-255}-{1-6}-{1- 20}-IMA{1-16}- ALL	All VCs on an IMA Group.
N{1-255}-{1-6}-{1- 20}-{1-12}	T1 or HDSL port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)
N{1-255}-{1-6}-{1- 20}-{1-12}-ALL	All VCs on a port.
N{1-255}-{1-6}-{1- 20}-{1-12}-VP{0- 4095}-ALL	All VCs on a VP on a port.
N{1-255}-{1-6}-{1- 20}-{1-12}-VP{0- 4095}-VC{32- 65535}	VC in a VP for a DS3 in a DS3-12p card, or a VC in a VP for a DS1 in a DS1-12, T1-6 or T1-6A+T card. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)-VP(VP Id)-VC(VC Id)
N{1-255}-{1-6}-{1- 20}-{1-4}-{1-48}- ALL	All VCs in an STS on an OC card.
N{1-255}-{1-6}-{1- 20}-{1-4}-{1-48}- VP{0-4095}-ALL	All VCs in a VP in an STS on an OC card.
N{1-255}-{1-6}-{1- 20}-{1-4}-{1-48}- VP{0-4095}-VC{32- 65535}	VC in a VP in an STS on an OC card. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)-(STS Id)-VP(VP Id)-VC(VC Id)
N{1-255}-{1-6}-{1- 20}-{1-4}-{1-64}- ALL	All ports on an Optical Network Termination (ONT).
N{1-255}-{1-6}-{1- 20}-{1-4}-{1-64}-{ 1-12}	Port on an Optical Network Termination (ONT). Format = (Node Id)-(Shelf #)-(OLT Slot #)-(Pon #)-(ONT number)-(Port Id)
N{1-255}-{1-6}- {CSA,CSB}-ALL	All VCs on a RAP-OC card.

N{1-255}-{1-6}-{CSA,CSB}-{1}-ALL	All VCs on the port on a RAP-OC card.
N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-ALL	All VCs in an STS on a RAP-OC card.
N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-VP{0-4095}-ALL	All VCs in a VP in an STS on a RAP-OC card.
N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-VP{0-4095}-VC{32-65535}	VC in a VP in an STS on a RAP-OC card. Format = (Node Id)-(Shelf #)-(Rap Slot #)-(Port Id)-(STS Id)-VP(VP Id)-VC(VC Id)

T3Aid

DS3 Port Access Identifier. This identifies a DS3 port entity.

Pattern	Description
N{1-255}-{1-6}-{1-20}-{1-12}	T3 port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)

T3NtwkRngAid

DS3 Port Access Identifier. This identifies a DS3 port entity.

Pattern	Description
ALL	All ports in the system.
N{1-255}-ALL	All ports in a node.
N{1-255}-{1-6}-ALL	All T3 ports on a shelf.
N{1-255}-{1-6}-{1-20}-ALL	All T3 ports on a slot.
N{1-255}-{1-6}-{1-20}-{1-12}	T3 port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)

T3RngAid

DS3 Port Access Identifier. This identifies a DS3 port entity.

Pattern	Description
N{1-255}-{1-6}-ALL	All T3 ports on a shelf.

N{1-255}-{1-6}-{1-20}-ALL	All T3 ports on a slot.
N{1-255}-{1-6}-{1-20}-{1-12}	T3 port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)

TCGroupAid

Traffic Class Group Access IDentifier.

Pattern	Description
{1-15}	Traffic Class Group.

TCGroupRngAid

Traffic Class Group Ranging Access IDentifier

Pattern	Description
{1-15}	Traffic Class Group.

TapAid

Test Access Point (TAP) Access Identifier. This identifies which TAP is to be used for the test.

The access identifiers consist of:

(TAP #)

Pattern	Description
{1-2}	Test access point.

TermUnitAid

Termination Unit Access Identifier. This identifies either the remote (TU-R) or central office (TU-C) termination unit address.

Pattern	Description
N{1-255}-{1-6}-{1-20}	TU-C in an assigned shelf. This represents the information of the chipset being used by the equipment. Format = (Node Id)-(Shelf #)-(Slot #)
N{1-255}-{1-6}-{1-20}-{1-24}	TU-R in an assigned shelf. This represents the modem's information. Format = (Node Id)-(Shelf #)-(Slot Id)-(Port Id)

TimePeriodAid

Length of time.

Pattern	Description
{0-23}-{0-59}-{0-59}	Hours-Minutes-Seconds
{0-31}-{0-23}-{0-59}-{0-59}	Days-Hours-Minutes-Seconds
{0-59}	Seconds
{0-59}-{0-59}	Minutes-Seconds

TimingAid

Timing Access Identifier. The identifier which uniquely identifies a timing system being switched. There are two types of timing systems which may have their timing sources switched. The Shelf Timing Systems have AIDs of the form (Node Id)-(Shelf #)-SYS. DS1 Derived Timing systems have AIDs of the form (Node Id)-(Shelf #)-DDS1

Pattern	Description
N{1-255}-{1-6}- DDS1	Shelf on which the DS1 Derived timing source is to be changed
N{1-255}-{1-6}- SYS	Shelf on which the system timing source is to be changed.

TrapAid

SNMP Trap Access Identifier. The address of the SNMP trap recipient within a C7 network.

Pattern	Description
{1-4}	Trap recipient number.

TrfClassAid

Traffic Class Access Identifier.

Pattern	Description
{1-15}	Traffic Class Number.

TrfClassRngAid

Traffic Class Ranging Access Identifier.

Pattern	Description
ALL	All Traffic Classes.
{1-15}	Traffic Class Number.

TsiVciAddr

Timeslot Interchange internal virtual channel identifier.

Pattern	Description
N{1-255}-{1-5}-{1-20}-TSI-VP{0-4095}-VC{0-65535}	N{Node #}-{Shelf #}-{Slot #}-TSI-VP{VPI}-VC{VCI}.

TwelvePortLuAid

12-Port Line Unit Access Identifier.

Used for T3, etc. to specify the location of a port.

Pattern	Description
N{1-255}-{1-6}-{1-20}-{1-12}	Line Unit Port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-12}	Port on an Optical Network Termination (ONT). Format = (Node Id)-(Shelf #)-(OLT Slot #)-(Pon #)-(ONT number)-(Port Id)

TwelvePortLuNtwkRngAid

12-Port Line Unit Access Identifier.

Used for T3, etc. to specify the location of a port.

Pattern	Description
ALL	All ports in the system.
N{1-255}-ALL	All ports in a node.
N{1-255}-{1-6}-ALL	All ports on a shelf.
N{1-255}-{1-6}-{1-20}-ALL	All ports on a slot.
N{1-255}-{1-6}-{1-	Line Unit Port. Format = (Node Id)-(Shelf #)-(Slot

20}-{1-12}	#)-(Port Id)
N{1-255}-{1-6}-{1-20}-{1-4}-ALL	All Ports in a Passive Optical Network
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-ALL	All ports on an Optical Network Termination.
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-12}	Port on an Optical Network Termination (ONT). Format = (Node Id)-(Shelf #)-(OLT Slot #)-(Pon #)-(ONT number)-(Port Id)

TwelvePortLuOrIrcPpAid

12-Port Line Unit, or IRC PseudoPort Access Identifier.

Used for Ethernet Statistics.

Pattern	Description
N{1-255}-{1-6}-{1-20}-PP{1-2}	Pseudo-port. The access identifier of the form of (Node Id)-(Shelf #)-(Slot #)-PP(Port Id)
N{1-255}-{1-6}-{1-20}-{1-12}	Line Unit Port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-12}	Port on an Optical Network Termination (ONT). Format = (Node Id)-(Shelf #)-(OLT Slot #)-(Pon #)-(ONT number)-(Port Id)

TwelvePortLuOrIrcPpInitRngAid

12-Port Line Unit, or IRC PseudoPort Access Identifier.

Used for Initializing Ethernet Statistics.

Pattern	Description
N{1-255}-{1-6}-{1-20}-ALL	All ports or pseudoports on a slot.
N{1-255}-{1-6}-{1-20}-PP{1-2}	Pseudo-port. The access identifier of the form of (Node Id)-(Shelf #)-(Slot #)-PP(Port Id)
N{1-255}-{1-6}-{1-20}-{1-12}	Line Unit Port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)
N{1-255}-{1-6}-{1-20}-{1-4}-ALL	All ports under a Passive Optical Network.
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-ALL	All Ports on an Optical Network Termination.
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-12}	Port on an Optical Network Termination (ONT). Format = (Node Id)-(Shelf #)-(OLT Slot #)-(Pon #)-(ONT number)-(Port Id)

TwelvePortLuOrIrcPpRngAid

12-Port Line Unit, or IRC PseudoPort Access Identifier.

Used for Ethernet Statistics.

Pattern	Description
N{1-255}-{1-6}-ALL	All ports on a shelf.
N{1-255}-{1-6}-{1-20}-ALL	All ports or pseudoports on a slot.
N{1-255}-{1-6}-{1-20}-PP{1-2}	Pseudo-port. The access identifier of the form of (Node Id)-(Shelf #)-(Slot #)-PP(Port Id)
N{1-255}-{1-6}-{1-20}-{1-12}	Line Unit Port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)
N{1-255}-{1-6}-{1-20}-{1-4}-ALL	All ports under a Passive Optical Network.
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-ALL	All Ports on an Optical Network Termination.
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-12}	Port on an Optical Network Termination (ONT). Format = (Node Id)-(Shelf #)-(OLT Slot #)-(Pon #)-(ONT number)-(Port Id)

TwelvePortLuRngAid

12-Port Line Unit Access Identifier.

Used for T3, etc. to specify the location of a port.

Pattern	Description
N{1-255}-{1-6}-ALL	All ports on a shelf.
N{1-255}-{1-6}-{1-20}-ALL	All ports on a slot.
N{1-255}-{1-6}-{1-20}-{1-12}	Line Unit Port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)
N{1-255}-{1-6}-{1-20}-{1-4}-ALL	All ports under a Passive Optical Network.
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-ALL	All Ports on an Optical Network Termination.
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-12}	Port on an Optical Network Termination (ONT). Format = (Node Id)-(Shelf #)-(OLT Slot #)-(Pon #)-(ONT number)-(Port Id)

TwentyFourPortLuAid

24-Port Line Unit Access Identifier.

Used for ADSL, T0, etc. to specify the location of a port.

Pattern	Description
N{1-255}-{1-6}-{1-20}-{1-24}	Line Unit Port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-24}	Port on an Optical Network Termination (ONT). Format = (Node Id)-(Shelf #)-(OLT Slot #)-(Pon #)-(ONT number)-(Port Id)

TwentyFourPortLuNtwkRngAid

24-Port Line Unit Access Identifier.

Used for ADSL, T0, etc. to specify the location of a port.

Pattern	Description
ALL	All ports in the system.
N{1-255}-ALL	All ports under a node.
N{1-255}-{1-6}-ALL	All ports on a shelf.
N{1-255}-{1-6}-{1-20}-ALL	All ports on a slot.
N{1-255}-{1-6}-{1-20}-{1-24}	Line Unit Port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)
N{1-255}-{1-6}-{1-20}-{1-4}-ALL	All ports under a Passive Optical Network.
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-ALL	All Ports on an Optical Network Termination.
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-24}	Port on an Optical Network Termination (ONT). Format = (Node Id)-(Shelf #)-(OLT Slot #)-(Pon #)-(ONT number)-(Port Id)

TwentyFourPortLuRngAid

24-Port Line Unit Access Identifier. The

Used for ADSL, T0, etc. to specify the location of a port.

Pattern	Description

N{1-255}-{1-6}-ALL	All ports on a shelf.
N{1-255}-{1-6}-{1-20}-ALL	All ports on a slot.
N{1-255}-{1-6}-{1-20}-{1-24}	Line Unit Port. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)
N{1-255}-{1-6}-{1-20}-{1-4}-ALL	All ports under a Passive Optical Network.
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-ALL	All Ports on an Optical Network Termination.
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-24}	Port on an Optical Network Termination (ONT). Format = (Node Id)-(Shelf #)-(OLT Slot #)-(Pon #)-(ONT number)-(Port Id)

TwoPortLuAid

Passive Optical Network AID

Pattern	Description
N{1-255}-{1-6}-{1-20}-{1-2}	Format = (Node Id)-(Shelf #)-(OLT Slot #)-(Pon #)

UserAid

User Access Identifier.

Pattern	Description
{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}	4-Character Identifier.
{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}	5-Character Identifier.
{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}	6-Character Identifier.
{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}	7-Character Identifier.
{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}	8-Character Identifier.

{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}	9-Character Identifier.
{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}	10-Character Identifier.

UserAllAid

User Access All Identifier.

Pattern	Description
ALL	All Identifier.
{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}	4-Character Identifier.
{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}	5-Character Identifier.
{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}	6-Character Identifier.
{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}	7-Character Identifier.
{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}	8-Character Identifier.
{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}	9-Character Identifier.
{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}{A-Z,0-9}	10-Character Identifier.

VLanAid

Virtual LAN Access Identifier.

Pattern	Description
XLAN{1-100}- VLAN{2-4094}	Identifies a VLAN within an XLAN.

VLanPortAid

Virtual LAN Port Access Identifier.

Pattern	Description
N{1-255}-{1-6}-{1-20}-{1-12}- XLAN{1-100}- VLAN{2-4094}	Identifies a port participating in a VLAN. Format = (Node Id)-(Shelf #)-(Slot #)-(Port #)-XLAN(Extended LAN Index)-VLAN(Virtual LAN Index)

VLanPortRngAid

Virtual LAN Port Ranging Access Identifier.

Pattern	Description
N{1-255}-{1-6}- ALL	All VLAN ports on a shelf.
N{1-255}-{1-6}-{1-20}-ALL	All VLAN ports on a slot.
N{1-255}-{1-6}-{1-20}-{1-12}-ALL	All VLAN ports on a user port.
N{1-255}-{1-6}-{1-20}-{1-12}- XLAN{1-100}-ALL	All VLAN ports on an Extended LAN.
N{1-255}-{1-6}-{1-20}-{1-12}- XLAN{1-100}- VLAN{2-4094}	Identifies a port participating in a VLAN. Format = (Node Id)-(Shelf #)-(Slot #)-(Port #)-XLAN(Extended LAN Index)-VLAN(Virtual LAN Index)

VLanRngAid

Virtual LAN Ranging Access Identifier.

Pattern	Description

XLAN{1-100}-ALL	All Virtual LANs on an Extended LAN.
XLAN{1-100}-VLAN{2-4094}	Identifies a VLAN. <ul style="list-style-type: none"> • XLAN(Extended LAN Index)-VLAN(Virtual LAN Index)

VbAid

Virtual Bridge Access Identifier.

Pattern	Description
N{1-255}-{1-5}-VB{1-20}	Format = (Node Id)-(Shelf #)-VB(VB #)

VbAid-ALL

All entities under a Virtual Bridge.

Pattern	Description
N{1-255}-{1-5}-VB{1-20}-ALL	Format = (Node Id)-(Shelf #)-VB(VB #)-ALL

VbEpIdxAid

Virtual Bridge Endpoint Index.

Pattern	Description
N{1-255}-{1-5}-VB{1-20}-{1-7960}	Format = (Node Id)-(Shelf #)-VB(VB #)-(Index #)

VbEpNextAid

Virtual Bridge Endpoint NEXT INDEX AID.

Pattern	Description
N{1-255}-{1-5}-VB{1-20}-NEXT	Wild card index value for a Logical VB Port. This value will cause the system to automatically select the next available ConnId Index.Format = (Node Id)-(Shelf #)-VB(VB #)-NEXT

VbEpSysIdxAid

Virtual Bridge System Endpoint Index.

Pattern	Description
N{1-255}-{1-5}- VB{1-20}-{7961- 65535}	Format = (Node Id)-(Shelf #)-VB(VB #)-(Index #)

VbPortAid

Virtual Bridge Port Access Identifier- used for a Virtual Bridge association to a port.

Pattern	Description
N{1-255}-{1-5}- VB{1-20}-{1-20}- {1-6}	Format : node#-shelf#-VB#-Slot#-Port#. The port and the virtual bridge must reside on the same shelf. The address is a combination of the virtual bridge address and the slot and port of the physical port.
N{1-255}-{1-5}- VB{1-20}-{1-7960}	Format = (Node Id)-(Shelf #)-VB(VB #)-(Index #)

VbPortRngAid

Virtual Bridge Port Range Access Identifier.

Pattern	Description
N{1-255}-{1-5}- ALL	All Virtual Bridge Ports under a shelf.
N{1-255}-{1-5}- VB{1-20}-ALL	All Virtual Bridge Ports under a virtual bridge.
N{1-255}-{1-5}- VB{1-20}-{1-20}- ALL	All Virtual Bridge Ports under the slot address of the physical port.
N{1-255}-{1-5}- VB{1-20}-{1-20}- {1-6}	Format : node#-shelf#-VB#-Slot#-Port#. The port and the virtual bridge must reside on the same shelf. The address is a combination of the virtual bridge address and the slot and port of the physical port.
N{1-255}-{1-5}- VB{1-20}-{1-7960}	Virtual Bridge Endpoint Index.

VbRngAid

Virtual Bridge Range Aid - used to retrieve a range of Virtual Bridges in the system.

Pattern	Description
ALL	Retrieve ALL existing virtual bridges in the system.
N{1-255}-ALL	Retrieve all virtual bridge entities in a given node.
N{1-255}-{1-5}-ALL	Retrieve all virtual bridge entities in a given shelf.
N{1-255}-{1-5}-VB{1-20}	Retrieve the given virtual bridge.

Vc12PortAid

Line Unit Port VC Access Identifier. VC in a VP on an ATM-capable port

Pattern	Description
N{1-255}-{1-5}-{1-20}-{1-12}-VP{0-4095}-VC{32-65535}	N{Node #}-{Shelf #}-{Slot #}-{Port #}-VP{VPI}-VC{VCI}

Vc6PortAid

Line Unit Port VC Access Identifier. VC in a VP on a 6 port card

Pattern	Description
N{1-255}-{1-5}-{1-20}-{1-6}-VP{0-4095}-VC{32-65535}	N{Node #}-{Shelf #}-{Slot #}-{Port #}-VP{VPI}-VC{VCI}

VcAdslChAid

ADSL VC Access Identifier. VC in a VP in an ADSL channel

Pattern	Description
N{1-255}-{1-5}-{1-20}-{1-24}-CH{0-1}-VP{0-255}-VC{32-32767}	N{Node #}-{Shelf #}-{Slot #}-{Port #}-CH{Channel #}- VP{VPI}-VC{VCI} where the Channel # is one of the two logical channels within the DSL port

VcCsPpAid

Control Slot Pseudo-Port VC Access Identifier. VC in a VP on a pseudo-port on a control slot

Pattern	Description
N{1-255}-{1-5}-{CSA,CSB}-PP{1-2}-VP{0-4095}-VC{32-65535}	N{Node #}-{Shelf #}-{Control Slot Id}-PP{Port #}-VP{VPI}-VC{VCI}

VcCsStsAid

Control Slot STSn VC Access Identifier. VC in a VP on an STSn on an ATM-capable Sonet control card

Pattern	Description
N{1-255}-{1-5}-{CSA,CSB}-{1}-{1-48}-VP{0-4095}-VC{20,32-65535}	N{Node #}-{Shelf #}-{Control Slot Id}-{Port #}-{STS #}-VP{VPI}-VC{VCI}

VcImaGrpAid

IMA Group VC Access Identifier. VC in a VP on an IMA Group

Pattern	Description
N{1-255}-{1-5}-{1-20}-AP{1-16}-VP{0-4095}-VC{32-65535}	No Comment Defined.
N{1-255}-{1-5}-{1-20}-IMA{1-16}-VP{0-4095}-VC{32-65535}	No Comment Defined.

VcImaGrpRngAid

No Comment Defined.

Pattern	Description
N{1-255}-{1-5}-{1-20}-AP{1-16}-ALL	No Comment Defined.
N{1-255}-{1-5}-{1-20}-AP{1-16}-VP{0-4095}-ALL	No Comment Defined.
N{1-255}-{1-5}-{1-	

20}-AP{1-16}-VP{0-4095}-VC{32-65535}	No Comment Defined.
N{1-255}-{1-5}-{1-20}-IMA{1-16}-ALL	No Comment Defined.
N{1-255}-{1-5}-{1-20}-IMA{1-16}-VP{0-4095}-ALL	No Comment Defined.
N{1-255}-{1-5}-{1-20}-IMA{1-16}-VP{0-4095}-VC{32-65535}	No Comment Defined.

VcLuPpAid

Line Unit Pseudo-Port VC Access Identifier. VC in a VP on a pseudo-port on a line unit slot

Pattern	Description
N{1-255}-{1-5}-{1-20}-PP{1-2}-VP{0-4095}-VC{32-65535}	N{Node #}-{Shelf #}-{Slot #}-PP{Port #}-VP{VPI}-VC{VCI}

VcLuStsAid

Line Unit STS VC Access Identifier. VC in a VP in an STSn on an ATM-capable Sonet card.

VP range 4000-4090 is reserved for protected VP a2z(s). VP 4094 is reserved for protected VC a2z(s). VP 4095 is reserved for unprotected VC a2z(s) and control Vc(s). VC 0 is reserved for CRPR control VC.

Pattern	Description
N{1-255}-{1-5}-{1-20}-{1-4}-{1-48}-VP{0-4095}-VC{20,32-65535}	N{Node #}-{Shelf #}-{Slot #}-{Port #}-{STS #}-VP{VPI}-VC{VCI}

VcSysAid

System VC. Termination points identified by this AID are created by the system for internal purposes.

Pattern	Description
N{1-255}-{1-5}-	

SYS-{1-2}-VP{0-4095}-VC{32-65535}	Format = N{Node #}-{Shelf #}-SYS-{Port #}-VP{VPI}-VC{VCI}
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Vds1Aid

Virtual DS1 Location. One or more VDS1s on a VGP card may be associated with a Voice Concentration Group to manage the call capacity of that group.

Pattern	Description
N{1-255}-{1-6}-{1-20}-V{1-14}	VDS1 on a VGP card. Format = (Node Id)-(Shelf #)-(Slot #)-V(Port #)

Vds1NtwkRngAid

Virtual DS1 Location. One or more VDS1s on a VGP card may be associated with a Voice Concentration Group to manage the call capacity of that group.

Pattern	Description
ALL	All VDS1s in the system.
N{1-255}-ALL	All VDS1s in a node.
N{1-255}-{1-6}-ALL	All VDS1s in a shelf.
N{1-255}-{1-6}-{1-20}-ALL	All VDS1s under a slot.
N{1-255}-{1-6}-{1-20}-V{1-14}	VGP Line Unit Port. Format = (Node Id)-(Shelf #)-(Slot #)-V(Port Id)

VidServAid

Video Service Access Identifier. This identifies the Video Service being operated upon.

Pattern	Description
1	Currently, only one video service per C7 network is supported.

VidServRngAid

IRC Location Ranging AID.

Pattern	Description
1	Currently, only one video service per C7 network is

	supported.
ALL	All Video Services within a C7 network.

VidSubAid

Video Subscriber Access Identifier.

Pattern	Description
N{1-255}-{1-5}-VB{1-20}-{1-20}-{1-6}	Format : node#-shelf#-VB#-Slot#-Port#. The port and the virtual bridge must reside on the same shelf. The address is a combination of the virtual bridge address and the slot and port of the physical port.
N{1-255}-{1-5}-{1-20}-{1-24}-CH0	ADSL Channel Address - node#-shelf#-slot#-port#-chan#
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-24}	ONT port address. Node#-shelf#-slot#-port#-ont#-ontport#

VidSubRngAid

Video Subscriber Ranging Address

Pattern	Description
N{1-255}-{1-5}-VB{1-20}-ALL	All Virtual Bridge Ports under a virtual bridge.
N{1-255}-{1-5}-VB{1-20}-{1-20}-ALL	All Virtual Bridge Ports under the slot address of the physical port.
N{1-255}-{1-5}-VB{1-20}-{1-20}-{1-6}	Format : node#-shelf#-VB#-Slot#-Port#. The port and the virtual bridge must reside on the same shelf. The address is a combination of the virtual bridge address and the slot and port of the physical port.
N{1-255}-{1-5}-{1-20}-{1-24}-CH0	ADSL Channel Address - node#-shelf#-slot#-port#-chan#
N{1-255}-{1-6}-ALL	All Video Subscribers under the shelf
N{1-255}-{1-6}-{1-20}-ALL	All Video Subscribers under the slot
N{1-255}-{1-6}-{1-20}-{1-4}	All Video subscribers under a BPON or GPON Port.
N{1-255}-{1-6}-{1-20}-{1-4}-ALL	All Video Subscribers under the port
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}	All Video Subscribers under the ONT

ALL	
N{1-255}-{1-6}-{1-20}-{1-4}-{1-64}-{1-24}	ONT port address. Node#-shelf#-slot#-port#-ont#-ontport#

VidSubTmpltAid

Video Subscriber Template AID

Pattern	Description
{1-50}	User defined profiles.

VidSvcAid

Video Service Access Identifier. This identifies the Video Service being operated upon.

Pattern	Description
1	Currently, only one video service per C7 network is supported.

VidSvcRngAid

IRC Location Ranging AID.

Pattern	Description
1	Currently, only one video service per C7 network is supported.
ALL	All Video Services within a C7 network.

VidVcRngAid

Video Virtual Circuit Access Identifier. This identifies a specific virtual circuit (VC) path.

Pattern	Description
ALL	All Video VCs in the network.
N{1-255}-{1-6}-ALL	All Video VCs in a shelf.
N{1-255}-{1-6}-{1-20,CSA,CSB}-ALL	All Video VCs in a slot.
N{1-255}-{1-6}-{1-20,CSA,CSB}-PP{1-2}-ALL	All Video VCs in a pseudo-port.

N{1-255}-{1-6}-{1-20,CSA,CSB}-PP{1-2}-VP{0-4095}-VC{32-65535}	Video VC on a pseudo-port. Format = (Node Id)-(Shelf #)-(Slot #)-PP(PP Id)-VP(VP Id)-VC(VC Id)
N{1-255}-{1-6}-{1-20}-IMA{1-16}-ALL	All Video VCs in an IMA Group.
N{1-255}-{1-6}-{1-20}-IMA{1-16}-VP{0-4095}-VC{32-65535}	Video VC on an IMA Group. Format = (Node Id)-(Shelf #)-(Slot #)-(IMA Group #)-VP(VP Id)-VC(VC Id)
N{1-255}-{1-6}-{1-20}-{1-12}-VP{0-4095}-VC{32-65535}	Video VC in a VP for a DS3 in a DS3-12p card, or a VC in a VP for a DS1 in a DS1-12, T1-6, T1-6-A+T or HDSL card. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)-VP(VP Id)-VC(VC Id)
N{1-255}-{1-6}-{1-20}-{1-24}-ALL	All Video VCs in a port.
N{1-255}-{1-6}-{1-20}-{1-24}-CH{0-1}-ALL	All Video VCs in an ADSL channel.
N{1-255}-{1-6}-{1-20}-{1-24}-CH{0-1}-VP{0-4095}-VC{32-32767}	Video VC in a VP in an ADSL channel. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)-(Channel Id)-VP(VP Id)-VC(VC Id) where (Channel Id) is one of the two logical channels within the DSL port.
N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-ALL	All Video VCs in an STS on an OC port.
N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-VP{0-4095}-VC{32-65535}	Video VC in a VP in an STS on an OC card. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)-(STS Id)-VP(VP Id)-VC(VC Id)
N{1-255}-{1-6}-{CSA,CSB}-{1}-ALL	All Video VCs on a RAP-OC port.
N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-ALL	All Video VCs in an STS on an OC port.
N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-VP{0-4095}-VC{32-65535}	Video VC in a VP in an STS on a RAP-OC card. Format = (Node Id)-(Shelf #)-(Rap Slot #)-(Port Id)-(STS Id)-VP(VP Id)-VC(VC Id)

VlanPortTmpltAid

VLAN VBPORT Template Access Identifier.

Pattern	Description
{1-20}	Range values.

VlanPortTmpltRngAid

VLAN VBPort Template Range Access Identifier - This template has the default values to create a VLAN-PORT. These values are used for retrieval of the Templates. When a cross connect is entered, the VC endpoint on the virtual bridge is automatically added to the AUTOVLAN by automatically creating a VLAN port using the VLANPORTTMPLT specified

Pattern	Description
ALL	Retrieve all VLANVBPORT Templates.
{1-20}	Vlan Port Template Aid Range.

VodFlowAid

VOD Flow Access Identifier. Number of the VOD flow.

Pattern	Description
{1-10000}	Flow identifier.

VodFlowRngAid

VOD Flow Access Identifier for ranging. Number of the VOD flow.

Pattern	Description
ALL	All flows.
{1-10000}	Flow identifier.

VpAid

Virtual Path Access Identifier. This identifies a specific virtual path (VP).

Pattern	Description
N{1-255}-{1-6}-{1-20,CSA,CSB}-PP{1-2}-VP{1-4095}	VP on a pseudo-port. Format = (Node Id)-(Shelf #)-(Slot #)-PP(PP Id)-VP(VP Id)
N{1-255}-{1-6}-{1-20}-AP{1-16}-VP{1-4095}	No Comment Defined.
N{1-255}-{1-6}-{1-20}-IMA{1-16}-VP{1-4095}	No Comment Defined.

N{1-255}-{1-6}-{1-20}-{1-12}-VP{1-4095}	VP on a DS3 in a DS3-12p card, or a VC in a VP for a DS1 in a DS1-12, T1-6, T1-6-A+T or HDSL card. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)-VP(VP Id)
N{1-255}-{1-6}-{1-20}-{1-24}-CH{0-1}-VP{1-4095}	VP in an ADSL channel. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)-(Channel Id)-VP(VP Id) where (Channel Id) is one of the two logical channels within the DSL port.
N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-VP{1-4095}	VP in an STS on an OC card. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)-(STS Id)-VP(VP Id)
N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-VP{1-4095}	VP in an STS on a RAP-OC card. Format = (Node Id)-(Shelf #)-(Rap Slot #)-(Port Id)-(STS Id)-VP(VP Id)

VpRngAid

Virtual Path Access Identifier. This identifies a specific virtual path (VP).

Pattern	Description
N{1-255}-{1-6}-ALL	All VPs in a shelf.
N{1-255}-{1-6}-{1-20,CSA,CSB}-ALL	All VPs in a slot.
N{1-255}-{1-6}-{1-20,CSA,CSB}-PP{1-2}-ALL	All VPs on a pseudo-port.
N{1-255}-{1-6}-{1-20,CSA,CSB}-PP{1-2}-VP{1-4095}	VP on a pseudo-port. Format = (Node Id)-(Shelf #)-(Slot #)-PP(PP Id)-VP(VP Id)
N{1-255}-{1-6}-{1-20}-AP{1-16}-ALL	No Comment Defined.
N{1-255}-{1-6}-{1-20}-AP{1-16}-VP{1-4095}	No Comment Defined.
N{1-255}-{1-6}-{1-20}-IMA{1-16}-ALL	No Comment Defined.
N{1-255}-{1-6}-{1-20}-IMA{1-16}-VP{1-4095}	No Comment Defined.
N{1-255}-{1-6}-{1-20}-{1-12}-VP{1-4095}	VP on a DS3 in a DS3-12p card, or a VC in a VP for a DS1 in a DS1-12, T1-6, T1-6-A+T or HDSL card. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)-VP(VP Id)
N{1-255}-{1-6}-{1-20}-{1-24}-ALL	All VPs on a port.
N{1-255}-{1-6}-{1-	

20}-{1-24}-CH{0-1}-ALL	All VPs in an ADSL channel.
N{1-255}-{1-6}-{1-20}-{1-24}-CH{0-1}-VP{1-4095}	VP in an ADSL channel. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)-(Channel Id)-VP(VP Id) where (Channel Id) is one of the two logical channels within the DSL port.
N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-ALL	All VPs in an STS on an OC port.
N{1-255}-{1-6}-{1-20}-{1-4}-{1-48}-VP{1-4095}	VP in an STS on an OC card. Format = (Node Id)-(Shelf #)-(Slot #)-(Port Id)-(STS Id)-VP(VP Id)
N{1-255}-{1-6}-{CSA,CSB}-{1}-ALL	All VPs on a RAP-OC port.
N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-ALL	All VPs on an STS on a RAP-OC port.
N{1-255}-{1-6}-{CSA,CSB}-{1}-{1-48}-VP{1-4095}	VP in an STS on a RAP-OC card. Format = (Node Id)-(Shelf #)-(Rap Slot #)-(Port Id)-(STS Id)-VP(VP Id)

VrAid

Virtual Router Access Identifier.

Pattern	Description
N{1-255}-{1-5}-VR{1-20}	Virtual Router Access Identifier - Node#-Shelf#-VR#

VrAid-ALL

All entities under a Virtual Router.

Pattern	Description
N{1-255}-{1-5}-VR{1-20}-ALL	Virtual Router AID. Format = (Node Id)-(Shelf #)-(Slot #)-VR(VR #)-ALL

VrEpIdxAid

Virtual Router Endpoint Index.

Pattern	Description
N{1-255}-{1-5}-	Format = (Node Id)-(Shelf #)-(Slot #)-VR(VR #)-

VR{1-20}-{1-7960}	(Index #)
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VrRngAid

Virtual Router Range Aid - used to do a range retrieval of Virtual Routers in the system.

Pattern	Description
ALL	Retrieve all Virtual Routers in the system.
N{1-255}-ALL	Retrieve all the virtual routers in a given node.
N{1-255}-{1-5}-ALL	Retrieve all the virtual routers in a given shelf.
N{1-255}-{1-5}-VR{1-20}	Retrieve the virtual router given.

VrpAid

Video Return Path Access Identifier.

Pattern	Description
N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-VRP	Video Return Path Access Identifier. Node#-shelf#-slot#-port#-ont#-vpr

VrpNtwkRngAid

Video Return Path Access Identifiers used for ranging.

Pattern	Description
ALL	Return ALL provisioned Video Return Path records.
N{1-255}-ALL	All video return path records on this node.
N{1-255}-{1-5}-ALL	All Video Return Path records under a shelf.
N{1-255}-{1-5}-{1-20}-ALL	All Video Return Path records under a slot.
N{1-255}-{1-5}-{1-20}-{1-4}-ALL	All Video Return Path records under the port.
N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-ALL	All Video Return Path records under the ONT
N{1-255}-{1-5}-{1-20}-{1-4}-{1-64}-VRP	Video Return Path

VspPortAid

Voice Signaling Processor port. This logical entity represents a "port" on a VIPR card.

Pattern	Description
N{1-255}-{1-6}-{1-20}-VSP{1-2}	Format = (Node Id)-(Shelf #)-(VIPR Slot #)-VSP(port #)

VspPortNtwkRngAid

Voice Signaling Processor port. This logical entity represents a "port" on a VIPR card.

Pattern	Description
ALL	All VSP Ports in the network.
N{1-255}-ALL	All VSP ports under a node.
N{1-255}-{1-6}-ALL	All VSP ports under a shelf.
N{1-255}-{1-6}-{1-20}-ALL	All VSP ports on a VIPR card.
N{1-255}-{1-6}-{1-20}-VSP{1-2}	Format = (Node Id)-(Shelf #)-(VIPR Slot #)-VSP(port #)

VspPortRngAid

Voice Signaling Processor port. This logical entity represents a "port" on a VIPR card.

Pattern	Description
N{1-255}-{1-6}-ALL	All VSP ports under a shelf.
N{1-255}-{1-6}-{1-20}-ALL	All VSP ports on a VIPR card.
N{1-255}-{1-6}-{1-20}-VSP{1-2}	Format = (Node Id)-(Shelf #)-(VIPR Slot #)-VSP(port #)

VtiAid

Virtual Transport Interface (VTI) access identifier.

Pattern	Description
N{1-255}-{1-6}-VTI{1-80}	Virtual Transport Interface on a shelf. Format = (Node Id)-(Shelf #)-VTI(Vti #)

VtiRngAid

Virtual Transport Interface (VTI) access identifier.

Pattern	Description
N{1-255}-{1-6}- ALL	All VTIs on a shelf.
N{1-255}-{1-6}- VTI{1-80}	Virtual Transport Interface on a shelf. Format = (Node Id)-(Shelf #)-VTI(Vti #)

XLanAid

eXtended LAN Access Identifier.

Pattern	Description
XLAN{1-100}	EXtended LAN Index.

XLanRngAid

eXtended LAN Access Identifier.

Pattern	Description
ALL	ALL Extended LANs.
XLAN{1-100}	EXtended LAN Index.

Parameter Types

This section provides a description of all message parameter types defined for the TL1 messages in this network element. The TL1 message descriptions frequently refer into this section.

ATAG Description

Automatic Tag (ATAG)

The ATAG is a numeric transaction identifier similar to Correlation Tag (CTAG). Its value is automatically generated by a TL1 agent and is used exclusively as a sequence number for autonomous messages. It is a number from 1 to 99999.

The first ATAG used is 1 when the agent first initializes or is reset. It automatically wraps. OSSs may use the ATAG to spot if messages are being lost.

CTAG Description

Correlation Tag (CTAG)

A correlation identifier for transactions sourced in an OS. It is alphanumeric. It can be up to 6 Alphanumeric characters.

The CTAG is assigned on a per session basis by the OS/user and is returned in the response to the OS/user.

TID Description

Target Identifier

The TID can be up to 20 characters. All Alphanumeric characters can be used. Spaces are not allowed. TIDs are not case-sensitive.

Parameter Types

AcsPrv

ACceSs PRiVilege Memory Administration. These are the possible privileges for memory administration commands.

AcsPrv Values	Description
FULL	Execute all memory administration commands
MIN	Execute all retrieval - only memory administration commands
NONE	Execute no memory administration commands

ActiveAmp

This indicates the current active AMP for terminating the EOC data link.

ActiveAmp Values	Description
NONE	Neither of the Operations Processors are active. Communications over the GR303 EOC is not available.
PRI	Primary Operations Processor is Active
SEC	Secondary Operations Processor is active

ActiveState

This indicates if this is currently the protecting or working unit in the facility protection group.

ActiveState Values	Description
PROT	Protecting unit.
WRK	Working unit.

AdslCstatType

This indicates the specification of the signal which is received by the the ADSL modem.

AdslCstatType Values	Description
ADSL2	ADSL2 standards specification. (G.992.3)
ADSL2(M)	ADSL2, AnnexM.
ADSL2+	ADSL2+ standards specification. (G.992.5)
ADSL2+(M)	ADSL2+, AnnexM.
GDMT	G.DMT standards specification. (G.992.1)
GLITE	G.Lite standards specification. (G.992.2)
READSL2	Reach Extended ADSL2 (G.992.3 Annex L Standard)
T1413	T1.413 standards specification.

AdslPmThres

ADSL Performance Monitoring Threshold Levels.

This parameter identifies the value range for an ADSL threshold parameter.

AdslPmThres Values	Description
{0-900}	Count.

AdslPowerMgmtStates

Power Management States for ADSL

AdslPowerMgmtStates Values	Description
L0	Full normal operation.
L2	Very low power state for use when there is little or no traffic. <ul style="list-style-type: none"> • allows keepalive traffic

	<ul style="list-style-type: none"> • return to L0 within 2DMT frames • wideband energy transmitted during L2
L2L3	Indicates either state L2 or L3.
L3	Full off, no signal at all.

AdslPwrMgmtStatesFrcd

Forced Power Management States for ADSL

AdslPwrMgmtStatesFrcd Values	Description
L0	Full normal operation.
L2	<p>Very low power state for use when there is little or no traffic.</p> <ul style="list-style-type: none"> • allows keepalive traffic • wideband energy transmitted during L2
L3	Full off, no signal at all.

AdslRxPwr

ADSL Receive Power, expresses as dB X 10

AdslRxPwr Values	Description
{-255-255}	This range represents values from -25.5 dB to 25.5 dB.

AdslTxPwr

ADSL Transmit Power, expresses as dB X 10

AdslTxPwr Values	Description
{0-255}	This range represents values from 0 dB to 25.5 dB.

AdslType

This indicates the specification of the signal which is expected to be received by the the ADSL modem.

AdslType Values	Description

ADSL2	ADSL2 standards specification. (G.992.3)
ADSL2+	ADSL2+ standards specification. (G.992.5)
ANNEXM	ADSL2 Annex M.
GDMT	G.DMT standards specification. (G.992.1)
GLITE	G.Lite standards specification. (G.992.2)
MM	Multi-Mode (Legacy) A negotiated mode to allow the ADSL plug-in card to automatically detect and train up to the service type (G.DMT, G.LITE, or T.1413) supported by the CPE.
MM2+	Multi-Mode (for ADSL2+) A negotiated mode to allow the ADSL2 plug-in card to automatically detect and train up to the service type (G.DMT, G.LITE, T.1413, ADSL2, ADSL2+, or READSL2) supported by the CPE.
READSL2	Reach Extended ADSL2 (G.992.3 Annex L Standard)
T1413	T1.413 standards specification.

AIDType

This indicates the type of Access Identifier (AID).

AIDType Values	Description
ACO	Alarm cutoff
ADSL	Asynchronous digital subscriber line
AMP	AMP
AP	ATM Resource Port
ARP	ARP global settings
AVO	Analog Video Overlay
BWC	Bandwidth Constraint
BWCLINK	Link Bandwidth Constraint
CMS	Calix Management System. This AID pattern is not supported by the C7.
COM	Common. Designates scope of item or record is NE as a whole
CRS-DCC	DCC Cross-connect
CRS-STS1	STS1 Cross-connect
CRS-STS12C	STS12C Cross-connect
CRS-STS3C	STS3C Cross-connect
CRS-STS48C	STS48C Cross-connect
CRS-T0	T0 Cross-connect
CRS-T1	T1 Cross-connect
CRS-VC	VC Cross-connect
CRS-VIDVC	VIDVC Cross-connect
CRS-VP	VP Cross-connect

DAT	Date
DHCP	DHCP global settings
DHCPOUI	DHCP Organizationally Unique Identifier
DCHPSVR	DHCP Server
EC1	Electrical carrier level 1
ENV	Environmental input contacts
EQPT	Equipment
ETH	Ethernet port
ETHAGG	Ethernet Link Aggregate
EXT	External control
FFP-OC12	OC12 Facility Protection Group
FFP-OC3	OC3 Facility Protection Group
FFP-OC48	OC48 Facility Protection Group
GOS-ADSL	ADSL Grade of Service
GOS-AP	ATM Resource Port Grade of Service
GOS-EC1	EC1 Grade of Service
GOS-HDSL	HDSL Grade of Service
GOS-IMA	IMA Group Grade of Service
GOS-IMALINK	IMA Link Grade of Service
GOS-OC12	OC12 Grade of Service
GOS-OC3	OC3 Grade of Service
GOS-OC48	OC48 Grade of Service
GOS-STS1	STS1 Grade of Service
GOS-STS12C	STS12c Grade of Service
GOS-STS3C	STS3c Grade of Service
GOS-STS48C	STS48c Grade of Service
GOS-T1	T1 Grade of Service
GOS-T3	T3 Grade of Service
GR303	GR-303 Interface Group
GR8	GR-8 Interface Groups
H248	H.248 Interface Group
HDSL	High bit rate Digital Subscriber Line
IFCONFIG	Ethernet Port on an AMP
IGCRV	Call Reference Value of a GR-303 interface group
IGDS1	DS1 of an interface group
IGMP	IGMP global settings
IGMPJOIN	IGMP Join
IGVDS1	VCG (PON) Interface Group IG VDS1 association
IGVSP	H.248 Interface Group VSP association
IMA	IMA Group
IMALINK	IMA Link
IPHOST	IP Host
IPIF	IP Interface
IPIF-PORT	IP Interface Port

IPROUTE	IP Route
LINK	Data communication links.
LOG	Log
LSWITCH	LSwitch
LSWPORT	LSwitch Port
NODE	Node
OC12	Optical carrier level 12
OC3	Optical carrier level 3
OC48	Optical carrier level 48
ONT	Optical Network Termination
ONTPROF	Optical Network Termination profile
PON	Passive Optical Network
PP	Pseudo Port
PPL	Packet Protection Label
PROF-ETH	Ethernet Traffic Profile
PROF-TRF	ATM Traffic Profile
RADIUS	Remote Authentication Dial In User Service
RFVID	Rf Video
SERIAL	Serial Port on an AMP
SHELF	Shelf
SNMP	SNMP global settings
SNMPACL	SNMP Access Control List entry
SNMPTRAP	SNMP Trap recipient
SSH	Secure Shell
STS1	Synchronous transport signal level 1
STS12C	Synchronous transport signal 12C
STS3C	Synchronous transport signal 3C
STS48C	Synchronous transport signal 48C
SUBIFBINDING	Sub-Interface Binding - used to bind a IP address to a physical location
SYS	System
SYSSECU	System Security settings
T0	Digital signal zero
T1	Digital signal one
T1TG	T1 Transport interface group
T3	Digital signal three
TGRP	Test group.
TMG	Timing
TMPLT-ADSL	ADSL Template
TMPLT-SECU	Security Template
TMPLT-VIDCHAN	Video Channel Template
TMPLT-VIDSUB	Video Subscriber Template
TMPLT-VLANVBPORT	VLAN-VBPORT Template

USER	User
VB	Virtual Bridge
VBPORT	Virtual Bridge Port
VCG	Voice Concentration Group
VCGLINK	VCG Link
VDS1	Virtual DS1
VIDCHAN	Video Channel
VIDIRCLOC	Video IRC Location
VIDSERV	Video Service
VLAN	Virtual LAN
VLAN-VBPORT	VLAN-VBPORT
VLANPORT	Virtual Lan Port
VODCLNT	VOD Client
VODDSTLU	VOD Destination Line Unit
VODFLOW	VOD Flow
VODSRCLU	VOD Source Line Unit
VODSVR	VOD Server
VR	Virtual Router
VRP	Video Return Path.
VRPORT	Virtual Router Port
VSP	Voice Signal Processor (H.248)
XLAN	Extended LAN

AisType

Indicates the type of the AIS signal to be generated/transmitted, and the AIS signal mode expected on input should a failure condition exists.

AisType Values	Description
NAS	North American Standard.
ONES	Unframed all ones.

AlarmContact

Alarm Contact.

This parameter determines the scope of alarm contact reporting.

AlarmContact Values	Description
NETWORK	NETWORK. Scope reporting of alarm contacts for the entire network.
NODE	NODE. Scope reporting of alarm contacts for just

this node.

AlarmCutoffMode

Mode of alarm cutoff operation to be provided by the C7.

AlarmCutoffMode Values	Description
DELD	Delayed. Alarm cutoff is delayed to allow announcement. This means that the audible alarm sounds for a brief period and then is shut off. The sound period is 5 seconds.
IMED	Immediate. Alarm cutoff introduced automatically and immediately at the NE. This means the audible alarms are never sounded at the NE.
MAN	Manual. The audible alarm sounds continuously until either the OPR-ACO command is executed or by manual intervention at the shelf itself.

ApplicationId

Application Id.

For specifying video applications.

ApplicationId Values	Description
AAL2-DS0X2	No Comment Defined.
AAL2-DS0X4	4 X ATM Adaptation Layer 2 (AAL2) DS0. Used for transporting up to 4 DS0 connections over AAL2 within the C7 network.
AAL2-DS0X8	8 X ATM Adaptation Layer 2 (AAL2) DS0. Used for transporting up to 8 DS0 connections over AAL2 within the C7 network.
AGGDATACAROUSEL	Aggregated Data Carousel
ATMOAM	ATM OAM. Used for internal ATM OAM PVCs. These are created by the system.
DATACAROUSEL	Data Carousel
IP	IP packets.
ORPCTL	ORP Control. Used for internal ORP control PVCs. These are created by the system for domains protected using the Optical Restoration Protocol.
TDM	TDM. Used for transporting DS0 TDM connections within the C7 network.
VIDCHNL	Video Channel. Used to transport video channel to the video enabled Optical Line Units.

VIDSUBCHNL	Video Subscriber Channel. Set up between the video enabled OLU (in the same shelf) and the DSL port of a video subscriber.
VIDSUBSVC	Video Subscriber Service. Similar to subscriber channel except that it is used to carry service information (boot image, listening post, program guide).
VODFLOW	VOD Flow. Carries VOD traffic from the ingress OLU to the egress OLU on the subscriber's shelf.
VODSERVER	VOD Server. Connects the optical port to PP2 on the ingress OLU adjacent to the VOD server's router. This VC carries traffic associated only with VOD server(s).

AppMode

APPlication MODE. Forwarding mode of VLAN.

AppMode Values	Description
ROUTED	Routed
STAGSW	No Comment Defined.
TLS	TLS
VLANPERPORT	No Comment Defined.
VLANPERSERVICE	No Comment Defined.

ArpAgeRange

Age of Address Resolution Protocol.

ArpAgeRange Values	Description
{240-65535}	Seconds

ArpType

ARP Type. This indicates how the ARP entry was added to the ARP table. ARP entries can be provisioned statically as a side-effect of the ENT-IP-HOST command, learned dynamically through an ARP-enabled VC, or learned when acting as a DHCP relay.

ArpType Values	Description
DHCP	Learned when acting as a DHCP relay.
DYNAMIC	Learned dynamically using ARP.

STATIC	Statically provisioned.
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ATAGSeq

Integral part of the ATAG of the autonomous message to be retrieved.

ATAGSeq Values	Description
ATAGSEQ	Valid values are integers.

AtmMap

ATM Mapping

AtmMap Values	Description
IMA	IMA mode. ATM Resource Ports must be configured with ATMMAP=IMA to be used in an IMA Group.
NNI	ATM Mode Network to Network Interface
UNI	ATM Mode User to Network Interface

ATMPayload

Indicates the payload mapping when the interface is UNI.

ATMPayload Values	Description
DIRECT	Direct mapping.
PLCP	Physical Layer Convergence Protocol mapping.

Attenuation

This is attenuation of the transmitted signal in dB.

Attenuation Values	Description
-15	dB.
-22.5	dB.
-7.5	dB.
0.0	dB.

AtuCap

Identifies the capabilities of the ATU.

AtuCap Values	Description
ADSL2MPNOS	Adsl2 AnnexM RPOTS non-overlapped spectrum.
ADSL2MPOS	Adsl2 AnnexM RPOTS overlapped spectrum.
ADSL2PMPNOS	Adsl2Plus AnnexM RPOTS non-overlapped spectrum.
ADSL2PMPOS	Adsl2Plus AnnexM RPOTS overlapped spectrum.
ADSL2PNOS	Adsl2 RPOTS non-overlapped spectrum.
ADSL2PPNOS	Adsl2Plus RPOTS non-overlapped spectrum.
ADSL2PPOS	Adsl2Plus RPOTS overlapped spectrum.
DPNOS	G.DMT RPOTS non-overlapped spectrum.
DPOS	G.DMT RPOTS overlapped spectrum.
LPNOS	G.LITE RPOTS non-overlapped spectrum.
LPOS	G.LITE RPOTS overlapped spectrum.
READSL2PNOS	READSL2 RPOTS non-overlapped spectrum.
T1413	T1.413 capable.

AtuLocn

Location of the ADSL terminal unit.

AtuLocn Values	Description
ATU-C	ATU - Central Office
ATU-R	ATU - Remote

AvoFreqRngHigh

The higher of the possible two frequency ranges supported for an Analog Video Receiver Port.

AvoFreqRngHigh Values	Description
2150-3250	MHz.
550-750	MHz.
550-870	MHz.
950-2050	MHz.
950-3250	MHz.
NOTSUP	Not Supported.

AvoFreqRngLow

The lower of the possible two frequency ranges supported for an Analog Video Receiver Port.

AvoFreqRngLow Values	Description
50-550	MHz.
50-750	MHz.
80-870	MHz.
NOTSUP	Not Supported.

BaRActivity

Backup-and-Restore Activity

BaRActivity Values	Description
CANCEL	Cancel BaR activity.
EXTRACT	Extract Image.
LOAD	Load Image.
SNAPSHOT	Snapshot an Image.
SWITCH	Switch Images.

BarSession

This refers to a BAR session that has been activated with the OPR-BAR command.

BarSession Values	Description
{1-8}	Session number

BARState

State of the BAR operation.

BARState Values	Description
DONE	Operation Done.
IDLE	BAR is idle.
INPROGRESS	BAR operation is in progress.
UNKNOWN	Unknown state.

BaudRate

Baud Rate. This is the baud rate setting which the serial port can be provisioned to.

BaudRate Values	Description
19200	Bit per second.
2400	Bit per second.
38400	Bit per second.
4800	Bit per second.
57600	Bit per second.
9600	Bit per second.

BitErrorRateSD

Bit error rate for Signal Degraded expressed in integer values of the the negative powers of 10. (i.e. value of 7 means 10 to the negative 7).

BitErrorRateSD Values	Description
5	Value of 10 to the negative 5.
6	Value of 10 to the negative 6.
7	Value of 10 to the negative 7.
8	Value of 10 to the negative 8.
9	Value of 10 to the negative 9.

BitErrorRateSF

Bit error rate for Signal Failed expressed in integer values of the the negative powers of 10. (i.e. value of 4 means 10 to the negative 4).

BitErrorRateSF Values	Description
3	Value of 10 to the negative 3. This value may not be used for STS rates above STS3.
4	Value of 10 to the negative 4.
5	Value of 10 to the negative 5.

BoolYN

A boolean flag parameter where Y = Yes to the parameter value and N = No.

BoolYN Values	Description
N	No.
Y	Yes.

BwcInternalTypes

Bandwidth Constraint Link Internal Types. This is an anti-filter. When the INTERNAL flag is set to this value, all the internally created bandwidth constraint links are returned as well.

BwcInternalTypes Values	Description
VIDSUB	Video Subscriber

BwcNtfyThrRange

This indicates the valid values for a bandwidth usage notification threshold.

BwcNtfyThrRange Values	Description
{0-100}	Percent
OFF	Off

CcMode

Continuity check mode.

This parameter indicates whether the specified end is to transmit continuity check cells, receive continuity check cells, or both transmit and receive.

CcMode Values	Description
RX	Receive. The connection point is to monitor for continuity check cells.
TX	Transmit. The connection point is to send continuity check cells.
TXRX	Transmit and Receive. The connection point is both to send and to monitor for continuity check cells.

CcType

Indicates the type of continuous monitoring continuity check that should be initiated.

CcType Values	Description
END-TO-END	End-to-End continuity check.
EXTSEG	Continuity check on the EXTERNAL SEGment.
INTSEG	Continuity check on the INTERNAL SEGment.

CellDelayVar

Identifies the cell delay variation which is a quality of service parameter specifying the variance in delay between ATM cells.

CellDelayVar Values	Description
{1-250}	Range of values.

ChanDSLLimit

Channel DSL Limit.

ChanDSLLimit Values	Description
{1-4}	Valid range.

ChanLimit

Channel Limit.

ChanLimit Values	Description
{1}	Valid range.

ChnlSelect0

Channel Selection/Allocation.

Settings for the channel path latency. Choosing a latency path of FAST means minimum (2ms) delay is expected while choosing a latency path of interleaved (INTLV) means more delay.

ChnlSelect0 Values	Description
FAST	A latency path of FAST means minimum (4ms) delay.
INTLV	A latency path of Interleaved means delay of greater than or equal to 5ms.

ChnlSelect1

Channel Selection/Allocation.

Settings for the channel path latency. Choosing a latency path of FAST means minimum (2ms) delay is expected while choosing a latency path of interleaved (INTLV) means more delay.

ChnlSelect1 Values	Description
DISABLE	Specifies that channel is not in use. This value specifies that this ADSL link is a single-channel link
FAST	A latency path of FAST means minimum (4ms) delay.
INTLV	A latency path of Interleaved means delay of greater than or equal to 5ms.

CidAccess

The access privileges which is associated with the front panel.

CidAccess Values	Description
FULLACC	Full access. This allows the user to have full access to the testing capabilities of the front panel.
NOACC	No access. The front panel is not to allow testing access.

CidSecurity

The security privileges which can be associated with a channel.

CidSecurity Values	Description
AUTOMSG	Autonomous message only. This allows only autonomous messages to be sent out the channel. The user cannot enter any commands other than ACT-USER (Activate User - Login) and CANC-USER (Cancel User).
FULLACC	Full access. This allows the user to have full access to both entering commands and receiving autonomous messages.
NOACC	No access. The channel has not external access.

CipherType

Encryption Cipher used for establishing IKE SA

CipherType Values	Description

3DES	Triple DES
AES128	Advanced Encryption Standard, 128-bit key
AES192	Advanced Encryption Standard, 192-bit key
AES256	Advanced Encryption Standard, 256-bit key
BLOWFISH	Blowfish
CAST	CAST
DES	Data Encryption Standard
NONE	No Encryption

ClassOfService

Indicate the quality of service desired.

ClassOfService Values	Description
CBR	Constant bit rate.
GFR	Guaranteed frame rate.
UBR	Unspecified bit rate.
UBR+	Unspecified Bit Rate Plus. On the C7 the UBR+ class of service uses the MCR to reserve bandwidth and enforces the PCR.
VBRNRT	Variable bit rate - non-real time.
VBRRT	Variable bit rate - real time.

CommandMode

Command execution mode.

CommandMode Values	Description
FRCD	Forced. May override existing parameter setting in an attempt to execute the command.
NORM	Normal. Normal validation will occur when attempting to execute the command.

ConditionEffect

What is the effect of the condition on the Network Element.

ConditionEffect Values	Description
CL	Cleared. A standing condition has cleared.
SC	Standing condition. Condition that is active for an

	extended period of time.
TC	Transient condition. Condition that does not change the basic condition of the NE for an extended period of time.

CondTypeAco

The condition types indicates the condition of the alarm cutoff generation status.

CondTypeAco Values	Description
ACODELD	Alarm cutoff is in delayed mode.
ACOIMED	Alarm cutoff is in immediate mode.
ACOMAN	Alarm cutoff is in manual mode.
NORMAL	Normal condition.

CondTypeAll

This is a list of all possible conditions which can exist on any possible entity within the C7. Some conditions apply to only a few entities while others may apply to multiple entities.

CondTypeAll Values	Description
ACODELD	Alarm cutoff is in delayed mode.
ACOIMED	Alarm cutoff is in immediate mode.
ACOMAN	Alarm cutoff is in manual mode.
ACT	ACTive. The entity is the active receiver of an active - standby protection pair.
ACTLPBK	Loopback in active position.
AIB	Alarm Indication Bit
AIRCOMPRESSOR	Air compressor failure.
AIRCOND	Air conditioning.
AIRDRYER	Air dryer failure.
AIS	Alarm indication signal detected.
AIS-L	SONET alarm indication signal detected - line.
AIS-M	Alarm indication signal detected on matrix.
AIS-P	SONET alarm indication signal detected - path.
AMAMPABSENT	Admin master AMP not present - A-to-Z may not work
AMPCPYAMCOMMFAIL	AMP Copy Administrative Master Communications Failure. The AMP has

	lost communication with the Administrative Master.
AMPCPYAMNOCOMM	AMP Copy Administrative Master No Communications. The AMP cannot establish communication with the Administrative Master.
AMPCPYAMOUTOFREV	AMP Copy Administrative Master Out of Rev. The Administrative Master is running the wrong software revision.
AMPCPYFAILED	AMP Copy Failed. AMP copy failed for some unknown reason.
AMPCPYFSFAIL	AMP Copy File System Failed. A filesystem was detected while performing the AMP copy.
AMPCPYINPROG	AMP Copy In Progress.
AMPCPYMULTIREQ	AMP Copy Multiple Requests. There are multiple AMP copy requests being made in the system.
AMPCPYNOADMIN	AMP Copy No Administrative Master. There is no Administrative Master assigned in the network.
AMPCPYXFERFAIL	AMP Copy File Transfer Failure. The AMP copy file transfer failed.
AMPOLTDLONTSWFAIL	ONT software download from AMP failed.
APPCRSM	Application Cross-Connect Mismatch. A mismatch was detected between an application (a cross-connect that has an Application Id) and the actual cross-connect database.
APPPROCERR	Application Process Error Detected. The APPPROCERR condition is raised by TSM (Task Sanity Manager) when it detects an application process that is takes too long to check in. The AlarmData field is used to encode which process is acting badly.
APSBB	Automatic Protection Switching Byte failure.
APSBB	Automatic Protection Switching Byte Babble.
APSCM	Automatic Protection Switching Channel Mismatch.
APSMM	Automatic Protection Switching Mode Mismatch.
ATMMONLOS	ATM diagnostic monitoring loss of signal. Failure of diagnostic ATM OAM loopback ping between two line units.
AUDITMM	Audit MisMatch failure for cross-

	connect.
BADPID	ONT Password Mismatch or not provisioned.
BAIS	ONT Circuit Emulation Failure, Port Back AIS.
BARINPRG	Backup And Restore event IN PRoGress.
BATDSCHRG	Battery discharge.
BATMISS	Battery backup is enabled but is not present.
BATTERY	Battery failure.
BE	Block error - SONET.
BPV	Bipolar violation.
BWCFEMM	Bandwidth Constraint Far-End Mismatch. This is raised when the bandwidth constraint link associations at the two ends of the fiber do not have the same values for the bandwidth reserved.
CALLPROCLU	Call processing disabled because either no transport (VDS1 or VSP) is assigned to the IG, or the line unit is not functioning.
CANC	A user's session was cancelled.
CCBPV	Composite clock bipolar violation density error.
CFGABRT	When the FE tries to use unacceptable configuration parameters.
CHANCTL	Channel Control failure. The IRC has lost communication with an optical line unit performing video switching.
CHAP	CHange Access Privileges. Access privileges for a management port were changed.
CLFAN	Cooling fan failure.
CLKFAILURE	Clock Failure.
COLDRESET	Cold reset of the processor or shelf. This includes a hardware reset and will affect traffic on the shelf or card.
COLDRESETOFDB	A cold reset of database include the wiping out of all data in the current database and resetting all processors in the shelf.
COMMSLINKDOWN	The internal C7 communications link is down.
CPE	Cell Phase Error.
CPMAJOR	Centralized power major environmental alarms or major equipment failure (e.g.FITL system).

CPMINOR	Centralized power minor environmental alarms or minor equipment failure (e.g.FITL system).
CRC-6	Cyclic redundancy check error.
CRPRDOWN	CRPR DOWN Alarm. This alarm is raised when the near-end stops receiving protocol messages for a period of time especially when there is no EQPT or SONET level alarm is detected.
CUTTHROUGHPXYDOWN	<p>Cut-through Proxy Down</p> <p>Cut Through Proxy is a CMS process. In CMS 4.0 release, CMS user can choose to launch separate iMS (or TL1) for a C7 network within CMS Gui application. 'Cut Through Proxy' acts as proxy for forwarding the TLV/TL1 commands from such iMS/TL1 clients to corresponding C7 networks.</p> <p>If 'Cut Through Proxy' is not responding or quits unexpectedly, "Cut Through Proxy Down" alarms will be raised by the CMS server. This alarm is MINOR and is not service affecting.</p>
DATAFAULT	DATA FAULT. Line Unit detected invalid provisioning data.
DATAFLOW	Data Flowing. This condition is set on an Ethernet port that is enabled and actually passing traffic. It is somewhat analogous to an LED that typically appears next to an Ethernet port.
DBDOWN	Database Down. The CMS database is not responsive.
DBFAULT	DataBase Fault.
DBMEMTRF	Database/memory transfer failed.
DCAFAIL	DCA Failure.
DCBFAIL	DCB Failure.
DD1FRCDSWTOINT	FoRCeD SWitch TO INTernal timing source - Derived DS1.
DD1FRCDSWTOPRI	FoRCeD SWitch TO PRImary timing source - Derived DS1.
DD1FRCDSWTOSEC	FoRCeD SWitch TO SECondary timing source - Derived DS1.
DD1MANSWTOINT	Manual SWitch TO INTernal timing source - Derived DS1.
DD1MANSWTOPRI	MANual SWitch TO PRImary timing source - Derived DS1.
DD1MANSWTOSEC	MANual SWitch TO SECondary timing

	source - Derived DS1.
DD1SWTOINT	SWitch TO INTernal timing source - Derived DS1.
DD1SWTOPRI	SWitch TO PRImary timing source - Derived DS1.
DD1SWTOSEC	SWitch TO SECondary timing source - Derived DS1.
DD1SYNCOOS	Loss of timing on all synchronization links - Derived DS1.
DD1SYNCPRI	Loss of timing on primary synchronization link - Derived DS1.
DD1SYNCSEC	Loss of timing on secondary synchronization link - Derived DS1.
DDSLBDS0DROP	DDS DS0 Drop Loopback
DDSLBDS0LINE	DDS DS0 Line Loopback
DDSLBLATCHCSU	DDS CSU Latch Loopback
DDSLBLATCHOCU	DDS OCU Latch Loopback
DDSLBNONLATCHCSU	DDS CSU Non Latch Loopback
DDSLBNONLATCHOCU	DDS OCU Non Latch Loopback
DDSLOOPOPEN	DDS Loop Open
DDSNOSYNC	DDS Loop Not Synchronized
DDSRLOS	DDS Loop RLOS
DHCPINSUFNPRSC	Insufficient Network Processor resources for DHCP
DHCPINTFADDR	DHCP: the new address is a network address
DHCPIPASNSTATICHOST	DHCP: The IP address of the new entry is already assigned to static host.
DHCPMACASSNSTATICHOST	DHCP: The MAC address of the new entry is already assigned to the static host.
DISABLE	Disabled. This condition is set on an Ethernet port once a VLAN has been assigned to another port on the same card. It is not ready to pass traffic in this state.
DISJDMN	DISJoint DoMaiN. For a minor alarm, raised on a shelf which is part of a domain that is disjoint.
DISKCAP	Disk Capacity. The CMS Server hard disk is nearing capacity. This threshold is 90% by default.
DISKFULL	Disk Full. The CMS Server hard disk is full. This will prevent the CMS from functioning properly.
DNR	Do Not Revert
DRAASSGIPDUP	DHCP: a duplicate IP address is assigned by a (misconfigured) DHCP

	server.
DRALEASERSCLOW	DHCP Relay Agent Resources are LOW. This event is triggered when the 6980 lease is assigned. There will be another event when the resource limit of 7000 has exceeded. 7001 Lease assigned by DHCP Server is not relayed by the DHCP Relay Agent to the host and is dropped.
DRANOLEASERSC	DHCP Relay Agent No Lease Resource Available. This event is raised when attempting to assign the 7001 lease. 7001 Lease assigned by DHCP Server is not relayed by the DHCP Relay Agent to the host and is dropped.
DUPAMPROV	DUPlicate Admin Master is PROVisioned. Indicates that more than one Admin Master is provisioned in the network.
DUPSHLFID	If two networks are merged and if there are shelves on both the networks with the same shelf id, this alarm is raised against the shelf that has the duplicate shelf id. The alarm will however be raised by the shelf where the link was connected.
DUPSID	Duplicate SID. This alarm will only be reported by the Calix Management System (CMS) and is raised when two nodes it is managing have the same SID. This prevents the CMS from being able to route incoming TL1 commands to the appropriate destination.
ENABLE	Enabled. This condition is set on an Ethernet port once a VLAN has been assigned to the port. It is ready to pass traffic in this state.
ENGINE	Engine.
ENGOPRG	Engine operating.
EOCDUPLEX	Embedded operations channel (EOC) duplex failure - both the primary and secondary EOC have failed.
EOCSIMPLEX	Embedded operations channel (EOC) duplex failure - either the primary or secondary EOC have failed.
EQPT	Critical alarm caused by equipment failure.
EQPTCOMM	Equipment communications failure.
EQPTDEG	Alarm caused by detection of equipment performing in a degraded mode.
ERFIC-P	Enhanced Remote Failure Indication

	Connectivity - Path
ERFIP-P	Enhanced Remote Failure Indication Payload - Path
ERFIS-P	Enhanced Remote Failure Indication Server - Path
EXPLGS	Explosive gas.
EXZ	Excessive zeros.
FAILTORLS	Failure to release from protection.
FAILTOSW	Failure to switch to protection.
FAN	Fan failure.
FE	Frame bit error.
FEBE	Far end block error.
FEBLK	FE reports that it is blocked.
FECFGABRT	FE reports unacceptable configuration parameters.
FEDMNMIS	Far End DoMaiN MISmatch. For a minor alarm raised on a link when there is a protection domain mismatch in provisioning on two ends of the link.
FEFFPMIS	Far End FFP MISmatch. A minor alarm raised on a link when there is a protection scheme mismatch in provisioning on two ends of the link.
FEINSUFLNK	FE reports that less than the minimum number of links are active.
FELOSSW	Far End Loss of Sync. Word
FEMM	Far End MisMatch detected.
FEPRLF	Far End Protection Line Failure. (For automatic protection switching)
FERXUNUSABLE	FE reports Rx-Unusable.
FESTRTUP	The FE is starting up.
FETXUNUSABLE	FE reports Tx-Unusable.
FILESYSTEMERR	File system error. A problem was detected with some of the code image(s) during boot up.
FIRDETR	Fire detector failure.
FIRE	Fire.
FLOOD	Flood.
FRCDSWTOINT	FoRCeD SWitch TO INTernal timing source
FRCDSWTOPRI	FoRCeD SWitch TO PRImary timing source
FRCDSWTORAP	FoRCeD SWitch DDS1 TO RAP timing source
FRCDSWTOSEC	FoRCeD SWitch TO SECondary timing source
FRCDSWTOSYS	FoRCeD SWitch DDS1 TO SYStem

	timing source
FRCDWKSWBK	FoRCeD WorKing SWitched to BaCK to working.
FRCDWKSWPR	FoRCeD WorKing SWitched to PRotection.
FREQMISMATCH	Frequency Mismatch condition.
FUSE	Fuse failure.
GEN	Generator failure.
GFRCELLLOSS	Guaranteed Traffic Cell Loss.
GR8DL	Datalink not receiving data on A/C links
GR8LNK	Alarm on GR-8 link A,B,C,D
HEAT	Heater failure.
HIAIR	High airflow.
HIHUM	High humidity.
HIRXPWR	High RX Power - Check/replace SFP or Fiber
HITEMP	High temperature.
HITXBIAS	High TX Bias Current - Check/replace SFP or Motherboard hardware (power supply)
HITXPWR	High TX Power - Check/replace SFP or Motherboard hardware (power supply)
HIVCC	High VCC - Check/replace SFP or Motherboard hardware (power supply)
HIWTR	High water.
HWUNKOWN	Hardware Unknown. Hardware of a type not known to the system software has been detected.
IMPROPRMVL	Improper removal of equipment.
INFO0	ONT Circuit Emulation Failure, Port INFO0 Reception.
INHEOC	Embedded Operations Channel (EOC) protection switching is inhibited.
INHMSG	Automatic messages to OS inhibited.
INHPM	Performance monitoring messages inhibited.
INHSwdx	Switch to duplex inhibited.
INHSwpr	Switch to protection inhibited.
INHSWWKG	Switch to working (i.e., release from protection) inhibited.
INHTMC	Time Slot Management Channel (TMC) protection switching is inhibited.
INHUPGRADE	Upgrade of standby is inhibited.
INSUFBW	Insufficient Line Bandwidth to support provisioned cross-connects.
INSUFLNK	Less than the minimum number of links

	are active.
INTRUDER	Intruder at equipment site.
INTRUSION	Intrusion alert at a management interface.
INVALIDBPID	Invalid BackPlane ID.
INVVPIVCI	Invalid VPI VCI on internal link.
JMSDOWN	JMS Server Down. The CMS JMS Server is not responsive.
LCC	Loss of Continuity - Cleared.
LCD	Loss of cell delineation.
LCD-F	Loss of Cell Delineation - Fast.
LCD-I	Loss of Cell Delineation - Interleaved.
LCD-P	Loss of Cell Deliniation - Path
LIF	Loss of IMA frame
LIGHT	Light failure.
LMM	Link Mismatch
LNKCONDISJDMN	LiNK ON DISJoint DoMaiN. A condition set on each link that contributes to a disjoint domain.
LOA	Loss of ACK.
LOC	Loss Of Continuity.
LOCKOUTOFPR	LOCKed OUT OF PRotection unit.
LOCKOUTOFWK	LOCKed OUT OF WorKing unit.
LODS	Link out of delay synchronization
LOF	Loss of frame.
LOF-M	Loss of frame on matrix side.
LOFPLCP	Loss of Frame - PLCP.
LOGBUFR90-ALM	Alarm log buffer 90% full.
LOGBUFR90-DBCHG	Database change log buffer 90% full.
LOGBUFR90-EVT	Event log buffer 90% full.
LOGBUFR90-SECU	Security log buffer 90% full.
LOGBUFR90-TCA	TCA log buffer 90% full.
LOGBUFROVFL-ALM	Alarm log buffer overflow.
LOGBUFROVFL-DBCHG	Database change log buffer overflow.
LOGBUFROVFL-EVT	Event log buffer overflow.
LOGBUFROVFL-SECU	Security log buffer overflow.
LOGBUFROVFL-TCA	TCA log buffer overflow.
LOGDOWN	Log Down. The CMS log process is not responsive.
LOGIN	A user logged in.
LOGINFAIL	A user's login attempt failed.
LOGINITALM	Alarm log has been initialized
LOGINITDBCHG	Database Change Log has been initialized
LOGINITEVT	Event log has been initialized

LOGINITTC	TCA log has been initialized
LOGOUT	A user logged out.
LOOPATTEN-LP1	Loop Attenuation, loop 1
LOOPATTEN-LP1C	Loop Attenuation, loop 1, Customer side
LOOPATTEN-LP1N	Loop Attenuation, loop 1, Network side
LOOPATTEN-LP2	Loop Attenuation, loop 2
LOOPATTEN-LP2C	Loop Attenuation, loop 2, Customer side
LOOPATTEN-LP2N	Loop Attenuation, loop 2, Network side
LOP	Loss of pointer.
LOP-P	SONET loss of pointer STS-path.
LOS	Loss of signal.
LOS-M	Loss of frame on matrix side.
LOSPPL	Loss of signal - PPL.
LOSW-LP1	Loss of Sync Word, loop 1
LOSW-LP1C	Loss of Sync Word, loop 1, Customer side
LOSW-LP1N	Loss of Sync Word, loop 1, Network side
LOSW-LP2	Loss of Sync Word, loop 2
LOSW-LP2C	Loss of Sync Word, loop 2, Customer side
LOSW-LP2N	Loss of Sync Word, loop 2, Network side
LPBKCRS	Loop back, cross-connect.
LPBKFACILITY	Loop back, Facility.
LPBKFACILITY-I	Inband Loop back, Facility.
LPBKLINE	Loop back, Line.
LPBKPAYLOAD	Loop back, Pay load
LPBKPAYLOAD-I	Inband Loop back, Pay load
LPBKTERMINAL	Loop back, Terminal.
LPBKTERMINAL-I	Inband Loop back, Terminal.
LPDINSUFNPRSC	Insufficient Network Processor resources for LPD
LPR	Loss of power.
LSWCRS	LSwitch Cross-Connects. The network-facing LSwitch port has no underlying Sonet cross-connects associated with it (through a VTI).
LSWFAIL	LSwitch Failure. The LSwitch has a failure with its underlying Sonet cross-connects. This could be due to a lack of bandwidth, or some other failure creating the Sonet cross-connects.
LSWVTI	LSwitch VTI. The network-facing LSwitch port has no VTI mapped to it.

LUSYNCMMCSA	Line Unit Synchronization Mis-Match on Rap-A.
LUSYNCMMCSB	Line Unit Synchronization Mis-Match on Rap-B.
LWBATVG	Low battery voltage.
LWFUEL	Low fuel.
LWHUM	Low humidity.
LWPRES	Low cable pressure.
LWRXPWR	RX Power Low
LWTEMP	Low temperature.
LWTXBIAS	TX Bias Current Low
LWTXPWR	TX Power Low
LWVCC	VCC Low
LWWTR	Low water.
MANSWTOINT	Manual synchronization switch to internal clock.
MANSWTOPRI	Manual synchronization switch to primary reference.
MANSWTORAP	MANual SWitch DDS1 TO RAP timing source
MANSWTOSEC	Manual synchronization switch to secondary reference.
MANSWTOSYS	MANual SWitch DDS1 TO SYStem timing source
MANWKSWBK	MANual WorKing SWitch BacK to working.
MANWKSWPR	MANual WorKing SWitch to PRotection.
MEA	Mismatch of equipment provisioning.
MEM	Message error Message.
MGMTIF	Management Interface IP Address was modified.
MIS	ONT Link Mismatch.
MISC	Miscellaneous failure.
NCD-F	No Cell Delineation - Fast.
NCD-I	No Cell Delineation - Interleaved.
NICDOWN	NIC Down. The CMS Northbound Interface Container is not responsive.
NOMGC	No communication with H.248 Media Gateway Controller.
NORADAMP	This indicates that both provisioned RADIUS client AMPs are not functioning.
NORADSERV	This indicates that both provisioned RADIUS servers are unresponsive.
NORMAL	Normal condition.
NTWKLOSTCOMM	Network Lost Communication. This

	alarm will only be reported by the Calix Management System (CMS) and is raised when the TCP/IP connection to a particular C7 network was lost.
OAML	ONT PLOAM Cell Loss.
OLTBLOCKED	OLT Arrival Blocked by amount of STS traffic provisioned in shelf.
OLTPROVNOAMP	OLT provisioned under shelf with no AMP present.
ONTDLFAIL	ONT software download failed.
ONTMISS	ONT Missing.
OOF	ONT Circuit Emulation Failure, Port Out of Frame.
OPENDR	Open door.
OVRDSW	Automatic protection switching overridden.
PEE	Physical Equipment Error.
PFI-P	Payload Failure Indication - Path
PIDEXP	A user's password expired.
PKTSLOTMM	This is an event indicating a mismatch in the backplane resource allocation for a given slot.
PLM-P	Payload Label Mismatch - Path.
PMDOWN	PM Down. The CMS Performance Monitoring process is not responsive. This will prevent the CMS from collecting PM data.
POWER	Commercial power failure.
PPLMM	Path Protection Label Mismatch. One of the following three conditions was detected: A cross-connect has a) an incorrect PPL, b) a PPL with no control VC, or c) an incorrect mate PPL.
PPPOEINSUFNPRSC	Insufficient Network Processor resources for PPPOE
PROTMIS	PROtection MISmatch. Equipment cannot offer provisioned protection.
PROTNA	Protection unit not available.
PROTNUNITDOWN	This condition is raised against an equipment unit that should be providing protection but is carrying an invalid service state.
PROVCAPOVF	PROVisioning CAPacity OVerFlow - This alarm is raised when rap flash usage exceeds the usable limit of 48M
PROVCAPTHR	PROVisioning CAPacity THreshold exceeded - This alarm is raised when rap flash usage exceeds the threshold limit of 44M

PROVFAIL	Provisioning Failure.
PS	Protection switching event into the specified AID.
PUMP	Pump failure.
PWR	Power management has powered down the equipment.
PWREXCEED	Power limit exceeded.
RADAMPFAIL	This indicates that the primary RADIUS client AMP is not functioning.
RADSERVFAIL	This indicates that the primary RADIUS server is unresponsive.
RAI	Remote alarm indication.
RAI-M	Remote alarm indication on matrix side.
REC	ONT Circuit Emulation Failure, Receive Alarm.
RECT	Rectifier failure.
RECTHI	Rectifier high voltage.
RECTLO	Rectifier low voltage.
REI	Remote Error Indication.
REI-L	Remote error indication - line.
REI-P	Remote error indication - path.
REMOTEALARM	Remote Alarm.
REPLUNITMISS	Replaceable equipment/unit is missing.
RFI	Remote failure indication.
RFI-IMA	Remote Failure Indicator IMA. A RFI-IMA failure is declared after 2.5 +/- 0.5 seconds of continuous RDI-IMA defect. A RFI-IMA failure is cleared after 10+/- 0.5 seconds of no RFI-IMA defect.
RFI-L	SONET remote failure indication - line.
RFI-M	Remote Failure Indication on matrix side. A failure indication has been received from the remote end. This is the non-soaked version of the RAI-M alarm.
RFI-P	SONET remote failure indication - STS path.
RFIPLCP	Remote failure indication - PLCP.
RFVIDRETLEOL	RF Video Return Laser End of Life
RINH	Receive Alarm Inhibit.
RSTPRECVDSTPFRAME	RSTP: An STP Frame has been received which means, lower RSTP.
RTCLK	Real time clock failure.
RTRN-LP1	Retrain, loop 1
RTRN-LP2	Retrain, loop 2
RXBWLMT	Receive Bandwidth Limit Exceeded.

	The aggregate bandwidth used by cross-connects tagged with the given constraint exceeds the bandwidth reserved for the constraint in the receive (ingress) direction. This should only happen if the RXLMT is lowered below the current utilization.
RXBWNTFY	Receive Bandwidth Usage Notification. The aggregate bandwidth used by cross-connects tagged with the given constraint exceeded the set threshold in the receive (ingress) direction.
RXMISCONN	Receive Link Misconnected. This is reported when the IMA unit has determined that the Rx link is not connected to the same far end IMA as the other Rx links in the group. Cleared when the IMA unit determines that the link is connected to the same FE as the other links in the group.
SCMMA	State change due to manual maintenance action.
SDBER	Signal degraded bit error rate.
SDBER-P	Signal Degraded Bit Error Rate - Path. This condition indicates that the Signal Degraded Bit Error Rate threshold has been exceeded for the path.
SECUDENY	A user was denied access due to insufficient privileges reasons.
SELTINPRG	ADSL Single Ended Line Testing in progress.
SFBER	Signal failed bit error rate.
SFBER-P	Signal Failure Bit Error Rate - Path. This condition indicates that the Signal Failure Bit Error Rate threshold has been exceeded for the path.
SFPMISSING	SFP is missing.
SFPNOTSUPP	SFP is present, but not Calix-compatible.
SHELFLOSTCOMM	Shelf Lost Communication.
SIPINVCFG	No Comment Defined.
SMOKE	Smoke detected.
SNRMARGIN-LP1	SNR margin error, loop 1
SNRMARGIN-LP1C	SNR margin error, loop 1, Customer side
SNRMARGIN-LP1N	SNR margin error, loop 1, Network side
SNRMARGIN-LP2	SNR margin error, loop 2
SNRMARGIN-LP2C	SNR margin error, loop 2, Customer side

SNRMARGIN-LP2N	SNR margin error, loop 2, Network side
SPKLR	Sprinkler failure.
SSHFAIL	This indicates a failure of the designated AMP's secure shell application to start. It must be cleared by resetting that AMP.
STBY	STandBY. The entity is the standby receiver of an active - standby protection pair.
STF	Self Test Failure.
SUF	ONT Start Up Failure
SWDLINPROG	Software Download in Progress.
SWFTDWN	Software download in progress.
SWINCOMP	Software Incompatibility
SWITCHLPBK	Switch initiated loopback (GR-8)
SWOUTOFREV	Software out of rev.
SWTOINT	Synchronization switch to internal clock.
SWTOPRI	Synchronization switch to primary reference.
SWTORAP	SWitch DDS1 TO RAP timing source
SWTOSEC	Synchronization switch to secondary reference.
SWTOSYS	SWitch DDS1 TO SYStem timing source
SYNCMGRDOWN	CMS Sync Manager Down SyncManager process synchronizes provision database from C7 network to CMS database. The alarm "SyncManager is down" means this service currently is not available in the CMS server. This alarm is MAJOR, but not service affecting.
SYNCOOS	Loss of timing on both primary and secondary synchronization links.
SYNCPRI	Loss of timing on primary synchronization link.
SYNCSEC	Loss of timing on secondary synchronization link.
SYNCSTATCHNG	Synchronization status change - used to signify a change in the synchronization status message of a SONET NE.
SYSBOOT	System reboot.
SYSSECUPROV	System security data has been modified via ED-SYS-SECU.
T-AEC	Threshold crossing violation for Alignment Error Counter.

T-BES	Threshold violation for BIP8 Errored Seconds.
T-BIP8	Threshold violation for BIP8 errors.
T-BOR	Threshold crossing violation for Buffer Overflow on Receive.
T-BOT	Threshold crossing violation for Buffer Overflow on Transmit.
T-CSS-P	Threshold violation for control slip seconds count - path.
T-CVCP-P	Threshold violation for coding violation count - path, DS3 CP-bit parity.
T-CVCP-PE	Threshold violation for coding violation count - egress path, DS3 CP-bit parity.
T-CVF-L	Threshold violation for coding violations fast - line.
T-CVI-L	Threshold violation for coding violations interleaved - line.
T-CVL	Threshold violation for coding violations count - line.
T-CVL-LP1	Threshold violation for coding violations count - line, loop 1.
T-CVL-LP2	Threshold violation for coding violations count - line, loop 2.
T-CVP	Threshold violation for coding violations count - path.
T-CVP-P	Threshold violation for coding violation count - path, DS3 P-bit parity.
T-CVP-PE	Threshold violation for coding violation count - egress path, DS3 P-bit parity.
T-CVS	Threshold violation for coding violations count - section.
T-DTC	Threshold crossing violation for Deferred Transmission Counter.
T-ECC	Threshold crossing violation for Excessive Collision Counter.
T-ECF-L	Threshold violation for forward error correction count fast - line.
T-ECI-L	Threshold violation for forward error correction count interleaved - line.
T-ECS-L	Threshold violation for forward error correction count second - line.
T-ESCP-P	Threshold violation for errored second count - path, DS3 CP-bit parity.
T-ESCP-PE	Threshold violation for errored second count - egress path, DS3 CP-bit parity.
T-ESL	Threshold violation for errored seconds - line.
T-ESL-LP1	Threshold violation for errored seconds

	- line, loop 1.
T-ESL-LP2	Threshold violation for errored seconds - line, loop 2.
T-ESP	Threshold violation for errored seconds count - path.
T-ESP-PE	Threshold violation for errored second count - egress path, DS3 P-bit parity.
T-ESS	Threshold violation for errored seconds count - section.
T-FCL	Threshold violation for Failure Count - Line
T-FCP	Threshold violation for Failure Count - Path
T-FCS	Threshold crossing violation for Frame Check Sequence.
T-FTL	Threshold crossing violation for Frame Too Long.
T-GR-FC	Threshold violation for Group Failure Count.
T-GR-UAS-IMA	Threshold violation for Unavailable Seconds IMA Group.
T-IMR	Threshold crossing violation for Internal MAC Receiver Error Counter.
T-IV-IMA	Threshold violation for ICP Violations.
T-LCC	Threshold crossing violation for Late Collision Counter.
T-LOSS-L	Threshold violation for LOS second - line.
T-MES	Threshold violation for Missing Errored Seconds.
T-MISS	Threshold violation for Missing Burst Errors.
T-OIF-IMA	Threshold violation for OIF anomalies.
T-PERU	Threshold violation for Percentage Utilization - Ingress.
T-PERUE	Threshold violation for Percentage Utilization - Egress.
T-PSCL	Threshold violation for Protection Switching Count - Line
T-PSDL	Threshold violation for Protection Switching Duration - Line
T-RX-FC	Threshold violation for Receive Link Failures.
T-RX-STUFF-IMA	Threshold violation for Received Stuff Events.
T-RX-UUS-IMA	Threshold violation for Received Unusable Seconds.
T-SAS-P	Threshold violation for severely errored

	framing/alarm indication signal second count.
T-SAS-PE	Threshold violation for severely errored framing/alarm indication signal second count - egress.
T-SASCP-P	Threshold violation for severely errored framing/alarm indication signal second count - path, DS3 CP-bit parity.
T-SASCP-PE	Threshold violation for severely errored framing/alarm indication signal second count - egress path, DS3 CP-bit parity.
T-SEFS	Threshold violation for severely errored framing second count - path.
T-SEFS-S	Threshold violation for severely errored framing second count - section
T-SES	Threshold violation for BIP8 Severely Errored Seconds.
T-SES-IMA	Threshold violation for Severely Errored Seconds.
T-SESCP-P	Threshold violation for severely errored second count - path, DS3 CP-bit parity.
T-SESCP-PE	Threshold violation for severely errored second count - egress path, DS3 CP-bit parity.
T-SESL	Threshold violation for severely errored seconds - line.
T-SESL-LP1	Threshold violation for severely errored seconds - line, loop 1.
T-SESL-LP2	Threshold violation for severely errored seconds - line, loop 2.
T-SESP	Threshold violation for severely error seconds count - path.
T-SESP-P	Threshold violation for severely errored second count - path, DS3 P-bit parity.
T-SESP-PE	Threshold violation for severely errored second count - egress path, DS3 P-bit parity.
T-SESS	Threshold violation for severely errored seconds coount - section.
T-SQE	Threshold crossing violation for SQE Counter.
T-TX-FC	Threshold violation for Transmit Link Failures.
T-TX-STUFF-IMA	Threshold violation for Transmit Stuff Events.
T-TX-UUS-IMA	Threshold violation for Transmit Unusable Seconds.
T-UAS	Threshold violation for BIP8 Unavailable Seconds.

T-UAS-IMA	Threshold violation for Unavailable Seconds IMA.
T-UASCP-P	Threshold violation for unavailable second count - path, DS3 CP-bit parity.
T-UASCP-PE	Threshold violation for unavailable second count - egress path, DS3 CP-bit parity.
T-UASL	Threshold violation for unavailable seconds - line.
T-UASL-LP1	Threshold violation for unavailable seconds count - line, loop 1.
T-UASL-LP2	Threshold violation for unavailable seconds count - line, loop 2.
T-UASP	Threshold violation for unavailable seconds count - path.
T-UASP-P	Threshold violation for unavailable seconds count DS3 P-bit parity - path.
T-UASP-PE	Threshold violation for unavailable second count - egress path, DS3 P-bit parity.
T-UIDAGE	Threshold of UID attempts has been acceded.
TDMPATHFAIL	TDM path failure has occurred on a path to a CRV for the IG.
TF	Transmission Failure.
TIM-P	SONET trace identifier message defect - path.
TIMING	Timing Error.
TIMMIS	When the FE transmit clock mode is different than the NE transmit clock.
TMCDUPLEX	Time slot management channel (TMC) duplex failure - both the primary and secondary TMC channels have failed.
TMCSIMPLEX	Time slot management channel (TMC) simplex failure - either the primary or secondary TMC channel has failed.
TMPLPROV	A security template was provisioned.
TOPOLOGYCHG	A Topology Change has occurred
TOXICGAS	Toxic gas.
TRAFTHR	Traffic Threshold Crossing. VCG active calls exceeded the threshold set by the CAPALMTHR parameter.
TRFIMPAIRMENT	Anomalous Traffic Impairment condition detected by the GAP or GRX drivers. This condition indicates an error counter or status bit is behaving in an unusual manner likely caused by conditions elsewhere in the shelf or network. The alarm is reported by a line

	unit in the C7.
TSA	Test session active.
TXBWLMT	Transmit Bandwidth Limit Exceeded. The aggregate bandwidth used by cross-connects tagged with the given constraint exceeds the bandwidth reserved for the constraint in the transmit (egress) direction. This should only happen if the TXLMT is lowered below the current utilization.
TXBWNTFY	Transmit Bandwidth Usage Notification. The aggregate bandwidth used by cross-connects tagged with the given constraint exceeded the set threshold in the transmit (egress) direction.
TXFAULT	TX Fault indicated by SFP - check/replace SFP. Corresponding UEQ SST on port.
TXMC	Tx link is not connected to same FE IMA unit as other Tx Links in the group
UNEQ-P	UNEQuipped - Path.
USERPROV	A user was provisioned.
VENTN	Ventilation system failure.
VIDAUDTMOUT	Video Audit Timeout. The Video application on the IRC has been unable to complete an audit cycle for 48 hours. This may be due to frequent topology changes a network with large numbers of cross-connects.
VIDCRSMM	Video Cross-Connect Mismatch. The Video application on the IRC detected a cross-connect is missing from the RAP cross-connect database.
VIDPARMMP	Video Parameter Mismatch. The Video application on the IRC detected a cross-connect in the RAP cross-connect database has differing parameters.
VIDSUBNOBW	No Bandwidth available on Video Subscriber. This occurs when a STB requests more broadcast video bandwidth than has been provisioned for that subscriber.
VIDVCMM	Video VC Mismatch. A video VC was not properly acknowledged by the line unit performing video switching.
VIDVCTHRESH	This condition is raised against an IRC when it reaches 80 percent of its storage capacity for VIDVCs.
VODDSTLU	The keepalives between the IRC and the

	VOD Destination LU have timed out.
VODFLOWFAIL	A VOD flow was aborted.
VODSRCLU	The keepalives between the IRC and the VOD Source LU have timed out.
VRPNOTSUPPORTED	Video Return Path Not Supported
WARMRESET	Warm restart resets the processor or shelf but does not affect the hardware registers.
WKSWBK	Working SWitched BacK to working.
WKSWPR	Working SWitched to PRotection unit.
WTR	Waiting To Restore
XLANMM	XLAN Mismatch. The network-facing LSwitch port has different XLANs are cross connected together (through a VTI).
XLANOPEN	XLAN Open. This only applies for an XLAN topology of EPR. Only the LSwitches at the end of the linear chain that is created from a result of the break in the ring will report this.

CondTypeAp

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can occur on an ATM Resource port (AP). The list includes threshold-crossing events associated with current GOS provisioning on the port.

CondTypeAp Values	Description
ATMMONLOS	ATM diagnostic monitoring loss of signal. Failure of diagnostic ATM OAM loopback ping between two line units.
AUDITMM	Audit MisMatch failure for cross-connect.
COMMSLINKDOWN	The internal C7 communications link is down.
FEDMNMIS	Far End DoMaiN MISmatch. For a minor alarm raised on a link when there is a protection domain mismatch in provisioning on two ends of the link.
FEMM	Far End MisMatch detected.
FERXUNUSABLE	FE reports Rx-Unusable.
FETXUNUSABLE	FE reports Tx-Unusable.
LCD	Loss of cell delineation.
LIF	Loss of IMA Frame Failure. A LIF failure is declared after 2.5 +/- 0.5 seconds of continuous LIF defect. A LIF failure is cleared after 10+/- 0.5 seconds of no LIF defect.
LNKCONDISJDMN	LiNK ON DISJoint DoMaiN. A condition set on each link that contributes to a disjoint domain.
LODS	Link Out of Delay Synchronization. The LODS is

	a link event indicating that the link is not synchronized with the other links within the IMA group. A LODS failure is declared after 2.5 +/- 0.5 seconds of continuous LODS defect. A LODS failure is cleared after 10+/- 0.5 seconds of no LODS defect.
PROVFAIL	Provisioning Failure for cross-connect.
RFI-IMA	Remote Failure Indicator IMA. A RFI-IMA failure is declared after 2.5 +/- 0.5 seconds of continuous RDI-IMA defect. A RFI-IMA failure is cleared after 10+/- 0.5 seconds of no RFI-IMA defect.
RXMISCONN	Receive Link Misconnected. This is reported when the IMA unit has determined that the Rx link is not connected to the same far end IMA as the other Rx links in the group. Cleared when the IMA unit determines that the link is connected to the same FE as the other links in the group.
SCMMA	State change due to manual maintenance action.
T-IV-IMA	ICP Violations: count of errored, invalid, or missing ICP cells, except during seconds where a SES-IMA or UAS-IMA condition is reported.
T-OIF-IMA	Count of OIF anomalies except during SES-IMA or UAS-IMA conditions
T-PERU	Threshold violation for Percentage Utilization - Ingress.
T-PERUE	Threshold violation for Percentage Utilization - Egress.
T-RX-FC	Threshold violation for Receive Link Failures.
T-RX-STUFF-IMA	Threshold violation for Received Stuff Events.
T-RX-UUS-IMA	Threshold violation for Received Unusable Seconds.
T-SES-IMA	Near End: Count of 1-second intervals containing $\geq 30\%$ of the ICP cells counted as IV-IMAs, or one or more near-end link defects (facility, LIF, or LODS) during non-UAS-IMA intervals. The number of IV-IMA counts required to meet the 30% criteria will depend on the facility line rate and the IMA frame size (M). Far End: Count of 1-second intervals containing one or more RDI-IMA defects except during UAS-IMA-FE conditions.
T-TX-FC	Threshold violation for Transmit Link Failures.
T-TX-STUFF-IMA	Threshold violation for Transmit Stuff Events.
T-TX-UUS-IMA	Threshold violation for Transmit Unusable Seconds.
T-UAS-IMA	Threshold crossing event for Unavailable Seconds. Near End: Unavailability begins at the onset of 10 contiguous SES-IMA including the first 10

	<p>seconds to enter the UAS-IMA condition, and ends at the onset of 10 contiguous second with no SES-IMA, excluding the last 10 seconds to exit the UAS-IMA condition.</p> <p>Far End: Unavailability begins at the onset of 10 contiguous SES-IMA-FE including the first 10 seconds to enter the UAS-IMA-FE condition, and ends at the onset of 10 contiguous second with no SES-IMA-FE, excluding the last 10 seconds to exit the UAS-IMA-FE condition.</p>
TXMISCONN	Transmit Link Misconnected. This is reported when the IMA unit has determined that the Tx link is not connected to the same far end IMA as the other Tx links in the group. Cleared when the IMA unit determines that the link is connected to the same FE as the other links in the group.

CondTypeAvo

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can occur on an Analog Video Overlay Port.

CondTypeAvo Values	Description
LOS	Loss of signal.

CondTypeBwcLink

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can occur on a Link Bandwidth Constraint.

CondTypeBwcLink Values	Description
BWCFEMM	Bandwidth Constraint Far-End Mismatch. This is raised when the bandwidth constraint link associations at the two ends of the fiber do not have the same values for the bandwidth reserved.
NORMAL	Normal condition.
RXBWLMT	Receive Bandwidth Limit Exceeded. The aggregate bandwidth used by cross-connects tagged with the given constraint exceeds the bandwidth reserved for the constraint in the receive (ingress) direction. This should only happen if the RXLMT is lowered below the current utilization.
RXBWNTFY	Receive Bandwidth Usage Notification. The aggregate bandwidth used by cross-connects tagged with the given constraint exceeded the set threshold

	in the receive (ingress) direction.
TXBWLMT	Transmit Bandwidth Limit Exceeded. The aggregate bandwidth used by cross-connects tagged with the given constraint exceeds the bandwidth reserved for the constraint in the transmit (egress) direction. This should only happen if the TXLMT is lowered below the current utilization.
TXBWNTFY	Transmit Bandwidth Usage Notification. The aggregate bandwidth used by cross-connects tagged with the given constraint exceeded the set threshold in the transmit (egress) direction.

CondTypeCms

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can occur on the Calix Management System (CMS).

CondTypeCms Values	Description
CUTTHROUGHProxyDOWN	Cut-through Proxy Down Cut Through Proxy is a CMS process. In CMS 4.0 release, CMS user can choose to launch separate iMS (or TL1) for a C7 network within CMS Gui application. 'Cut Through Proxy' acts as proxy for forwarding the TLV/TL1 commands from such iMS/TL1 clients to corresponding C7 networks. If 'Cut Through Proxy' is not responding or quits unexpectedly, "Cut Through Proxy Down" alarms will be raised by the CMS server. This alarm is MINOR and is not service affecting.
DBDOWN	Database Down. The CMS database is not responsive.
DISKCAP	Disk Capacity. The CMS Server hard disk is nearing capacity. This threshold is 90% by default.
DISKFULL	Disk Full. The CMS Server hard disk is full. This will prevent the CMS from functioning properly.
JMSDOWN	JMS Server Down. The CMS JMS Server is not responsive.
LOGDOWN	Log Down. The CMS log process is not responsive.
NICDOWN	NIC Down. The CMS Northbound Interface Container is not responsive.
PMDOWN	PM Down. The CMS Performance

	Monitoring process is not responsive. This will prevent the CMS from collecting PM data.
SYNCMGRDOWN	CMS Sync Manager Down SyncManager process synchronizes provision database from C7 network to CMS database. The alarm "SyncManager is down" means this service currently is not available in the CMS server. This alarm is MAJOR, but not service affecting.

CondTypeContEvt

The condition type which is to be associated with a specific external control event.

CondTypeContEvt Values	Description
AIRCOND	Air conditioning.
ENGINE	Engine.
FAN	Fan.
GEN	Generator.
HEAT	Heat.
LIGHT	Light.
MISC	Miscellaneous.
SPKLR	Sprinkler.

CondTypeDsl

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can occur on an DSL port.

CondTypeDsl Values	Description
APPCRSM	Application Cross-Connect Mismatch. A mismatch was detected between an application (a cross-connect that has an Application Id) and the actual cross-connect database.
AUDITMM	Audit MisMatch failure for cross-connect.
FEMM	Far End MisMatch detected.
LCD-F	Loss of Cell Delineation - Fast.
LCD-I	Loss of Cell Delineation - Interleaved.
LOF	Loss of frame.
LOS	Loss of signal.
LPR	Loss of power.

NCD-F	No Cell Delineation - Fast.
NCD-I	No Cell Delineation - Interleaved.
NORMAL	Normal condition.
PROVFAIL	Provisioning Failure for cross-connect.
RFI	Remote Failure Indication.
SCMMA	State change due to manual maintenance action.
SELTINPRG	ADSL Single Ended Line Testing in progress. While in progress, SELT cannot be performed on other ports of this card. Port provisioning is not allowed during SELT.
TSA	Test session active.
VIDCRSMM	Video Cross-Connect Mismatch. The Video application on the IRC detected a cross-connect is missing from the RAP cross-connect database.
VIDPARMNM	Video Parameter Mismatch. The Video application on the IRC detected a cross-connect in the RAP cross-connect database has differing parameters.
VIDVCMM	Video VC Mismatch. A video VC was not properly acknowledged by the line unit performing video switching.

CondTypeDslAlm

The condition types indicates the possible trouble conditions which can cause alarms against a DSL port.

CondTypeDslAlm Values	Description
APPCRSM	Application Cross-Connect Mismatch. A mismatch was detected between an application (a cross-connect that has an Application Id) and the actual cross-connect database.
AUDITMM	Audit MisMatch failure for cross-connect.
FEMM	Far End MisMatch detected.
LCD-F	Loss of Cell Delineation - Fast.
LCD-I	Loss of Cell Delineation - Interleaved.
LOF	Loss of frame.
LOS	Loss of signal.
LPR	Loss of power.
NCD-F	No Cell Delineation - Fast.
NCD-I	No Cell Delineation - Interleaved.
PROVFAIL	Provisioning Failure for cross-connect.
RFI	Remote Failure Indication.
VIDCRSMM	Video Cross-Connect Mismatch. The Video application on the IRC detected a cross-connect is missing from the RAP cross-connect database.

VIDPARMM	Video Parameter Mismatch. The Video application on the IRC detected a cross-connect in the RAP cross-connect database has differing parameters.
VIDVCMM	Video VC Mismatch. A video VC was not properly acknowledged by the line unit performing video switching.

CondTypeDslEvt

The condition types indicates the possible trouble conditions which can cause events against a DSL port.

CondTypeDslEvt Values	Description
AUDITMM	Audit MisMatch failure for cross-connect.
DHCPIPINUSE	The DHCP relay has tried to offer an IP address that is already being used by another device.
FEMM	Far End MisMatch detected.
LCD-F	Loss of Cell Delineation - Fast.
LCD-I	Loss of Cell Delineation - Interleaved.
LOF	Loss of frame.
LOS	Loss of signal.
LPR	Loss of power.
NCD-F	No Cell Delineation - Fast.
NCD-I	No Cell Delineation - Interleaved.
PROVFAIL	Provisioning Failure for cross-connect.
RFI	Remote Failure Indication.
T-CVF-L	Threshold violation for coding violations fast - line.
T-CVI-L	Threshold violation for coding violations interleaved - line.
T-ECF-L	Threshold violation for forward error correction count fast - line.
T-ECI-L	Threshold violation for forward error correction count interleaved - line.
T-ECS-L	Threshold violation for forward error correction count second - line.
T-ESL	Threshold violation for errored seconds - line.
T-LOSC	Threshold violation for LOSC / Retrains.
T-LOSS-L	Threshold violation for LOS second - line.
T-PERU	Threshold violation for Percentage Utilization - Ingress.
T-PERUE	Threshold violation for Percentage Utilization - Egress.
T-SESL	Threshold violation for severely errored seconds - line.
T-UASL	Threshold violation for unavailable seconds - line.

CondTypeEc1

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can occur on an EC1 port.

CondTypeEc1 Values	Description
AUDITMM	Audit MisMatch failure for cross-connect.
LOF	Loss Of Frame
LOS	Loss of signal.
PROVFAIL	Provisioning Failure for cross-connect.

CondTypeEc1Alm

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can cause alarms to occur on an EC1 port.

CondTypeEc1Alm Values	Description
AUDITMM	Audit MisMatch failure for cross-connect.
LOF	Loss Of Frame
LOS	Loss of signal.
PROVFAIL	Provisioning Failure for cross-connect.

CondTypeEc1Evt

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can cause events to occur on an EC1 port.

CondTypeEc1Evt Values	Description
AUDITMM	Audit MisMatch failure for cross-connect.
LOF	Loss Of Frame
LOS	Loss of signal.
PROVFAIL	Provisioning Failure for cross-connect.

CondTypeEnvAlm

The condition types indicates the possible trouble conditions which can cause alarms against the environmental contacts.

CondTypeEnvAlm Values	Description
AIRCOMPR	Air compressor failure.
AIRCOND	Air conditioning failure.
AIRDRYR	Air dryer failure.
BATDSCHRG	Battery discharging.
BATTERY	Battery failure.
CLFAN	Cooling fan failure.
CPMAJOR	Centralized power major environmental alarm or major equipment failure.
CPMINOR	Centralized power minor environmental alarm or minor equipment failure.
ENGINE	Engine failure.
ENGOPRG	Engine operating.
EXPLGS	Explosive gas.
FIRDETR	Fire detector failure.
FIRE	Fire.
FLOOD	Flood.
FUSE	Fuse failure.
GEN	Generator failure.
HIAIR	High airflow.
HIHUM	High humidity.
HITEMP	High temperature.
HIWTR	High water.
INTRUDER	Intrusion.
LWBATVG	Low battery voltage.
LWFUEL	Low fuel.
LWHUM	Low humidity.
LWPRES	Low cable pressure.
LWTEMP	Low temperature.
LWWTR	Low water.
MISC	Miscellaneous.
OPENDR	Open door.
POWER	Commercial power failure.
PUMP	Pump failure.
RECT	Rectifier failure.
RECTHI	Rectifier high voltage.
RECTLO	Rectifier low voltage.
SMOKE	Smoke detected.
TOXICGAS	Toxic gas.
VENTN	Ventilation system failure.

CondTypeEqpt

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can be applied to equipment.

CondTypeEqpt Values	Description
AMPCPYAMCOMMFAIL	AMP Copy Administrative Master Communications Failure. The AMP has lost communication with the Administrative Master.
AMPCPYAMNOCOMM	AMP Copy Administrative Master No Communications. The AMP cannot establish communication with the Administrative Master.
AMPCPYAMOUTOFREV	AMP Copy Administrative Master Out of Rev. The Administrative Master is running the wrong software revision.
AMPCPYFAILED	AMP Copy Failed. AMP copy failed for some unknown reason.
AMPCPYFSFAIL	AMP Copy File System Failed. A filesystem was detected while performing the AMP copy.
AMPCPYINPROG	AMP Copy In Progress.
AMPCPYMULTIREQ	AMP Copy Multiple Requests. There are multiple AMP copy requests being made in the system.
AMPCPYNOADMIN	AMP Copy No Administrative Master. There is no Administrative Master assigned in the network.
AMPCPYXFERFAIL	AMP Copy File Transfer Failure. The AMP copy file transfer failed.
AMPOLTDLONTSWFAIL	ONT software download from AMP failed.
APPPROCERR	Application Process Error Detected. The APPPROCERR condition is raised by TSM (Task Sanity Manager) when it detects an application process that is takes too long to check in. The AlarmData field is used to encode which process is acting badly.
AUDITMM	Audit MisMatch failure.
BARINPRG	Backup And Restore event IN PRoGress.
CHANCTL	Channel Control failure. The IRC has lost communication with an optical line unit performing video switching.
CLFAN	Cooling fan failure.
CLKFAILURE	Clock Failure.
COLDRESET	Cold reset of the processor or shelf. This includes a hardware reset and will affect traffic on the shelf or card.
DATAFAULT	DATA FAULT. Line Unit detected invalid provisioning data.

DHCPINSUFNPRSC	Insufficient Network Processor resources for DHCP
DRALEASERSCLOW	DHCP Relay Agent Resources are LOW. This event is triggered when the 6980 lease is assigned. There will be another event when the resource limit of 7000 has exceeded. 7001 Lease assigned by DHCP Server is not relayed by the DHCP Relay Agent to the host and is dropped.
DRANOLEASERSC	DHCP Relay Agent No Lease Resource Available. This event is raised when attempting to assign the 7001 lease. 7001 Lease assigned by DHCP Server is not relayed by the DHCP Relay Agent to the host and is dropped.
EQPT	Alarm caused by equipment failure.
EQPTCOMM	Equipment communications failure.
EQPTDEG	Alarm caused by detection of equipment performing in a degraded mode.
FAILTORLS	Failure to release from protection.
FAILTOSW	Failure to switch to protection.
FILESYSTEMERR	File system error. A problem was detected with some of the code image(s) during boot up.
HITEMP	High Temperature.
HWINCOMPAT	Hardware Incompatibility. The hardware in this slot is incompatible with the software load.
HWUNKOWN	Hardware Unknown. Hardware of a type not known to the system software has been detected.
IMPROPRMVL	Improper removal of equipment.
INHSWDX	Duplex switching is inhibited.
INHSWPR	Protection unit switching is inhibited.
INHSWWKG	Working unit switching is inhibited.
INVALIDBPID	Invalid Backplane ID.
LPDINSUFNPRSC	Insufficient Network Processor resources for LPD
LUSYNCMMCSA	Line Unit Synchronization Mis-Match on Rap-A.
LUSYNCMMCSB	Line Unit Synchronization Mis-Match on Rap-B.
LWTEMP	Low Temperature.
MANWKSWBK	Manual switch of working facility/equipment back to working.
MANWKSWPB	Manual switch of working facility/equipment to protection unit.
MEA	Mismatch of equipment of provisioning attributes.

NORMAL	Normal condition.
OLTBLOCKED	OLT Arrival Blocked by amount of STS traffic provisioned in shelf.
PKTSLOTMM	This is an event indicating a mismatch in the backplane resource allocation for a given slot.
PPPOEINSUFNPRSC	Insufficient Network Processor resources for PPPOE
PROTMIS	PROTection MISmatch. Equipment cannot offer provisioned protection.
PROTNA	Protection unit not available.
PROTNUNITDOWN	This condition is raised against an equipment unit that should be providing protection but is carrying an invalid service state.
PROVFAIL	Provisioning Failure.
PWR	Power management has powered down the equipment.
REPLUNITMISS	Replaceable equipment/unit is missing.
RTCLK	Real time clock failure.
SCMMA	State change due to manual maintenance action.
SWINCOMP	Software incompatibility.
SWOUTOFREV	Software out of rev.
TIMING	Timing Error.
TRFIMPAIRMENT	Anomalous Traffic Impairment condition detected by the GAP or GRX drivers. This condition indicates an error counter or status bit is behaving in an unusual manner likely caused by conditions elsewhere in the shelf or network. The alarm is reported by a line unit in the C7.
VIDAUDTMOUT	Video Audit Timeout. The Video application on the IRC has been unable to complete an audit cycle for 48 hours. This may be due to frequent topology changes a network with large numbers of cross-connects.
VIDVCTHRESH	This condition is raised against an IRC when it reaches 80 percent of its storage capacity for VIDVCs.
VODDSTLU	The keepalives between the IRC and the VOD Destination LU have timed out.
VODSRCLU	The keepalives between the IRC and the VOD Source LU have timed out.
WARMRESET	Warm restart resets the processor or shelf but does not affect the hardware registers.
WKSWBK	Working facility/equipment switched back to working.
WKSWPB	Working facility/equipment switched to protection unit.

CondTypeEth

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can occur on an Ethernet port.

CondTypeEth Values	Description
APPCRSM	Application Cross-Connect Mismatch. A mismatch was detected between an application (a cross-connect that has an Application Id) and the actual cross-connect database.
DATAFLOW	Data Flowing. This condition is set on an Ethernet port that is enabled and actually passing traffic. It is somewhat analogous to an LED that typically appears next to an Ethernet port.
DISABLE	Disabled. This condition is set on an Ethernet port once a VLAN has been assigned to another port on the same card. It is not ready to pass traffic in this state.
ENABLE	Enabled. This condition is set on an Ethernet port once a VLAN has been assigned to the port. It is ready to pass traffic in this state.
HIRXPWR	High RX Power - Check/replace SFP or Fiber
HITXBIAS	High TX Bias Current - Check/replace SFP or Motherboard hardware(Power Supply)
HITXPWR	High TX Power - Check/replace SFP or Motherboard hardware(Power Supply)
HIVCC	High VCC - Check/replace SFP or Motherboard hardware(Power Supply)
IMPROPRMVL	Improper removal of equipment.
LMM	No Comment Defined.
LOS	Loss of signal.
LSWITCH	The port has been added to an LSwitch.
LWRXPWR	RX Power Low
LWTXBIAS	TX Bias Current Low
LWTXPWR	TX Power Low
LWVCC	VCC Low
NORMAL	Normal condition.
PROVFAIL	Provisioning Failure for cross-connect.
SCMMA	State change due to manual maintenance action.
T-AEC	Threshold crossing violation for Alignment Error Counter.
T-BOR	Threshold crossing violation for Buffer Overflow on Receive.
T-BOT	Threshold crossing violation for Buffer Overflow on Transmit.

T-DTC	Threshold crossing violation for Deferred Transmission Counter.
T-ECC	Threshold crossing violation for Excessive Collision Counter.
T-FCS	Threshold crossing violation for Frame Check Sequence.
T-FTL	Threshold crossing violation for Frame Too Long.
T-IMR	Threshold crossing violation for Internal MAC Receiver Error Counter.
T-LCC	Threshold crossing violation for Late Collision Counter.
T-SQE	Threshold crossing violation for SQE Counter.
TXFAULT	TX Fault indicated by SFP. Check/replace SFP. Corresponding UEQ SST on port.
VIDCRSMM	Video Cross-Connect Mismatch. The Video application on the IRC detected a cross-connect is missing from the RAP cross-connect database.
VIDPARMNM	Video Parameter Mismatch. The Video application on the IRC detected a cross-connect in the RAP cross-connect database has differing parameters.
VIDVCMM	Video VC Mismatch. A video VC was not properly acknowledged by the line unit performing video switching.

CondTypeH248

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can occur on an H.248 Interface Group.

CondTypeH248 Values	Description
CALLPROCLU	Call processing disabled because either no transport (VDS1 or VSP) is assigned to the IG, or the line unit is not functioning.
MGC1UP	C7 is in communication with MGC1.
MGC2UP	C7 is in communication with MGC2.
NOMGC	No communication with H.248 Media Gateway Controller.
TRAFTHR	Traffic Threshold Crossing. VCG active calls exceeded the threshold set by the CAPALMTHR parameter.

CondTypeHdsl

The condition types indicates the possible trouble condition, irregularities, errors, off-normal

condition which can occur on an HDSL port.

CondTypeHdsl Values	Description
ACTLPBK	Active Loopback. A loopback is active on the port.
AIS	Alarm indication signal detected.
AUDITMM	Audit MisMatch failure for cross-connect.
COMMSLINKDOWN	The internal C7 communications link is down.
DBFAULT	DataBase Fault.
EXZ	Excessive zeros.
FEBE	Far end block error.
FEDMNMIS	Far End DoMaiN MISmatch. For a minor alarm raised on a link when there is a protection domain mismatch in provisioning on two ends of the link.
FEMM	Far End MisMatch detected.
LOF	Loss of frame.
LOOPATTEN-LP1	Loop Attenuation, loop 1
LOOPATTEN-LP1C	Loop Attenuation, loop 1, Customer side
LOOPATTEN-LP1N	Loop Attenuation, loop 1, Network side
LOOPATTEN-LP2	Loop Attenuation, loop 2
LOOPATTEN-LP2C	Loop Attenuation, loop 2, Customer side
LOOPATTEN-LP2N	Loop Attenuation, loop 2, Network side
LOS	Loss of signal.
LOSW-LP1	Loss of Sync Word, loop 1
LOSW-LP1C	Loss of Sync Word, loop 1, Customer side
LOSW-LP1N	Loss of Sync Word, loop 1, Network side
LOSW-LP2	Loss of Sync Word, loop 2
LOSW-LP2C	Loss of Sync Word, loop 2, Customer side
LOSW-LP2N	Loss of Sync Word, loop 2, Network side
LPBKFacility	Loop back, Facility
LPBKFacility-I	Inband Loop back, Facility
LPBKPayload	Loop back, Payload
LPBKPayload-I	Inband Loop back, Payload
LPBKTerminal	Loop back, Terminal.
LPBKTerminal-I	Inband Loop back, Terminal.
NORMAL	Normal condition exists.
PROVFAIL	Provisioning Failure for cross-connect.
RAI	Remote alarm indication.
RTRN-LP1	Retrains, loop 1.
RTRN-LP2	Retrains, loop 2.
SCMMA	State change due to manual maintenance action.
SNRMARGIN-LP1	SNR Margin, loop 1
SNRMARGIN-LP1C	SNR margin error, loop 1, Customer side
SNRMARGIN-LP1N	SNR margin error, loop 1, Network side
SNRMARGIN-LP2	SNR Margin, loop 2

SNRMARGIN-LP2C	SNR margin error, loop 2, Customer side
SNRMARGIN-LP2N	SNR margin error, loop 2, Network side
T-AIIS-P	No Comment Defined.
T-AIIS-PE	No Comment Defined.
T-CSS-P	Threshold violation for control slip seconds count - path.
T-CVL-LP1	Threshold violation for code violations - line, loop 1.
T-CVL-LP2	Threshold violation for code violations - line, loop 2.
T-CVP	Threshold violation for coding violations count - line.
T-ESL-LP1	Threshold violation for errored seconds - line, loop 1.
T-ESL-LP2	Threshold violation for errored seconds - line, loop 2.
T-ESP	Threshold violation for errored seconds count - path.
T-SAS-P	Threshold violation for severely errored framing/alarm indication signal second count.
T-SEFS	Threshold violation for severely errored framing second count.
T-SEFS-P	Threshold violation for severely errored framing second count - path.
T-SESL-LP1	Threshold violation for severely error seconds count - line, loop 1.
T-SESL-LP2	Threshold violation for severely error seconds count - line, loop 2.
T-SESP	Threshold violation for severely error seconds count - path.
T-UASL-LP1	Threshold violation for unavailable seconds count - line, loop 1.
T-UASL-LP2	Threshold violation for unavailable seconds count - line, loop 2.
T-UASP	Threshold violation for unavailable seconds count - path.
TSA	Test session active.

CondTypeIg

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can cause alarms or event on the Interface Group or its Data Links.

CondTypeIg Values	Description
DBFAULT	DataBase Fault.
EOCDUPLEX	Embedded operations channel (EOC) duplex failure

	- both the primary and secondary EOC channels have failed.
EOCSIMPLEX	Embedded operations channel (EOC) simplex failure - either the primary or secondary EOC channel has failed.
TDMPATHFAIL	TDM path failure has occurred on a path to a CRV for the IG.
TMCDUPLEX	Time slot management shannel (TMC) duplex failure - both the primary and secondary TMC channels have failed.
TMCSIMPLEX	Time slot management dchannel (TMC) simplex failure - either the primary or secondary TMC channel has failed.
TRAFTHR	Traffic Threshold Crossing. VCG active calls exceeded the threshold set by the CAPALMTHR parameter.

CondTypeIma

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can occur on an IMA group.

CondTypeIma Values	Description
ATMMONLOS	ATM diagnostic monitoring loss of signal. Failure of diagnostic ATM OAM loopback ping between two line units.
AUDITMM	Audit MisMatch failure for cross-connect.
CFGABRT	Config-Abort State. The receipt of unacceptable configuration commands from the Far-End group state machine. The Near-End group state machine is in the Config-Abort state.
COMMSLINKDOWN	The internal C7 communications link is down.
FEBLK	Far End Blocked State. The FE group state machine is in the Blocked state. This state is reached when the group is inhibited from becoming operational but sufficient links are available.
FECFGABRT	Far End Config-Abort State. When the FE reports unacceptable configuration parameters. The FE group state machine is in the Config-Abort state.
FEDMNMIS	Far End DoMaiN MISmatch. For a minor alarm raised on a link when there is a protection domain mismatch in provisioning on two ends of the link.
FEINSUFLNK	When the FE reports that the number of active links is less than the provisioned value. The FE group state machine is in the Insufficient-Links state.

FEMM	Far End MisMatch detected.
FESTRTUP	The Far-End group state machine remains in the Start-up state. The NE does not receive one of the FE signals required to transition to the Insufficient-Links state.
INSUFBW	Insufficient Line Bandwidth (e.g. the user creates CBR cross connects exceeding the bandwidth available on the IMA group)
INSUFLNK	Insufficient Links. The number of active transmit links or receive links are less than the provisioned value. The NE group state machine is in the Insufficient-Links state.
LNKCONDISJDMN	LiNK ON DISJoint DoMaiN. A condition set on each link that contributes to a disjoint domain.
NORMAL	Normal condition exists.
PROVFAIL	Provisioning Failure for cross-connect.
T-GR-FC	Threshold violation for Group Failure Count.
T-GR-UAS-IMA	Threshold violation for Unavailable Seconds IMA Group.
T-PERU	Threshold violation for Percentage Utilization - Ingress.
T-PERUE	Threshold violation for Percentage Utilization - Egress.
TIMMIS	Timing Mismatch. When the FE transmit mode is different than the NE transmit clock.

CondTypeImaLink

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can occur on an IMA link.

CondTypeImaLink Values	Description
FERXUNUSABLE	FE reports Rx-Unusable.
FETXUNUSABLE	FE reports Tx-Unusable.
LIF	Loss of IMA Frame Failure. A LIF failure is declared after 2.5 +/- 0.5 seconds of continuous LIF defect. A LIF failure is cleared after 10+/- 0.5 seconds of no LIF defect.
LODS	Link Out of Delay Synchronization. The LODS is a link event indicating that the link is not synchronized with the other links within the IMA group. A LODS failure is declared after 2.5 +/- 0.5 seconds of continuous LODS defect. A LODS failure is cleared after 10+/- 0.5 seconds of no LODS defect.
NORMAL	Normal condition.

RFI-IMA	Remote Failure Indicator IMA. A RFI-IMA failure is declared after 2.5 +/- 0.5 seconds of continuous RDI-IMA defect. A RFI-IMA failure is cleared after 10 +/- 0.5 seconds of no RFI-IMA defect.
RXMISCONN	Receive Link Misconnected. This is reported when the IMA unit has determined that the Rx link is not connected to the same far end IMA as the other Rx links in the group. Cleared when the IMA unit determines that the link is connected to the same FE as the other links in the group.
T-IV-IMA	Threshold violation for ICP Violations.
T-OIF-IMA	Threshold violation for OIF anomalies.
T-RX-FC	Threshold violation for Receive Link Failures.
T-RX-STUFF-IMA	Threshold violation for Received Stuff Events.
T-RX-UUS-IMA	Threshold violation for Received Unusable Seconds.
T-SES-IMA	Threshold violation for Severely Errored Seconds.
T-TX-FC	Threshold violation for Transmit Link Failures.
T-TX-STUFF-IMA	Threshold violation for Transmit Stuff Events.
T-TX-UUS-IMA	Threshold violation for Transmit Unusable Seconds.
T-UAS-IMA	Threshold violation for Unavailable Seconds.
TXMISCONN	Transmit Link Misconnected. This is reported when the IMA unit has determined that the Tx link is not connected to the same far end IMA as the other Tx links in the group. Cleared when the IMA unit determines that the link is connected to the same FE as the other links in the group.

CondTypeInh

The condition types for which alarms and events are to be inhibited or allowed.

CondTypeInh Values	Description
TCA	Automatic message for threshold crossing alerts are to be inhibited or allowed.

CondTypeLink

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can occur on an Data Links.

CondTypeLink Values	Description
DBFAULT	DataBase Fault.

EOCDUPLEX	Embedded operations channel (EOC) duplex failure - both the primary and secondary EOC channels have failed.
EOCSIMPLEX	Embedded operations channel (EOC) simplex failure - either the primary or secondary EOC channel has failed.
INHEOC	Embedded Operations Channel (EOC) protection switching is inhibited.
INHTMC	Time Slot Management Channel (TMC) protection switching is inhibited.
NORMAL	Normal condition exists.
TDMPATHFAIL	TDM path failure has occurred on a path to a CRV for the IG.
TMCDUPLEX	Time slot management channel (TMC) duplex failure - both the primary and secondary TMC channels have failed.
TMCSIMPLEX	Time slot management channel (TMC) simplex failure - either the primary or secondary TMC channel has failed.

CondTypeLog

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can cause events to occur on Logs.

CondTypeLog Values	Description
LOGBUFR90-ALM	Alarm log buffer 90% full.
LOGBUFR90-DBCHG	Database change log buffer 90% full.
LOGBUFR90-EVT	Event log buffer 90% full.
LOGBUFR90-TCA	TCA log buffer 90% full.
LOGBUFROVFL-ALM	Alarm log buffer overflow.
LOGBUFROVFL-DBCHG	Database change log buffer overflow.
LOGBUFROVFL-EVT	Event log buffer overflow.
LOGBUFROVFL-TCA	TCA log buffer overflow.
LOGINITALM	Alarm log has been initialized
LOGINITDBCHG	Database Change Log has been initialized
LOGINITEVT	Event log has been initialized
LOGINITTCA	TCA log has been initialized

CondTypeLSwitch

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can occur on an LSwitch.

CondTypeLSwitch Values	Description
LSWCRS	LSwitch Cross-Connects. The network-facing LSwitch port has no underlying Sonet cross-connects associated with it (through a VTI).
LSWFAIL	LSwitch Failure. The LSwitch has a failure with its underlying Sonet cross-connects. This could be due to a lack of bandwidth, or some other failure creating the Sonet cross-connects.
LSWVTI	LSwitch VTI. The network-facing LSwitch port has no VTI mapped to it.
NORMAL	Normal condition.
XLANMM	XLAN Mismatch. The network-facing LSwitch port has different XLANs are cross connected together (through a VTI).
XLANOPEN	XLAN Open. This only applies for an XLAN topology of EPR. Only the LSwitches at the end of the linear chain that is created from a result of the break in the ring will report this.

CondTypeMemEvt

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can cause events to occur on Memory.

CondTypeMemEvt Values	Description
DBMEMTRF	Database/memory transfer failed.

CondTypeNtwk

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can occur on a network. These alarms are only reported by the Calix Management System (CMS).

CondTypeNtwk Values	Description
DUPSID	Duplicate SID. Two nodes have the same SID. This prevents the CMS from being able to route incoming TL1 commands to the appropriate destination.
NTWKLOSTCOMM	Network Lost Communication. The TCP/IP

connection to a particular C7 network was lost.

CondTypeOcN

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can occur on an OCn port.

CondTypeOcN Values	Description
ACT	ACTive. The entity is the active receiver of an active - standby protection pair.
AIS-L	SONET Alarm Indication Signal - line.
APSB	Automatic Protection Switching Byte failure.
APSBB	Automatic Protection Switching Byte Babble.
APSCM	Automatic Protection Switching Channel Mismatch.
APSMM	Automatic Protection Switching Mode Mismatch.
AUDITMM	Audit MisMatch failure for cross-connect.
COMMSLINKDOWN	The internal C7 communications link is down.
DNR	Do Not Revert
FEDMNMIS	Far End DoMaiN MISmatch. For a minor alarm raised on a link when there is a protection domain mismatch in provisioning on two ends of the link.
FEFFPMIS	Far End FFP MISmatch. A minor alarm raised on a link when there is a protection scheme mismatch in provisioning on two ends of the link.
FEMM	Far End MisMatch detected.
FEPRLF	Far End Protection Line Failure. (For automatic protection switching)
FRCDWKSWBK	FoRCeD WorKing SWitched to BacK to working.
FRCDWKSWPR	FoRCeD WorKing SWitched to PRotection.
LNKCONDISJDMN	LiNK ON DISJoint DoMaiN. A condition set on each link that contributes to a disjoint domain.
LOCKOUTOFPR	LOCKed OUT OF PProtection unit.
LOCKOUTOFWK	LOCKed OUT OF WorKing unit.
LOF	Loss Of Frame
LOS	Loss of signal.
LPBKFACTILITY	Loop back, Facility.
LPBKTERMINAL	Loop back, Terminal.
MANWKSWBK	MANual WorKing SWitch BacK to working.
MANWKSWPR	MANual WorKing SWitch to PProtection.
NORMAL	Normal condition exists.
PROVFAIL	Provisioning Failure for cross-connect.
PS	Protection switching event into the specified AID.
RFI-L	SONET Remote Failure Indication - line.

SCMMA	State change due to manual maintenance action.
SDBER	Signal Degraded Bit Error Rate
SFBER	Signal Failure Bit Error Rate
STBY	STandBY. The entity is the standby receiver of an active - standby protection pair.
T-CVL	Threshold violation for coding violations count - line.
T-CVS	Threshold violation for coding violations count - section.
T-ESL	Threshold violation for errored seconds count - line.
T-ESS	Threshold violation for errored seconds count - section.
T-FCL	Threshold violation for Failure Count - Line
T-PSCL	Threshold violation for Protection Switching Count - Line
T-PSDL	Threshold violation for Protection Switching Duration - Line
T-SEFS-S	Threshold violation for severely errored framing second count - section
T-SESL	Threshold violation for severely error seconds count - line.
T-SESS	Threshold violation for severely errored seconds coount - section.
T-UASL	Threshold violation for unavailable seconds count - line.
WKSWBK	Working SWitched Back to working.
WKSWPR	Working SWitched to PProtection unit.
WTR	Waiting To Restore

CondTypeOnt

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can occur on an Optical Networking Termination.

CondTypeOnt Values	Description
BADPID	ONT Password Mismatch.
BATMISS	Battery backup is enabled but not present.
BATTERY	Battery failure.
BE	Block error, upstream BIP8 error.
CPE	Cell Phase Error.
EQPT	Critical alarm caused by equipment failure.
EQPTCOMM	Equipment communications failure.
LCD	Loss of Cell Delineation.
LOA	Loss of ACK.

LOS	Loss of Signal.
LWBATVG	Low battery voltage.
MEA	Mismatch of equipment provisioning.
MEM	Message Error Message, unknown PLOAM message received from ONT.
NORMAL	Normal state.
OAML	Loss of PLOAM cells.
ONTDF	Deactivate Failure.
ONTDLFAIL	ONT software download failed.
OPENDR	Door or box open.
PEE	Physical Equipment Error.
POWER	Commercial power failure.
PROVFAIL	Provisioning Failure.
REI	Remote Error Indication, or downstream BIP8 error.
RFVIDRETLEOL	RF Video Return Laser End of Life
RINH	Receive Alarm Inhibit, ONT's dying grasp that it has departed due to loss of power without battery backup.
SDBER	Signal Degrade.
STF	ONT has failed autonomous self-test.
SUF	Startup Failure Indication.
SWDLINPROG	Software Download in Progress.
T-BES	Threshold violation for BIP8 Errored Seconds.
T-BIP8	Threshold violation for BIP8 errors.
T-MES	Threshold violation for Missing Errored Seconds.
T-MISS	Threshold violation for Missing Burst Errors.
T-SES	Threshold violation for BIP8 Severely Errored Seconds.
T-UAS	Threshold violation for BIP8 Unavailable Seconds.
VRPNOTSUPPORTED	Video Return Path Not Supported.

CondTypePon

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can occur on a PON Port.

CondTypePon Values	Description
NORMAL	Normal state.
SFPMISSING	SFP Missing.
SFPNOTSUPPORTED	SFP is present, but not Calix-compatible.
TF	Transmission Failure.

CondTypePp

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can occur on a pseudo-port.

CondTypePp Values	Description
APPCRSM	Application Cross-Connect Mismatch. A mismatch was detected between an application (a cross-connect that has an Application Id) and the actual cross-connect database.
AUDITMM	Audit MisMatch failure for cross-connect.
FEMM	Far End MisMatch detected.
NORMAL	Normal condition exists.
PPLMM	Path Protection Label Mismatch. One of the following three conditions was detected: A cross-connect has a) an incorrect PPL, b) a PPL with no control VC, or c) an incorrect mate PPL.
PROVFAIL	Provisioning Failure for cross-connect.
SCMMA	State change due to manual maintenance action.
VIDCRSM	Video Cross-Connect Mismatch. The Video application on the IRC detected a cross-connect is missing from the RAP cross-connect database.
VIDPARMM	Video Parameter Mismatch. The Video application on the IRC detected a cross-connect in the RAP cross-connect database has differing parameters.
VIDVCMM	A video VC was not properly acknowledged by the optical line unit performing video switching.

CondTypePpl

These condition types indicate the possible trouble condition, irregularities, errors, off-normal condition which can occur on a Packet Protection Label.

CondTypePpl Values	Description
ACT	ACTive. The entity is the active member of an active - standby protection pair.
DNR	Do Not Revert
FRCDWKSWBK	FoRCeD WorKing SWitched to BaCK to working.
FRCDWKSWP	FoRCeD WorKing SWitched to PRotection.
LOCKOUTOFPR	LOCKed OUT OF PRotection unit.
LOCKOUTOFWK	LOCKed OUT OF WorKing unit.
LOS	Loss of signal.
LOSPPL	Loss of Signal Path Protection Label. This condition indicates a failure of the path protection. The AID specified in the alarm does not necessarily

	indicate the actual source of the problem, rather where the problem was detected. Use of ATM OAM diagnostics commands (INJ-LPBK-{VC,VP} may be necessary to isolate the failure.
MANWKSWBK	MANual WorKing SWitch Back to working.
MANWKSWPB	MANual WorKing SWitch to PProtection.
NORMAL	Normal condition.
STBY	STandBY. The entity is the standby member of an active - standby protection pair.
WKSWBK	Working SWitched Back to working.
WKSWPB	Working SWitched to PProtection unit.
WTR	Waiting To Restore

CondTypePPPoE

Conditions associated with PPPoE

CondTypePPPoE Values	Description
DUPPPPPOEHOST	Duplicate PPPoE Host.
PPPOEHOSTTBLFULL	PPPoE Host Table is full - a limit of 5000 records is enforced.

CondTypeRfVid

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can occur on an Rf-Video Port.

CondTypeRfVid Values	Description
LOS	Loss of signal.

CondTypeSecu

The condition types indicates the possible trouble condition, irregularities, errors which can causes events to occur on a security entity.

CondTypeSecu Values	Description
CANC	A user's session was cancelled.
CHAP	CHange Access Privileges. Access privileges for a management port were changed.
LOGBUFR90	Security log buffer 90% full.

LOGBUFROVFL	Log buffer overflow for security log.
LOGIN	A user logged in.
LOGINFAIL	A user's login attempt failed.
LOGOUT	A user logged out.
MGMTIF	Management Interface IP Address was modified.
NORADAMP	This indicates that both provisioned RADIUS client AMPs are not functioning.
NORADSERV	This indicates that both provisioned RADIUS servers are unresponsive.
NORMAL	Normal condition exists.
PIDEXP	A user's password expired.
RADAMPFAIL	This indicates that the primary RADIUS client AMP is not functioning.
RADSERVFAIL	This indicates that the primary RADIUS server is unresponsive.
SECUDENY	A user was denied access due to insufficient privileges reasons.
SSHFAIL	This indicates a failure of the designated AMP's secure shell application to start. It must be cleared by resetting that AMP.
SYSSECUPROV	System security data has been modified via ED-SYS-SECU.
TMPLPROV	A security template was provisioned.
USERPROV	A user was provisioned.

CondTypeShelf

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can occur on a shelf.

CondTypeShelf Values	Description
AMAMPABSENT	Admin master AMP not present - A-to-Z may not work
COLDRESETOFDB	A cold reset of database include the wiping out of all data in the current database and resetting all processors in the shelf.
DCAFAIL	DCA Failure.
DCBFAIL	DCB Failure.
DISJDMN	DISJoint DoMaiN. For a minor alarm, raised on a shelf which is part of a domain that is disjoint.
DUPAMPROV	DUPLICATE Admin Master is PROVisioned. Indicates that more than one Admin Master is provisioned in the network.
DUPSHLFID	If two networks are merged and if there are shelves on both the networks with the same shelf id, this

	alarm is raised against the shelf that has the duplicate shelf id. The alarm will however be raised by the shelf where the link was connected.
INHUPGRADE	Upgrade of standby is inhibited.
INVALIDBPID	Invalid BackPlane ID.
NORMAL	Normal condition.
OLTPROVNOAMP	OLT provisioned under shelf with no AMP present.
PROVCAPOVF	PROVisioning CAPacity OVerFlow - This alarm is raised when rap flash usage exceeds the usable limit of 48M
PROVCAPTHR	PROVisioning CAPacity THreshold exceeded - This alarm is raised when rap flash usage exceeds the threshold limit of 44M
PWREXCEED	Power limit exceeded.
REMOTEALARM	Remote Alarm.
SHELFLOSTCOMM	Shelf Lost Communication.
SWFTDWN	Software download in progress.
SWOUTOFREV	Software out of rev.
SYSBOOT	System reboot.

CondTypeSipIg

No Comment Defined.

CondTypeSipIg Values	Description
CALLPROCLU	No Comment Defined.
SIPINVCFG	No Comment Defined.

CondTypeSipVcg

No Comment Defined.

CondTypeSipVcg Values	Description
CALLPROCLU	No Comment Defined.

CondTypeSts

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can occur on an STS path.

CondTypeSts Values	Description
ACT	ACTive. The entity is the active receiver of an active - standby protection pair.
ACTLPBK	Loop back in active position.
AIS-P	SONET alarm indication signal detected - path.
APPCRSM	Application Cross-Connect Mismatch. A mismatch was detected between an application (a cross-connect that has an Application Id) and the actual cross-connect database.
ATMMONLOS	ATM diagnostic monitoring loss of signal. Failure of diagnostic ATM OAM loopback ping between two line units.
AUDITMM	Audit MisMatch failure for cross-connect.
CRPRDOWN	CRPR DOWN Alarm. This alarm is raised when the near-end stops receiving protocol messages for a period of time especially when there is no EQPT or SONET level alarm is detected.
DNR	Do Not Revert
ERFIC-P	Enhanced Remote Failure Indication Connectivity - Path
ERFIP-P	Enhanced Remote Failure Indication Payload - Path
ERFIS-P	Enhanced Remote Failure Indication Server - Path
FEMM	Far End MisMatch detected.
FRCDWKSWBK	FoRCeD WorKing SWitched to BacK to working.
FRCDWKSWPR	FoRCeD WorKing SWitched to PProtection.
GFRCELLLOSS	Guaranteed Traffic Cell Loss.
INVPIVCI	Invalid VPI VCI on internal link.
LCD-P	Loss of Cell Deliniation - Path
LOCKOUTOFPR	LOCKed OUT OF PProtection unit.
LOCKOUTOFWK	LOCKed OUT OF WorKing unit.
LOP-P	SONET loss of pointer STS-path.
MANWKSWBK	MANual WorKing SWitch BacK to working.
MANWKSWPR	MANual WorKing SWitch to PProtection.
NORMAL	Normal condition exists.
PFI-P	Payload Failure Indication - Path
PLM-P	Payload Label Mismatch - Path.
PPLMM	Path Protection Label Mismatch. One of the following conditions was detected: A cross-connect has a) an incorrect PPL, b) a PPL with no control VC, or c) an incorrect mate PPL. A HBH cross connect has no active protection.
PROVFAIL	Provisioning Failure for cross-connect.
RFI-P	SONET remote failure indication - path.
SCMMA	State change due to manual maintenance action.
SDBER-P	Signal Degraded Bit Error Rate - Path. This condition indicates that the Signal Degraded Bit

	Error Rate threshold has been exceeded for the path.
SFBER-P	Signal Failure Bit Error Rate - Path. This condition indicates that the Signal Failure Bit Error Rate threshold has been exceeded for the path.
STBY	STandBY. The entity is the standby receiver of an active - standby protection pair.
TIM-P	SONET trace identifier message defect - path.
UNEQ-P	UNEQuipped - Path.
VIDCRSMM	Video Cross-Connect Mismatch. The Video application on the IRC detected a cross-connect is missing from the RAP cross-connect database.
VIDPARMNM	Video Parameter Mismatch. The Video application on the IRC detected a cross-connect in the RAP cross-connect database has differing parameters.
VIDVCMM	A video VC was not properly acknowledged by the optical line unit performing video switching.
WKSWBK	Working SWitched BaCK to working.
WKSWPR	Working SWitched to PRotection unit.
WTR	Waiting To Restore

CondTypeStsAlm

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can cause an alarm to occur on an STS path.

CondTypeStsAlm Values	Description
AIS-P	SONET alarm indication signal detected - path.
APPCRSM	Application Cross-Connect Mismatch. A mismatch was detected between an application (a cross-connect that has an Application Id) and the actual cross-connect database.
ATMMONLOS	ATM diagnostic monitoring loss of signal. Failure of diagnostic ATM OAM loopback ping between two line units.
AUDITMM	Audit MisMatch failure for cross-connect.
CRPRDOWN	CRPR DOWN Alarm. This alarm is raised when the near-end stops receiving protocol messages for a period of time especially when there is no EQPT or SONET level alarm is detected.
ERFIC-P	Enhanced Remote Failure Indication Connectivity - Path
ERFIP-P	Enhanced Remote Failure Indication Payload - Path
ERFIS-P	Enhanced Remote Failure Indication Server - Path
FEMM	Far End MisMatch detected.
GFRCELLLOSS	Guaranteed Traffic Cell Loss.

INVPIVCI	Invalid VPI VCI on internal link.
LCD-P	Loss of Cell Deliniation - Path
LOP-P	SONET loss of pointer STS-path.
PFI-P	Payload Failure Indication - Path
PLM-P	Payload Label Mismatch - Path.
PPLMM	Path Protection Label Mismatch. One of the following three conditions was detected: A cross-connect has a) an incorrect PPL, b) a PPL with no control VC, or c) an incorrect mate PPL.
PROVFAIL	Provisioning Failure for cross-connect.
RFI-P	SONET remote failure indication - path.
SDBER-P	Signal Degraded Bit Error Rate - Path. This condition indicates that the Signal Degraded Bit Error Rate threshold has been exceeded for the path.
SFBER-P	Signal Failure Bit Error Rate - Path. This condition indicates that the Signal Failure Bit Error Rate threshold has been exceeded for the path.
TIM-P	SONET trace identifier message defect - path.
UNEQ-P	UNEQuipped - Path.
VIDCRSMM	Video Cross-Connect Mismatch. The Video application on the IRC detected a cross-connect is missing from the RAP cross-connect database.
VIDPARMM	Video Parameter Mismatch. The Video application on the IRC detected a cross-connect in the RAP cross-connect database has differing parameters.
VIDVCMM	A video VC was not properly acknowledged by the optical line unit performing video switching.

CondTypeStsEvt

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can cause an event to occur on an STS path.

CondTypeStsEvt Values	Description
AIS-P	SONET alarm indication signal detected - path.
AUDITMM	Audit MisMatch failure for cross-connect.
ERFIC-P	Enhanced Remote Failure Indication Connectivity - Path
ERFIP-P	Enhanced Remote Failure Indication Payload - Path
ERFIS-P	Enhanced Remote Failure Indication Server - Path
FEMM	Far End MisMatch detected.
FRCDWKSWBK	FoRCeD WorKing SWitched to BaCK to working.
FRCDWKSWPR	FoRCeD WorKing SWitched to PRotection.
LCD-P	Loss of Cell Deliniation - Path

LOCKOUTOFPR	LOCKed OUT OF Protection unit.
LOCKOUTOFWK	LOCKed OUT OF WorKing unit.
LOP-P	SONET loss of pointer STS path.
LPIBKCRS	Loop back, cross-connect.
LPIBKLINE	Loop back, line.
MANWKSWBK	MANual WorKing SWitch Back to working.
MANWKSWPB	MANual WorKing SWitch to PProtection.
PFI-P	Payload Failure Indication - Path
PLM-P	Payload Label Mismatch - Path.
PROVFAIL	Provisioning Failure for cross-connect.
RFI-P	SONET remote failure indication - path.
SDBER-P	Signal Degraded Bit Error Rate - Path. This condition indicates that the Signal Degraded Bit Error Rate threshold has been exceeded for the path.
SFBER-P	Signal Failure Bit Error Rate - Path. This condition indicates that the Signal Failure Bit Error Rate threshold has been exceeded for the path.
T-CVP	Threshold violation for coding violations count - path.
T-ESP	Threshold violation for errored seconds count - path.
T-FCP	Threshold violation for Failure Count - Path
T-PERUE	Threshold violation for Percentage Utilization - Egress.
T-SESP	Threshold violation for severely error seconds count - path.
T-UASP	Threshold violation for unavailable seconds count - path.
TIM-P	SONET trace identifier message defect - path.
UNEQ-P	UNEQuipped - Path.
WKSWBK	Working SWitched Back to working.
WKSWPB	Working SWitched to PProtection unit.

CondTypeT0

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can occur on an T0 port.

CondTypeT0 Values	Description
DBFAULT	Database Fault.
DDSLBDS0DROP	DDS DS0 Drop Loopback
DDSLBDS0LINE	DDS DS0 Line Loopback
DDSLBLATCHCSU	DDS CSU Latch Loopback
DDSLBLATCHOCU	DDS OCU Latch Loopback

DDSLBNONLATCHCSU	DDS CSU Non Latch Loopback
DDSLBNONLATCHOCU	DDS OCU Non Latch Loopback
DDSLOOPOPEN	DDS Loop Open.
DDSNOSYNC	DDS Loop Not Synchronized
DDSRLOS	DDS Loop RLOS
NORMAL	Normal condition exists.
SCMMA	State change due to manual maintenance action.
TSA	Test session active.

CondTypeT0Alm

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can cause alarms to occur on an T0 port.

CondTypeT0Alm Values	Description
DBFAULT	Database Fault.
DDSNOSYNC	DDS Loop Not Synchronized

CondTypeT0Evt

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can cause event to occur on an T0 port.

CondTypeT0Evt Values	Description
DBFAULT	Database Fault.
DDSLBDS0DROP	DDS DS0 Drop Loopback
DDSLBDS0LINE	DDS DS0 Line Loopback
DDSLBLATCHCSU	DDS CSU Latch Loopback
DDSLBLATCHOCU	DDS OCU Latch Loopback
DDSLBNONLATCHCSU	DDS CSU Non Latch Loopback
DDSLBNONLATCHOCU	DDS OCU Non Latch Loopback
DDSLOOPOPEN	DDS Loop Open.
DDSNOSYNC	DDS Loop Not Synchronized
DDSRLOS	DDS Loop RLOS

CondTypeT1

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can occur on an T1 port.

CondTypeT1 Values	Description
ACTLPBK	Active Loopback. A loopback is active on the port.
AIS	Alarm indication signal detected.
ATMMONLOS	ATM diagnostic monitoring loss of signal. Failure of diagnostic ATM OAM loopback ping between two line units.
AUDITMM	Audit MisMatch failure for cross-connect.
BAIS	ONT Circuit Emulation Failure, Port Back AIS.
BPV	Bipolar violation.
COMMSLINKDOWN	The internal C7 communications link is down.
CRC-6	Cyclic redundancy check error.
DBFAULT	DataBase Fault.
EXZ	Excessive zeros.
FE	Frame bit error.
FEBE	Far end block error.
FEDMNMIS	Far End DoMaiN MISmatch. For a minor alarm raised on a link when there is a protection domain mismatch in provisioning on two ends of the link.
FEMM	Far End MisMatch detected.
GR8DL	Datalink not receiving data on A/C links
GR8LNK	Alarm on GR-8 link A,B,C,D
INFO0	ONT Circuit Emulation Failure, Port INFO0 Reception.
LCD	Loss of cell delineation.
LNKCONDISJDMN	LiNK ON DISJoint DoMaiN. A condition set on each link that contributes to a disjoint domain.
LOF	Loss of frame.
LOF-M	Loss of Frame on the matrix. Applicable only when there is T1 cross-connect present. It usually indicates the T1 port received corrupted bit stream from the endpoint it is cross-connected to.
LOS	Loss of signal.
LOS-M	Loss of Signal on the matrix. Applicable only when there is T1 cross-connect present. It usually indicates that the T1 port did not receive bit stream from its cross-connected endpoint for at least 0.5 second.
LPBKFACTORY	Loop back, Facility
LPBKPAYLOAD	Loop back, Payload
LPBKTERMINAL	Loop back, Terminal.
NORMAL	Normal condition exists.
OOF	ONT Circuit Emulation Failure, Port Out of Frame.
PROVFAIL	Provisioning Failure for cross-connect.
RAI	Remote alarm indication.
REC	ONT Circuit Emulation Failure, Receive Alarm.
RFI	Remote Failure Indication. A failure indication has

	been received from the remote end. This is the non-soaked version of the RAI alarm.
RINH	Receive Alarm Inhibit.
SCMMA	State change due to manual maintenance action.
SWITCHLPBK	Switch initiated loopback (GR-8)
T-CSS-P	Threshold violation for control slip seconds count - path.
T-CVL	Threshold violation for coding violations count - line.
T-CVP	Threshold violation for coding violations count - path.
T-ESL	Threshold violation for errored seconds count - line.
T-ESP	Threshold violation for errored seconds count - path.
T-PERU	Threshold violation for Percentage Utilization - Ingress.
T-PERUE	Threshold violation for Percentage Utilization - Egress.
T-SAS-P	Threshold violation for severely errored framing/alarm indication signal second count.
T-SEFS	Threshold violation for severely errored framing second count.
T-SEFS-P	Threshold violation for severely errored framing second count - path.
T-SESL	Threshold violation for severely error seconds count - line.
T-SESP	Threshold violation for severely error seconds count - path.
T-UASP	Threshold violation for unavailable seconds count - path.
TF	Transmission Failure.
TSA	Test session active.

CondTypeT3

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can causes an event to occur on an T3 port.

CondTypeT3 Values	Description
ACTLPBK	Active Loopback. A loopback is active on the port.
AIS	Alarm indication signal detected.
AIS-M	Alarm indication signal detected on matrix.
AISS-P	Alarm indication signal detected, path.
AISS-PE	Alarm indication signal detected, egress path.
ATMMONLOS	ATM diagnostic monitoring loss of signal. Failure

	of diagnostic ATM OAM loopback ping between two line units.
AUDITMM	Audit MisMatch failure for cross-connect.
BE	Block error - SONET.
BPV	Bipolar violation.
COMMSLINKDOWN	The internal C7 communications link is down.
EXZ	Excessive zeros.
FE	Frame bit error.
FEBE	Far end block error.
FEDMNMIS	Far End Domain Mismatch. For a minor alarm raised on a link when there is a protection domain mismatch in provisioning on two ends of the link.
FEFFPMIS	Far End FFP Mismatch. A minor alarm raised on a link when there is a protection scheme mismatch in provisioning on two ends of the link.
FEMM	Far End MisMatch detected.
LCD	Loss of Cell Deliniation
LNKCONDISJDMN	Link on Disjoint Domain. A condition set on each link that contributes to a disjoint domain.
LOF	Loss of frame.
LOF-M	Loss of frame on matrix side.
LOFPLCP	Loss of Frame - PLCP.
LOS	Loss of signal.
LOS-M	Loss of signal on matrix side.
LPBKFACTORY	Loop back, Facility
LPBKPAYLOAD	Loop back, Payload
LPBKTERMINAL	Loop back, Terminal
NORMAL	Normal condition
PROVFAIL	Provisioning Failure for cross-connect.
RAI	Remote alarm indication.
RAI-M	Remote alarm indication on matrix side.
RFI	Remote Failure Indication. A failure indication has been received from the remote end. This is the non-soaked version of the RAI alarm.
RFI-M	Remote Failure Indication on matrix side. A failure indication has been received from the remote end. This is the non-soaked version of the RAI-M alarm.
RFIPLCP	Remote failure indication - PLCP.
SCMMA	State change due to manual maintenance action.
T-CVCP-P	Threshold violation for coding violation count - path, DS3 CP-bit parity.
T-CVCP-PE	Threshold violation for coding violation count - egress path, DS3 CP-bit parity.
T-CVL	Threshold crossing - Coding Violation count - Line.
T-CVP-P	Threshold violation for coding violation count -

	path, DS3 P-bit parity.
T-CVP-PE	Threshold violation for coding violation count - egress path, DS3 P-bit parity.
T-ESCP-P	Threshold violation for errored second count - path, DS3 CP-bit parity.
T-ESCP-PE	Threshold violation for errored second count - egress path, DS3 CP-bit parity.
T-ESL	Threshold violation for errored seconds count - line.
T-ESP	Threshold violation for errored second count, path.
T-ESP-P	Threshold violation for errored second count, path, DS3 P-bit parity.
T-ESP-PE	Threshold violation for errored second count - egress path, DS3 P-bit parity.
T-FC-PE	Fail Count, Path Egress
T-FCC-P	Fail Count, C bit Parity Path
T-FCC-PE	Fail Count, C bit Parity Path Egress
T-LOSS-L	Threshold violation for LOS second - line.
T-PERU	Threshold violation for Percentage Utilization - Ingress.
T-PERUE	Threshold violation for Percentage Utilization - Egress.
T-SAS-P	Threshold violation for severely errored framing/alarm indication signal second count.
T-SAS-PE	Threshold violation for severely errored framing/alarm indication signal second count - egress.
T-SASCP-P	Threshold violation for severely errored framing/alarm indication signal second count - path, DS3 CP-bit parity.
T-SASCP-PE	Threshold violation for severely errored framing/alarm indication signal second count - egress path, DS3 CP-bit parity.
T-SES-P	Threshold violation for severely error seconds count - path.
T-SESCP-P	Threshold violation for severely errored second count - path, DS3 CP-bit parity.
T-SESCP-PE	Threshold violation for severely errored second count - egress path, DS3 CP-bit parity.
T-SESL	Threshold violation for severely error seconds count - line.
T-SESP-P	Threshold violation for severely errored second count - path, DS3 P-bit parity.
T-SESP-PE	Threshold violation for severely errored second count - egress path, DS3 P-bit parity.
T-UASCP-P	Threshold violation for unavailable second count - path, DS3 CP-bit parity.
T-UASCP-PE	Threshold violation for unavailable second count -

	egress path, DS3 CP-bit parity.
T-UASP	Threshold violation for unavailable seconds count - path.
T-UASP-P	Threshold violation for unavailable seconds count DS3 P-bit parity - path.
T-UASP-PE	Threshold violation for unavailable second count - egress path, DS3 P-bit parity.

CondTypeTmg

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can occur on Timing within the system.

CondTypeTmg Values	Description
CCBPV	Composite clock bipolar violation density error.
DD1FRCDSWTOINT	FoRCeD SWitch TO INTernal timing source - Derived DS1.
DD1FRCDSWTOPRI	FoRCeD SWitch TO PRImary timing source - Derived DS1.
DD1FRCDSWTOSEC	FoRCeD SWitch TO SEConary timing source - Derived DS1.
DD1MANSWTOINT	Manual SWitch TO INTernal timing source - Derived DS1.
DD1MANSWTOPRI	MANual SWitch TO PRImary timing source - Derived DS1.
DD1MANSWTOSEC	MANual SWitch TO SEConary timing source - Derived DS1.
DD1SWTOINT	SWitch TO INTernal timing source - Derived DS1.
DD1SWTOPRI	SWitch TO PRImary timing source - Derived DS1.
DD1SWTOSEC	SWitch TO SEConary timing source - Derived DS1.
DD1SYNCOOS	Loss of timing on all synchronization links - Derived DS1.
DD1SYNCPRI	Loss of timing on primary synchronization link - Derived DS1.
DD1SYNCSEC	Loss of timing on secondary synchronization link - Derived DS1.
FRCDSWTOINT	FoRCeD SWitch TO INTernal timing source
FRCDSWTOPRI	FoRCeD SWitch TO PRImary timing source
FRCDSWTORAP	FoRCeD SWitch TO RAP timing source
FRCDSWTOSEC	FoRCeD SWitch TO SEConary timing source
FRCDSWTOSYS	FoRCeD SWitch TO SYStem timing source
MANSWTOINT	Manual SWitch TO INTernal timing source
MANSWTOPRI	MANual SWitch TO PRImary timing source
MANSWTORAP	MANual SWitch TO RAP timing source

MANSWTOSEC	MANual SWitch TO SECondary timing source
MANSWTOSYS	MANual SWitch TO SYStem timing source
NORMAL	Normal condition.
SWTOINT	SWitch TO INTernal timing source
SWTOPRI	SWitch TO PRImary timing source
SWTORAP	SWitch TO RAP timing source
SWTOSEC	SWitch TO SECondary timing source
SWTOSYS	SWitch TO SYStem timing source
SYNCOOS	Loss of timing on all synchronization links.
SYNCPRI	Loss of timing on primary synchronization link.
SYNCSEC	Loss of timing on secondary synchronization link.
SYNCSTATCHG	Synchronization Status Change - used to signify a change in the Synchronization Status message of a SONET NE.

CondTypeUser

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can occur on an USER.

CondTypeUser Values	Description
INHMSG	Automatic messages inhibited (excluding performance monitoring threshold).
INHPM	Performance monitoring messages inhibited.

CondTypeVb

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can occur on an Virtual Bridge.

CondTypeVb Values	Description
APPCRSM	No Comment Defined.
AUDITMM	No Comment Defined.
DATAFAULT	No Comment Defined.
PROVFAIL	No Comment Defined.
RSTPRECVDSTPFRAME	RSTP: An STP Frame has been received which means, lower RSTP.

CondTypeVcg

The condition types indicates the possible trouble condition, irregularities, errors, off-normal

condition which can occur on an Voice Concentration Group.

CondTypeVcg Values	Description
CALLPROCLU	Call processing disabled because either no transport (VDS1 or VSP) is assigned to the IG, or the line unit is not functioning.
DBFAULT	Database Fault.
NORMAL	Normal condition.
TRAFTHR	Traffic Threshold Crossing. VCG active calls exceeded the threshold set by the CAPALMTHR parameter.

CondTypeVcVpEvt

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can cause an event to occur on a virtual path or circuit.

CondTypeVcVpEvt Values	Description
LCC	Loss of Continuity - Cleared.
LOC	Loss Of Continuity.

CondTypeVidSub

Condition on a Video Subscriber.

CondTypeVidSub Values	Description
VIDSUBNOBW	No Bandwidth available on Video Subscriber. This occurs when a STB requests more broadcast video bandwidth than has been provisioned for that subscriber.

CondTypeVodFlow

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which causes an event to occur on a VOD Flow.

CondTypeVodFlow Values	Description
VODFLOWFAIL	A VOD flow was aborted.

CondTypeVr

The condition types indicates the possible trouble condition, irregularities, errors, off-normal condition which can occur on an Virtual Router.

CondTypeVr Values	Description
APPCRSMM	No Comment Defined.
AUDITMM	No Comment Defined.
DATAFAULT	No Comment Defined.
DHCPIINTFADDR	DHCP: the new address is a network address.
DHCPIPASNSTATICHOST	DHCP: the MAC address of the new entry is already assigned to the static host.
DHCPMACASNSTATICHOST	DHCP: the IP address of the new entry is already assigned to static host.
DRAASSGIPDUP	DHCP: a duplicate IP address is assigned by a (misconfigured) DHCP server.
PROVFAIL	No Comment Defined.

CondTypeVrp

Video Return Path Conditions.

CondTypeVrp Values	Description
FREQMISMATCH	Frequency Mismatch.

Configuration

The configuration of the circuit under test.

Configuration Values	Description
2WA	Two wire A.
2WB	Two wire B.
4WAB	Four wire A/B.

ConfigurationFP

The configuration of the circuit under test via the front panel.

ConfigurationFP Values	Description
2WA	Two wire A.
4WAB	Four wire A/B.

ConnectionStatus

This indicates the state of the cross-connect.

ConnectionStatus Values	Description
APPCRSM	Application Cross-Connect Mismatch. This cross-connect was created by an application, identified by an Application Id in the traffic profile. The application has detected that this cross-connect exists in the RAP database but not in the application's database.
AUDITE	The provisioning of the connection was rejected by an inter-shelf audit.
AUDITMM	AUDIT MisMatch. The audit within the shelf found an inconsistency in the cross connection.
COMMFAIL	Communications Failure. A cmmunications failure occurred with the line unit while establishing the cross-connect.
EQPTE	The provisioning of the connection was rejected by a line unit.
FEMM	Far End MisMatch. The inter-shelf audit found an inconsistency in the cross connection.
NORMAL	NORMAL. The connection is normal.
NRDY	The connection is not ready to carry traffic.
PPLMM	Path Protection Label Mismatch. One of the following three conditions was detected: The cross-connect has a) an incorrect PPL, b) a PPL with no control VC, or c) an incorrect mate PPL.
PROVFAIL	PROVisioning FAILure. The line unit did not accept the cross connection.
RDY	The connection is ready to carry traffic.
VIDCRSMM	Video Cross-Connect Mismatch. The Video application on the IRC detected that this cross-connect that exists in its database but does not exist in the RAP database.
VIDPARMM	Video Parameter Mismatch. The Video application on the IRC detected that this cross-connect has differing parameters between its database and the RAP database.

ConnectionType

The type of cross connection. This can be 2 way (bi-directional) or 1 way (uni-directional) cross connect.

ConnectionType Values	Description
1WAY	Uni-directional cross connect.
2WAY	Bi-directional cross connect.

ConnectionType2

The type of cross connection (2). This can only be 2 way (bi-directional).

ConnectionType2 Values	Description
2WAY	Bi-directional cross connect.

ConnectionType3

The type of cross connection. This can be 2 way (bi-directional) or 1 way (uni-directional) cross connect.

ConnectionType3 Values	Description
1WAY	Uni-directional cross connect.
1WAYX	Uni-directional cross connect extra traffic on protection path only.
2WAY	Bi-directional cross connect.
2WAYX	Bi-directional cross connect extra traffic on the protection path only.

ConnectSignif

This indicate the significance of the connect. If this part of a large cross connect or is the full definition of the cross connect.

ConnectSignif Values	Description
INTERM	Intermediate - this defines the just the intermediate section of a cross-connect with the endpoints listed.
LOCAL	Local - this defines the full cross connect with the endpoints listed.
STOS	Shelf to shelf - this indicates that the endpoints

	specified are part of a large cross connect and this is only a segment of another cross connect.
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ContPolarity

The polarity of the contact commands. This indicates whether the OPR-EXT-CONT command opens or closes the contact. For example, OPRISOPEN results in OPR-EXT opening the contacts.

ContPolarity Values	Description
OPRISCLOSED	OPeRated IS CLOSED. The OPR-EXT-CONT closes the control.
OPRISOPEN	OPeRated IS OPEN. The OPR-EXT-CONT opens the control.

ControlState

The control state of the external control.

ControlState Values	Description
NA	Not applicable.
OPER	Operated.
RLS	Released.

ContType

The condition type which is to be associated with a specific external control.

ContType Values	Description
AIRCOND	Air conditioning.
ENGINE	Engine.
FAN	Fan.
GEN	Generator.
HEAT	Heat.
LIGHT	Light.
MISC	Miscellaneous.
SPKLR	Sprinkler.

CpuType

CPU type of a C7 line unit.

CpuType Values	Description
GAPAPP	GAP Application Host
GAPLU	GAP Lu Host
PPC	Power PC

CrsFilter

This parameter provides a mechanism for filtering the data being retrieved on cross-connects.

CrsFilter Values	Description
ENDPTS	Retrieve endpoint cross-connects.
INTERM	Retrieve intermediate cross-connects.

CVAdslThreshRange

Coding Violation Threshold Range, specific to ADSL.

CVAdslThreshRange Values	Description
{1-5082352}	Number of Coding Violations.

CVThreshRange

Coding Violation Threshold Range.

CVThreshRange Values	Description
{1-1048575}	Number of Coding Violations.

DataBits

Data Bits.

This indicates the number of data bits used for the serial port

DataBits Values	Description
{7,8}	Data bits.

DataLink

Data Link

Channel via which DCC cross connects are set up.

DataLink Values	Description
LDCC	SONET Line Data Comm, all channels
LDCC1	SONET Line Data Comm Chn 1
LDCC2	SONET Line Data Comm Chn 2
LDCC3	SONET Line Data Comm Chn 3
SDCC	SONET Section Data Comm Chann

DataMode

Data Mode.

This parameter indicate the mode of data used by the ADSL port.

DataMode Values	Description
ATM	Asynchronous Transfer Mode.

DbchgSeq

Sequence number of REPT DBCHG message. Valid values are integers between 0 and 9999.

DbchgSeq Values	Description
{0-9999}	Range of values.

DCIN

DCx Integrity.

DCIN Values	Description
BOTH	BOTH DCA and DCB.
DCA	DCA.
DCB	DCB.

DdsRate

Data Rate

DdsRate Values	Description

2.4	2.4 kbps
4.8	4.8 kbps
56	56 kbps
64	64 kbps
9.6	9.6 kbps

DdsTest

The DDS card supports two modes of loop testing: Bipolar (analog) and Logic Near/Far (digital TTY). This parameter indicates which mode is to be used.

DdsTest Values	Description
BIPOLAR	Bipolar (analog) mode.
LOGIC	Logic Near/Far (digital TTY) mode.

Details

This indicates the level of detail that is to be returned in the HBH output parameter.

Details Values	Description
PROT	Return the protection path hop-by-hop
WKG	Return the working path hop-by-hop

DhcpL2RelayMode

No Comment Defined.

DhcpL2RelayMode Values	Description
NONE	No Comment Defined.
RELAY	No Comment Defined.
SNOOP	No Comment Defined.

DhcpLeaseAction

This type pertains to the action taken by the DHCP pool manager when a host requests a IP address.

DhcpLeaseAction Values	Description
ALLOW	The request is allowed subject to the pool access

	rules.
DENY	The request is denied.

DhcpProvType

This type describes how an IP address is assigned for a DHCP host.

DhcpProvType Values	Description
DSCVRD	The host was discovered and not provisioned. The IP address is dynamically allocated from a pool maintained by DCHP. The user never sets the DSCVRD provision type. It is only present on retrievals.
POOL	The IP address is dynamically allocated from a pool maintained by DCHP.
RELAY	The request for an IP address is relayed to the head end server.
STATIC	The IP address is statically provisioned.

DHGroup

Diffie-Hellman Key Group used for establishing IKE SA

DHGroup Values	Description
DH1	Diffie-Hellman Group1, using MODP 768
DH2	Diffie-Hellman Group1, using MODP 1024
NONE	None specified

Direction

Direction to monitor or control. This qualifies any AID or AIDType value.

Direction Values	Description
BTH	Both directions.
RCV	Receive direction only.
TRMT	Transmit direction only.

DQPSKMode

QPSK - Quaternary Phase Shift Keying

When MODE = SCTE55-1 set the DQPSK mode to Default or Alternate Operation

DQPSKMode Values	Description
ALT	Alternate operation mode
DFLT	Default operation mode.

DS1State

The current DDS1 source.

DS1State Values	Description
INVALID	Invalid source.
RAP-LINE	RAP-LINE DDS1 source.
SYSTEM	SYSTEM DDS1 source.

DS3TimingMode

Facility Timing Mode (Applicable to DS3E cards)

DS3TimingMode Values	Description
LOOP	T3 port transmit timing is sourced from the corresponding T3 port receive recovered timing.
SOURCE	T3 port transmit timing is sourced from the C7 system timing

Duplex

Duplex.

Duplex Values	Description
AUTO	Automatic.
FULL	Full Duplex.
HALF	Half Duplex.

Duration

Duration of external control operation.

Duration Values	Description

CONTS	Continuous duration.
MNTRY	Momentary or single instance duration.

DurationAlert

The duration of a security alert.

DurationAlert Values	Description
{1-15}	Time in seconds.

DwnStreamRate

Downstream Rate.

This parameter identifies the downstream rate in kilo bits per second. It must be a multiple of 32 kbps.

DwnStreamRate Values	Description
{0-32736}	kbps

E3EncapType

No Comment Defined.

E3EncapType Values	Description
BRIDGED	No Comment Defined.
ROUTED	No Comment Defined.

EBSLvl

EBS Level.

Levels for Enhanced Business Service

EBSLvl Values	Description
AUTO	EBS level Auto.
HIGH	EBS level High.
LOW	EBS level Low.

ECThreshRange

Error Correction Threshold Range.

ECThreshRange Values	Description
{1-340517584}	Error Correction Count.

EncapType

Encapsulation Type for the physical port.

EncapType Values	Description
ETHERNETV2	Ethernet V2

Environment

The environment in which the C7 shelf is located.

Environment Values	Description
CONTROL	Controlled environment in which air conditioning or heating is available.
NOTCONT	Not a controlled environment.

EnvPolarity

The polarity of the environment contact commands. This indicates whether the OPR-EXT-CONT command opens or closes the contact.

EnvPolarity Values	Description
NORMCLOSED	NORMal CLOSED. An alarm is raised if the pins are open.
NORMOPEN	NORMal OPEN. An alarm is raised if the pins are closed.

EOCAlarmReport

EOC Alarms.

This parameter indicates which alarms are to be reported through the EOC interface. The EOC

can report alarms for either the shelf IG, the entire network, or no alarms at all.

EOCALarmReport Values	Description
NETWORK	Report all network alarms.
NONE	Report no alarms.
SHELFIG	Report alarms for the shelf IG.

EqptTypeAll

Indicates all equipment types within the C7.

EqptTypeAll Values	Description
ADSL-24	Asymmetric digital subscriber line unit with 24 ports.
ADSL2-24	Asymmetric digital subscriber line unit with 24 ports (supports ADSL2 standard).
AMP	Administration and maintenance processor card.
ATP	Administrative and Test Processor.
C7-SHELF-10C	C7 Shelf, Cabinet, 10 Slots (CO).
C7-SHELF-10M	C7 Modified Shelf, Cabinet, 10 Slots (M)
C7-SHELF-20	C7 Shelf, 20 Slots
C7-SHELF-20C	C7 Shelf, Cabinet, 20 Slots20-slots (CO)
COMBO-24	Double-slot Combo ADSL and POTS card (24-line)
COMBO2-24	Single-slot Combo ADSL2+ and POTS card (24-line)
COMBO2-24D	Double-slot Combo ADSL2+ and POTS card (24-line)
CONTINUATION	Continuation record for a multi-slot Eqpt.
DS0-DP-6	Digital Signal Zero Dataport, 6 Ports
DS1A-12	Digital signal one card with twelve ports.
DS3-12P	Digital signal three card with twelve packet format ports.
DS3-4P	Digital signal three card with four packet format ports.
DS3/EC1-12S	Digital signal three card with twelve sonet format ports.
DS3E-4P	Digital signal three card with four packet format ports. Timing Capable.
FAN-TRAY	Fan Tray.
FAN-TRAY-10	Fan Tray, 10 Slot C7 Shelf
FE-12S	12-Port Fast Ethernet Module Synchronous card
GE-2P	2 port Gigabit Ethernet, 4 port Fast Ethernet Card - Central Office only

GE-2P/FE-4P	2 port Gigabit Ethernet, 4 port Fast Ethernet Card
GE-4S	4-port Gigabit Ethernet card
HDSL2/4-6	6-Port HDSL 2-Wire or 3-Port HDSL 4-wire
HEBS-12	12-Line Host Enhanced Business Service card.
HPOTS-24	24-Line Host POTS card.
HU2W-24	24-Line Host 2-Wire card.
IMA-12	12-port IMA
IRC	IP Route processor Card.
MSP-10	Metallic Service Protection, 10 Slot C7 Shelf
MSP-A	Metallic Service Protection assembly - Side A.
MSP-B	Metallic Service Protection assembly - Side B.
OC12-4-IR	Four port, intermediate range, OC12 card.
OC12-4S-IR	Four port, intermediate range, synchronous traffic only, OC12 card.
OC3-4-IR	Four port, intermediate range, OC3 card.
OC3-4S-IR	Four port, intermediate range, synchronous traffic only, OC3 card.
OC48-1-IR	One port, intermediate range, OC48 card.
OC48-1-LR	One port, long range, OC48 card.
OC48-1S-IR	One port, intermediate range, synchronous traffic only, OC48 card.
OC48-1S-LR	One port, long range, synchronous traffic only, OC48 card.
OCU-DP-6	Office Channel Unit Dataport, 6 Ports
OLTB-2	Optical Line Termination supporting 2 BPON Ports.
OLTG-4	Optical Line Termination supporting 4 GPON Ports.
RAP	Resource and Arbitration Processor
RAP-OC3/12	Resource and Arbitration Processor with Optical Carrier facilities card. This card has one OC port which may be provisioned to operate at the OC3 or OC12 rate.
RAP-OC3/12-SF	Resource and Arbitration Processor with single fiber Optical Carrier facilities card. This card has one single fiber OC port which may be provisioned to operate at the OC3 or OC12 rate.
RAP-OC3/12/48	Resource and Arbitration Processor with Optical Carrier facilities card. This card has one OC port which may be provisioned to operate at the OC3, OC12, or OC48 rate.
RAP-OC48-LR	RAP OC3/12/48 with long range optics (1550 nm wavelength).
RAP2	Resource and Arbitration Processor (Generation 2).
RAP2-OC3/12	Resource and Arbitration Processor with Optical Carrier facilities card (Generation 2). This card has one OC port which may be provisioned to operate

	at the OC3 or OC12 rate.
RAP2-OC3/12/48	Resource and Arbitration Processor with Optical Carrier facilities card (Generation 2). This card has one OC port which may be provisioned to operate at the OC3, OC12, or OC48 rate.
RAP2-OC48-LR	RAP OC3/12/48 (Generation 2) with long range optics (1550 nm wavelength).
REBS-12	12-Line Remote Enhanced Business Service card.
RPOTS-24	Plain old telephone service card with 24 ports.
RU2W-24	24-Line Remote 2-Wire card.
T1-6	TDM-only card
T1-6-A+T	TDM + ATM card
TO-6	Transmission Only, six-port card.
VGP	Voice Gateway Processor.
VIPR	Voice Gateway Processor Card for H248.

EqptTypeProv

Indicates the equipment type which can be provisioned within the C7.

EqptTypeProv Values	Description
ADSL-24	Asymmetric digital subscriber line unit with 24 ports.
ADSL2-24	Asymmetric digital subscriber line unit with 24 ports (supports ADSL2 standard).
AMP	Administration and maintenance processor card.
ATP	Administrative and Test Processor.
COMBO-24	Double-slot Combo ADSL and POTS card (24-line)
COMBO2-24	Single-slot Combo ADSL2+ and POTS card (24-line)
COMBO2-24D	Double-slot Combo ADSL2+ and POTS card (24-line)
DS0-DP-6	Digital Signal Zero Dataport, 6 Ports
DS1A-12	Digital signal one card with twelve ports.
DS3-12P	Digital signal three card with twelve packet format ports.
DS3-4P	Digital signal three card with four packet format ports.
DS3/EC1-12S	Digital signal three card with twelve sonet format ports.
DS3E-4P	Digital signal three card with four packet format ports. Timing Capable.
FAN-TRAY	Fan Tray.
FAN-TRAY-10	Fan Tray, 10 Slot C7 Shelf

FE-12S	12-Port Fast Ethernet Module Synchronous card
GE-2P	Two port, Gigabit Ethernet card.
GE-2P/FE-4P	Two port, Gigabit Ethernet card.
GE-4S	4-port Gigabit Ethernet card
HDSL2/4-6	6-Port HDSL 2-Wire or 3-Port HDSL 4-wire
HEBS-12	12-Line Host Enhanced Business Service card.
HPOTS-24	24-Line Host POTS card.
HU2W-24	24-Line Host 2-Wire card.
IMA-12	12-port IMA
IRC	IP Route processor Card.
MSP-10	Metallic Service Protection, 10 Slot C7 Shelf
MSP-A	Metallic Service Protection assembly - Side A.
MSP-B	Metallic Service Protection assembly - Side B.
OC12-4-IR	Four port, intermediate range, OC12 card.
OC12-4S-IR	Four port, intermediate range, synchronous traffic only, OC12 card.
OC3-4-IR	Four port, intermediate range, OC3 card.
OC3-4S-IR	Four port, intermediate range, synchronous traffic only, OC3 card.
OC48-1-IR	One port, intermediate range, OC48 card.
OC48-1-LR	One port, long range, OC48 card.
OC48-1S-IR	One port, intermediate range, synchronous traffic only, OC48 card.
OC48-1S-LR	One port, long range, synchronous traffic only, OC48 card.
OCU-DP-6	Office Channel Unit Dataport, 6 Ports
OLTB-2	Optical Line Termination supporting 2 BPON Ports.
OLTG-4	Optical Line Termination supporting 4 GPON Ports.
RAP	B-Rap
RAP-OC3/12	Resource and Arbitration Processor with Optical Carrier facilities card. This card has one OC port which may be provisioned to operate at the OC3 or OC12 rate.
RAP-OC3/12-SF	Resource and Arbitration Processor with single fiber Optical Carrier facilities card. This card has one single fiber OC port which may be provisioned to operate at the OC3 or OC12 rate.
RAP-OC3/12/48	Resource and Arbitration Processor with Optical Carrier facilities card. This card has one OC port which may be provisioned to operate at the OC3, OC12, or OC48 rate.
RAP-OC48-LR	RAP OC3/12/48 with long range optics (1550 nm wavelength).
RAP2	Resource and Arbitration Processor (Generation 2).
RAP2-OC3/12	Resource and Arbitration Processor with Optical

	Carrier facilities card (Generation 2). This card has one OC port which may be provisioned to operate at the OC3 or OC12 rate.
RAP2-OC3/12/48	Resource and Arbitration Processor with Optical Carrier facilities card. This card has one OC port which may be provisioned to operate at the OC3, OC12, or OC48 rate.
RAP2-OC48-LR	RAP OC3/12/48 (Generation 2) with long range optics (1550 nm wavelength).
REBS-12	12-Line Remote Enhanced Business Service card.
RPOTS-24	Plain old telephone service card with 24 ports.
RU2W-24	24-Line Remote 2-Wire card.
T1-6	TDM-only card
T1-6-A+T	TDM + ATM card
TO-6	Transmission Only, six-port card.
VGP	Voice Gateway Processor.
VIPR	Voice Gateway Processor Card for H248.

EqptTypeShelf

Indicates the specific C7 Shelf Type.

EqptTypeShelf Values	Description
C7-SHELF-10C	C7 Shelf, Cabinet, 10 Slots (CO).
C7-SHELF-10M	C7 Modified Shelf, Cabinet, 10 Slots (M)
C7-SHELF-20	C7 Shelf, 20 Slots
C7-SHELF-20C	C7 Shelf, Cabinet, 20 Slots20-slots (CO)

Equalization

Attenuation distortion equalization setting in feet.

Equalization Values	Description
{1-655}	Indicates the feet.

EthPortLinkState

Subscriber ethernet port link state. For ONT ETH ports only.

EthPortLinkState Values	Description
DOWN	Link is Down

UP	Link is Up
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EthProfBw

This is the bandwidth available for this Ethernet traffic profile. It can be changed in 1 Mbps increments and could go as high as 4 GB for a link aggregate. The rate is only enforced on a per-Vlan basis if policing is turned on for the port. If policing is off, the bandwidth limit will be that of the entire port.

EthProfBw Values	Description
{1-4000}	Mbps

EthTopo

Topology. Indicates the topology of the Extended LAN.

EthTopo Values	Description
EPR	Ethernet Packet Ring
LINEAR	Linear Chain
P2P	Point-to-Point

ExcessRate

Excess Rate Allocation (Dual Channel Only).

The ratio configuration values, one for downstream and one for upstream, specify the ratio (expressed in %) of excess bit rate that is to be applied to the primary bearer channel before applying bit rate to the secondary bearer channel. The primary channel will always be channel 0.

The excess bit rate is the rate considered for rate adaptation amongst the primary and secondary channels (Channel 0 and Channel 1). The rate that can be considered excess is the rate in excess of the minimum bit rate parameter for each DS or US channel.

ExcessRate Values	Description
{0-100}	Percent of excess rate.

ExtTmg

The configuration of external timing interfaces.

ExtTmg Values	Description
CC	Composite clock. The composite clock pins are

	used as the source of system timing. This value is valid only for External timing.
CCINDS1OUT	Composite Clock and Output DS1. The composite clock pins are used as the source of system timing. DS1 timing is to be output on only the Derived DS1 pins. This value is valid only for External timing.
DS1	Digital Signal 1. The Derived DS1 pins are used as the source of system timing. This value is valid only for External timing.
DS1INOUT	Digital Signal 1 and Output DS1. The Derived DS1 pins are used as the source of system timing and DS1 timing is to be output on only the Composite Clock pins. This value is valid only for External timing.
OUTCC	Output Composite Clock. Timing is to be output on only the Composite Clock pins. This value is valid for Line timing and Freerun.
OUTDS1	Output DS1. Timing is to be output on only the Derived DS1 pins. This value is valid for Line timing and Freerun.
OUTOFF	Output off. No timing signal is to be output. This value is valid for Line timing and Freerun.

FormatSignal

Digital signal format of a DS1 port.

FormatSignal Values	Description
ESF	Extended superframe.
SF	Superframe.
UF	Unframed.

FormatT3

Digital signal format of a DS3 port.

FormatT3 Values	Description
CBIT	C-Bit parity format.
M23	M23 format.

FwdMode

ForWarD MODE.

FwdMode Values	Description
ROUTED	Layer 3 RBE Routed.
SWITCHED	Layer 2 Switched.

GenSigFunction

Generic signaling function.

GenSigFunction Values	Description
2COIN	Two-wire Dial Tone First Coin signalling.
2EBS	Two-wire EBS signaling. EBS = Enhanced Business Service.
2GS	Two wire ground start signaling.
2LR	Two-wire Private Automatic Ringdown (PLAR-no format) signaling.
2LS	Two wire loop start signaling
2LSGS	Two wire loop start or ground start signaling.
2NO	2-wire Transmission Only
2NOS	2-wire Transmission Only, sealing current supplied.
2RVOD	Loop reverse battery supervision, connecting NE supplies battery, 2 wire only, delay dial outpulsing.
2RVOI	Loop reverse battery supervision, connecting NE supplies battery, 2 wire only, immediate dial outpulsing.
2RVOW	Loop reverse battery supervision, connecting NE supplies battery, 2 wire only, wink start. outpulsing.
4D0	For the DS0DPx6 line unit.
4DU	For the OCUDPx6 line unit.
4NO	4-wire Transmission Only
4NOS	4-wire Transmission Only, sealing current supplied

Gr8AlmBits

Number of alarm bits for a GR-8 Interface Group.

Gr8AlmBits Values	Description
{13,16}	Allowed values.

H248SwitchType

SWitch TYPE

The parameter indicate the type of switch which the H.248 interface group will be connected to.

H248SwitchType Values	Description
CS2K	Nortel CS2K
CUCOM	CopperCom
GBANDG2	Gen Band G2 ESA Engine
GBANDG6	Gen Band G6 ESA Engine
META9020	MetaSwitch CA9020
NONE	No Switch Type defined.
SONUS	Sonus MGC
T3000	Tekelec T3000 MGC
T9000	Tekelec T9000 MGC

HashType

Hash Algorithm used for establishing IKE SA

HashType Values	Description
MD5	Message-Digest algorithm 5
SHA1	Secure Hash Algorithm-1

HdslLineState

HDSL Line State

HdslLineState Values	Description
ACTIVE	Active
DEACTIVATED	Deactivated
IDLE	Idle
STARTUP	Startup

HdslLineType

HDSL Line Type

HdslLineType Values	Description
2WIRE	2-Wire, uses a single twisted pair

4WIRE	4-Wire, uses two twisted pairs (and two port addresses)
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HdslLoopAttenThresh

HDSL Loop Attenuation Threshold

HdslLoopAttenThresh Values	Description
{0-127}	dB. (0 = OFF)

HdslTermType

HDSL Terminal Unit Type

HdslTermType Values	Description
COT	Central Office Terminal
RT	Remote Terminal

HopByHop

This parameter identifies whether the cross-connect is a hop-by-hop cross-connect. If this is a hop-by-hop and the PROTN=Y, then this parameter will also indicate if this is working or the protect path of the hop-by-hop.

HopByHop Values	Description
NOTBH	This is not a hop-by-hop cross-connect.
PROT	This is a hop-by-hop cross-connect and this is the protection path.
WORK	This is a hop-by-hop cross-connect and this is the working path.

Idle

Indicates DS3 idle signal is ued or not used.

Idle Values	Description
OFF	DS3 idle signal is not transmitted.
ON	DS3 idle signal will be transmitted.

IgMode

GR-8 Interface Group Mode.

IgMode Values	Description
MODE1	GR-8 mode I. This has each subscriber assigned a fixed time-slot in its T1.
MODE2	GR-8 mode II. This is concentrated with each T1 carrying up to 48 calls.

IgmpCtlMode

Internet group management protocol Client Mode

IgmpCtlMode Values	Description
ALTERNATE	Alternate mode.
NORMAL	Normal mode.

IgmpType

IGMP protocol type.

IgmpType Values	Description
NONE	NONE - IGMP protocol disabled
SINK	IGMP Protocol - SINK. Multicast traffic arrives over a physical interface to a C7 port.
SOURCE	IGMP Protocol - SOURCE. C7 Port transmits multicast traffic onto a physical interface.

IkeAuthType

IKE Authorization Type, indicates the format of the pre-shared key

IkeAuthType Values	Description
PSK_HEX	Use PreShared-Key specified in hex to negotiate IKE SA. characters.
PSK_STR	Use PreShared-Key specified as a string to negotiate IKE SA. characters.

IkeProtocolVersion

IKE Protocol Version

IkeProtocolVersion Values	Description
AUTO	AUTO will request V1, but accepts either V1 or V2
V1	IKEv1
V2	IKEv2

ImaClkMode

Specifies the transmit clock mode for an IMA group. Currently, the C7 is statically configured to only support the Common Transmit Clock mode.

ImaClkMode Values	Description
CTC	Common Transmit Clock mode. The transmit clocks of all the physical links within the IMA group are derived from the same clock source.
ITC	Independent Transmit Clock mode. The transmit clock of at least one link within the IMA group is derived from a clock source different from some of the other transmit links.

ImaDiffDelay

Maximum Differential Delay. The maximum number of milliseconds of differential delay among the links that will be tolerated.

ImaDiffDelay Values	Description
{0-200}	ms.

ImaFrm

Frame Length. The IMA frame length to be used by the IMA group.

ImaFrm Values	Description
128	128
256	256
32	32
64	64

ImaIdleCellType

This indicates how IMA idle cells will be transmitted.

ImaIdleCellType Values	Description
FILLERV1.0	Transmit IMA v1.0 filler cells per ATM Forum af-phy-0086.001.
FILLERV1.1	Transmit IMA v1.1 filler cells per ATM Forum af-phy-0086.001.
IDLE	Transmit idle cells per ITU-T Series I: Integrated Services Digital Network, I.361
UNASSIGNED	Transmit unassigned cells per ITU-T Series I: Integrated Services Digital Network, I.361

ImaLinks

Minimum links. Minimum number of links required to be Active for the IMA group to be in the Up state.

ImaLinks Values	Description
{1-16}	1-16

ImaLinkStuff

Stuff events threshold range.

ImaLinkStuff Values	Description
{0-1036800}	Number of stuff events allowed, in either the Tx or Rx direction in a 1 day period. Note the maximum for a 15-min period is 10800.

ImaMap

The mapping to be performed on the fixed length packets when being sent over the IMA interface

ImaMap Values	Description
NNI	Network to Network Interface format. This is the mapping that should be specified for an NNI. The VP field of the address is 12 bits.
UNI	User to Network Interface format. This is the mapping that should be specified for a UNI. The

VP field of the address is 8 bits.

ImaSymMode

Symmetry Mode. The IMA protocol is defined to allow symmetric or asymmetric cell rate transfer over the IMA virtual link. Currently, the C7 is statically configured to operate in Symmetrical Configuration and Operation mode only.

ImaSymMode Values	Description
ASYMCFGASYMOPR	Asymmetrical Configuration and Asymmetrical Operation. In this optional mode, the IMA unit is not required to configure the IMA links in both transmit and receive directions of all the configured physical links. The IMA unit is allowed to transmit ATM cells over the physical links on which the IMA link in the Tx direction is Active while the IMA link in the receive direction is not Active (or vice versa).
SYMCFGASYMOPR	Symmetrical Configuration and Asymmetrical Operation. In this optional mode, the IMA unit is required to configure an IMA link in each direction (Tx, Rx) for all the physical links in use. The IMA unit is allowed to transmit ATM cells over the physical links on which the IMA link in the Tx direction is Active while the IMA link in the receive direction is not Active (or vice versa).
SYMCFGSYMOPR	Symmetrical Configuration and Operation: Mandatory mode. In this mode, the IMA unit is required to configure an IMA link in each direction (Tx, Rx) for all the physical links in use. The IMA unit is only allowed to transmit and receive ATM layer cells over physical links on which IMA links running in both directions are Active.

ImaVersion

No Comment Defined.

ImaVersion Values	Description
1.0	No Comment Defined.
1.1	No Comment Defined.

ImpedanceOhms

Indicates the value of impedance in ohms.

ImpedanceOhms Values	Description
1200	Ohms.
150	Ohms.
600	Ohms.
900	Ohms.

InitStatus

Initialization Status.

This parameter indicates the current status of the initializations.

InitStatus Values	Description
5MINCRCDS	5MinCRCDownFailure - Downstream failure due to a number of CRC error in 5 consecutive minutes
5MINCRCUS	5MinCRCUpFailure- Upstream failure due to a number of CRC error in 5 consecutive minutes
CNFG	Configuration Error.
COMM	Communications Problem.
LOF	ATU-C failure due to not receiving valid frame.
LOM	lossOfMargin - SNR margin is below the minimum SNR margin
LOS	ATU-C failure due to not receiving signal.
LOSQ	Loss of signal quality is declared when the noise margin falls below the minimum noise margin, or the biterror-rate exceeds 10^{-7} .
LPR	ATU-C failure due to loss of power.
MINRATEDS	MinRateDownInitFailure - ATU-C dropped the line after initialization due to inability to meet downstream Min Rate criteria
MINRATEUS	MinRateUpInitFailure - ATU-C dropped the line after initialization due to inability to meet upstream Min Rate criteria
MINSNRDS	MinSnrMgnDownFailure - ATU-C dropped the line after initialization due to inability to meet downstream Min SNR margin criteria
MINSNRUS	MinSnrMgnUpFailure - ATU-C dropped the line after initialization due to inability to meet upstream Min SNR margin criteria
NATU	No ATU-R detected.
NFEAS	Configuration is Not Feasible.
NOER	No error.

InternalCrsTypes

Internal Cross Connection Types. Some cross connects are created internally by the C7 and hidden from the user by default. Note that C7 support personnel may be required to interpret a retrieval response for hidden cross connects.

InternalCrsTypes Values	Description
ALL	Show all hidden/internal cross connects.
ATMOAM	Show internal ATM OAM cross-connects.
CRPRCVC	Show internal CRPR Control VC cross-connects.
ORPCTL	Show internal ORP control cross-connects.
VIDDROP	Show internal video drop cross connects.

InvalidAttempts

The number of invalid attempts which will be allowed.

InvalidAttempts Values	Description
{2-6}	Range of values.

IpHostEqptType

Identifies the equipment associated with an IP host or an OUI.

IpHostEqptType Values	Description
IRC	IRC. This value can not be specified on input, rather can only be determined by the system and thus displayed on output.
OTHER	Some other host, such as a PC
STB	Set Top Box

IpHostProto

This type describes how an IP address was assigned for a host.

IpHostProto Values	Description
ARP	The IP address was determined using dynamic ARP.
DHCPRELAY	The DHCP request for an IP address is relayed to the head end server.

INATMARP	Identifies IP hosts that are learned via inATMARP from a Virtual Router port vs those learned via plain ARP from a VLAN port.
LOCALIF	The IP address is a local IP interface that was created using the ENT-IP-IF command.
STATIC	The IP address was statically provisioned.

IpSecEncapMode

No Comment Defined.

IpSecEncapMode Values	Description
TRANSPORT_AH	No Comment Defined.
TRANSPORT_ESP	No Comment Defined.
TUNNEL_AH	No Comment Defined.
TUNNEL_ESP	No Comment Defined.

LatchLpbkTimeout

Latching Loopback Timeout

LatchLpbkTimeout Values	Description
{0-1500}	Minutes to Timeout

Latency

Latency.

Latency is the delay in data transmission through the DSL link. Latency parameter is configured in milliseconds.

Latency Values	Description
{5-64}	Milliseconds.
AUTO	Automatic. This setting allows the ADSL card to pick the most appropriate interleave latency.

LineAttn

Line Attenuation.

LineAttn Values	Description
0.0	dB.
0.5	dB.
1.0	dB.
1.5	dB.
10.0	dB.
10.5	dB.
11.0	dB.
11.5	dB.
12.0	dB.
12.5	dB.
13.0	dB.
13.5	dB.
14.0	dB.
14.5	dB.
15.0	dB.
15.5	dB.
16.0	dB.
16.5	dB.
17.0	dB.
17.5	dB.
18.0	dB.
18.5	dB.
19.0	dB.
19.5	dB.
2.0	dB.
2.5	dB.
20.0	dB.
20.5	dB.
21.0	dB.
21.5	dB.
22.0	dB.
22.5	dB.
23.0	dB.
23.5	dB.
24.0	dB.
24.5	dB.
25.0	dB.
25.5	dB.
26.0	dB.
26.5	dB.
27.0	dB.
27.5	dB.

28.0	dB.
28.5	dB.
29.0	dB.
29.5	dB.
3.0	dB.
3.5	dB.
30.0	dB.
30.5	dB.
31.0	dB.
31.5	dB.
32.0	dB.
32.5	dB.
33.0	dB.
33.5	dB.
34.0	dB.
34.5	dB.
35.0	dB.
35.5	dB.
36.0	dB.
36.5	dB.
37.0	dB.
37.5	dB.
38.0	dB.
38.5	dB.
39.0	dB.
39.5	dB.
4.0	dB.
4.5	dB.
40.0	dB.
40.5	dB.
41.0	dB.
41.5	dB.
42.0	dB.
42.5	dB.
43.0	dB.
43.5	dB.
44.0	dB.
44.5	dB.
45.0	dB.
45.5	dB.
46.0	dB.
46.5	dB.
47.0	dB.
47.5	dB.

48.0	dB.
48.5	dB.
49.0	dB.
49.5	dB.
5.0	dB.
5.5	dB.
50.0	dB.
50.5	dB.
51.0	dB.
51.5	dB.
52.0	dB.
52.5	dB.
53.0	dB.
53.5	dB.
54.0	dB.
54.5	dB.
55.0	dB.
55.5	dB.
56.0	dB.
56.5	dB.
57.0	dB.
57.5	dB.
58.0	dB.
58.5	dB.
59.0	dB.
59.5	dB.
6.0	dB.
6.5	dB.
60.0	dB.
60.5	dB.
61.0	dB.
61.5	dB.
62.0	dB.
62.5	dB.
63.0	dB.
63.5	dB.
64.0	dB.
64.5	dB.
65.0	dB.
65.5	dB.
66.0	dB.
66.5	dB.
67.0	dB.
67.5	dB.

68.0	dB.
68.5	dB.
69.0	dB.
69.5	dB.
7.0	dB.
7.5	dB.
70.0	dB.
70.5	dB.
71.0	dB.
71.5	dB.
72.0	dB.
72.5	dB.
73.0	dB.
73.5	dB.
74.0	dB.
74.5	dB.
75.0	dB.
75.5	dB.
76.0	dB.
76.5	dB.
77.0	dB.
77.5	dB.
78.0	dB.
78.5	dB.
79.0	dB.
79.5	dB.
8.0	dB.
8.5	dB.
80.0	dB.
9.0	dB.
9.5	dB.

LineBuildOut

Indicates line build out setting.

LineBuildOut Values	Description
{1-450}	Range in feet.

LineCode

Indicates the line coding of a DS1 port.

LineCode Values	Description
AMI	Alternate mark inversionn (bipolar).
B8ZS	Bipolar with 8 zero substitution.

LineRate

Line Rate.

This parameter only applies when provisioning RAP-OC cards. This is the configurable line speed of the equipment. There can be no port provisioning present on the card in order to change this parameter.

LineRate Values	Description
OC12	Line Rate for Rap-OC12.
OC3	Line Rate for Rap-OC3.
OC48	Line Rate for Rap-OC48.

LineState

Line State. The Current state of an ADSL port.

LineState Values	Description
ACTIVE	Line State = Active.
DIS	Line State = Disabled.
IDLE	Line State = Idle.
INIT	Line State = Init.
TEST	Line State = Test.

LinkState

Indicates the status of the data link.

LinkState Values	Description
ACT-DWN	Active link and it is down.
ACT-UP	Active link and it is up.
STBY-DWN	Standby link and it is down.
STBY-UP	Standby link and it is up.

LinkType

Indicates the type of communication path used between C7 shelf within the system for internal communications.

LinkType Values	Description
ICC	Internal communications channel.
LDCC	Line data communication channel.
SDCC	Section data communication channel.

LinkTypeDcc

Indicates the type of Data Communications Channel -- Line or Section.

LinkTypeDcc Values	Description
LDCC	Line data communication channel.
SDCC	Section data communication channel.

Location

This parameter indicates the location of an entity on a line. Thus, NEND refers to alarm conditions occurring at the identified entity, and FEND refers to alarm conditions occurring at a distant entity that is connected to the identified entity.

Location Values	Description
FEND	Far End.
NEND	Near End.

LocationAll

This parameter indicates the location of an entity on a line. Thus, NEND refers to alarm conditions occurring at the identified entity, and FEND refers to alarm conditions occurring at a distant entity that is connected to the identified entity. LINE[-x] refers to an intermediate point (e.g. repeater).

LocationAll Values	Description
FEND	Far End.
LINE1	The first intermediate point on the transmission facility.
LINE2	The second intermediate point on the transmission facility.
LINE3	The third intermediate point on the transmission facility.
LINE4	The fourth intermediate point on the transmission

	facility.
NEND	Near End.

LogEntryType

This identifies the log entry type.

LogEntryType Values	Description
ALM	Alarm
DLT	Delete
ED	Edit
ENT	Enter
EVT	Event
INIT	Initialization
RMV	Remove from service
RST	Restore into service
SWTCH	Protection switch
TCA	Threshold Crossing Alert

LogName

Allows the user to manually specify the name of a log which can be used for specific message categories.

LogName Values	Description
ALM	Alarm log. This log contains all automatic alarm messages which are generated by the C7 system.
DBCHG	Database change log. This log contains all the changes which have occurred to the database since the log was last initialized.
EVT	Event log. This log contains all the automatic non-alarmed conditions, and events, including remove/restore and protection switch notifications.
SECU	Security log. This log contains all automatic message and data associated with security. This log can only be retrieved by the Security Administrator.
TCA	Threshold Crossing Log. This log contains all automatic PM threshold crossing alerts which are generated by the C7 system.

LpbkFacOrTerm

Type of loop back that is to be operated or released by an NE. Depending on the transmission system, various parts of a signal may be looped back.

LpbkFacOrTerm Values	Description
FACILITY	Loopback toward the Facility. In this type of loopback, the signal coming in on the facility is looped back toward the facility before it has passed through the framer. Thus, it is looped back as soon as possible after it has arrived on the line unit.
TERMINAL	Loopback toward the Terminal. In this type of loopback, the signal being generated by the terminal is looped back toward the terminal after it has passed through the framer. Thus, it is looped back just before it reaches the external facility.

LpbkFacTermOrPayload

Type of loop back that is to be operated or released by an NE. Depending on the transmission system, various parts of a signal may be looped back.

LpbkFacTermOrPayload Values	Description
FACILITY	Loopback toward the Facility. In this type of loopback, the signal coming in on the facility is looped back toward the facility before it has passed through the framer. Thus, it is looped back as soon as possible after it has arrived on the line unit.
PAYLOAD	Loopback of the Payload. In this type of loopback, the signal coming in on the facility is looped back toward the facility AFTER it has passed through the framer. Thus, only the payload is looped back. The framing overhead is stripped off and regenerated by the line unit.
TERMINAL	Loopback toward the Terminal. In this type of loopback, the signal being generated by the terminal is looped back toward the terminal after it has passed through the framer. Thus, it is looped back just before it reaches the external facility.

LpbkVpVc

Type of loop back cell that is generated by an NE. Depending on the loopback type parameter, various parts of a VP/VC may be looped back. For example, a SINGLE segment VP/VC-LB cell is inserted by a VPC/VCC segment endpoint, and looped back by a specific sink VPC/VCC segment endpoint denoted by C7 network ID. This type of segment loopback

is identified by LLID field coded with a particular C7 network ID.

LpbkVpVc Values	Description
IMMED	Immediate segment Loopback. A segment VP/VC-LB cell is inserted by a VPC/VCC segment endpoint, and looped back by the immediate sink VPC/VCC segment endpoint. This type of segment loopback is identified by LLID field coded with all 1s.
MULTI	Multiple segment Loopback. A segment VP/VC-LB cell is inserted by a VPC/VCC segment endpoint, and looped back by the every sink VPC/VCC segment endpoints. Upon receiving such segment loopback cell, each sink segment endpoint shall reset the LD bit and send the resulting cell back in the reverse direction. And at the same time, forward the parent cell downstream. This type of segment loopback is identified by LLID field coded with all 0s.
SINGLE	Single segment loopback. A segment VP/VC-LB cell is inserted by a VPC/VCC segment endpoint, and looped back by a specific sink VPC/VCC segment endpoint denoted by C7 network ID. This type of segment loopback is identified by LLID field coded with a particular C7 network ID.
TOEND	End-to-end loopback. An end-to-end VP/VC-LB cell is inserted at the specified point, and looped back at the end of the virtual path or circuit.

MapT1

Indicates the type of mapping supported by the digital signal.

MapT1 Values	Description
SYNC	Synchronous - channelized DS0.

MaxIFrames

This specifies the maximum number of information (I) frames that may be outstanding at Layer 2 using LAPD.

MaxIFrames Values	Description
{1-7}	Range of values.

MemoryType

The type of memory being copied or compared.

MemoryType Values	Description
WRKDB	Working database. This is the currently working database within the card.

MemoryType2

The type of memory being compared.

MemoryType2 Values	Description
BCKDB	Backup memory. This is the backup memory.
WRKDB	Working memory. This is the working memory.

MetTestErrorCode

Metallic Test Error. This indicates the type of error that can occur during a metallic loop test.

MetTestErrorCode Values	Description
FV	Foreign voltage out of range.
HWFAIL	Drop Test Hardware Failure
OFFHOOK	Possible ringer off-hook.

Mode

The mode is a parameter used to determine if the protection is a ring or linear.

Mode Values	Description
CLOSED	A ring configuration.
OPEN	A linear configuration.

MonitorTypeAdsl

Indicates the type of monitored parameters in a ADSL Service.

MonitorTypeAdsl Values	Description
CORCH0	Count of all blocks received with errors that were

	corrected, channel 0.
CORCH1	Count of all blocks received with errors that were corrected, channel 1.
CVF-L	Coding violations fast - line.
CVI-L	Coding violations interleaved - line.
ECF-L	Forward error correction count fast - line.
ECI-L	Forward error correction count interleaved - line.
ECS-L	Forward error correction count second - line.
ES-L	Errored seconds - line.
FR	Fast Retrain Count.
FRF	Failed Fast Retrain attempts.
HECCCF-P	HEC total cell count fast - path.
HECCI-P	HEC total cell count interleaved - path.
HECCVF-P	HEC violation count fast - path.
HECCVI-P	HEC violation count interleaved - path.
INIT	Count of the line initialization attempts (retrain).
LOFC	Count of the number of Loss of Framing failures.
LOLC	Count of the number of Loss of Link failures.
LOSC	Count of the number of Loss of Signal failures. This also represents number of retrains.
LOSS-L	Loss of signal seconds count - line.
MAXSNR	There is a MAXSNR and a MINSNR for near-end. This is what the ATU-C sees on its RX stream, and therefore is Upstream SNR. There is a MAXSNR and a MINSNR for far-end. This is what the ATU-R sees on its RX stream, and therefore is Downstream SNR.
MINSNR	There is a MAXSNR and a MINSNR for near-end. This is what the ATU-C sees on its RX stream, and therefore is Upstream SNR. There is a MAXSNR and a MINSNR for far-end. This is what the ATU-R sees on its RX stream, and therefore is Downstream SNR.
PERU	PERcentage Utilization of ingress port
PERU-E	PERcentage Utilization of Egress port
RXCH0	Count of all encoded blocks received, channel 0.
RXCH1	Count of all encoded blocks received, channel 1.
SES-L	Severely errored seconds - line.
TCC0-P	TCC0-P Total Cell Count for Ch0 Path, ingress
TCC0-PE	TCC0-PE Total Cell Count for Ch0 Path, Egress
TCC1-P	TCC1-P Total Cell Count for Ch1 Path, ingress
TCC1-PE	TCC1-PE Total Cell Count for Ch1 Path, Egress
TXCH0	Count of all encoded blocks transmitted, channel 0.
TXCH1	Count of all encoded blocks transmitted, channel 1.
UAS-L	Unavailable seconds - line.
UCORCH0	Count of all blocks received with uncorrectable,

	channel 0.
UCORCH1	Count of all blocks received with uncorrectable, channel 1.

MonitorTypeAp

Indicates the type of monitored parameters for an AP (ATM Resource Port).

MonitorTypeAp Values	Description
INVVPVC-P	Invalid VPI/VCI count, path, ingress.
INVVPVC-PE	Invalid VPI/VCI count, path, egress.
IV-IMA	IMA Control Protocol (ICP) Violations. Count of errored, invalid, or missing ICP cells, except during seconds where a SES-IMA or UAS-IMA condition is reported.
OIF-IMA	Count of Out of IMA Frame (OIF) anomalies except during SES-IMA or UAS-IMA conditions
PERU-P	Percent Utilization, path, ingress.
PERU-PE	Percent Utilization, path, egress.
RX-FC	Count of the number of NE Receive Link failure alarm entrances. The possible NE Rx link failure alarm conditions are: LIF, LODS, and Rx-Fault
RX-STUFF-IMA	Count of stuff events inserted in the receive direction, except during SES-IMA and UAS-IMA conditions.
RX-UUS-IMA	Count of Rx Unusable seconds.
SES-IMA	Count of Severely Errored Seconds. This includes 1-second intervals containing $\geq 30\%$ of the ICP cells counted as IV-IMAs, or one or more near-end link defects (facility, LIF, or LODS) during non-UAS-IMA intervals. The number of IV-IMA counts required to meet the 30% criteria will depend on the facility line rate and the IMA frame size (M).
TCC-P	Total Cell Count, path, ingress.
TCC-PE	Total Cell Count, path, egress.
TX-FC	Count of the number of NE Transmit Link failure alarm entrances. The possible NE Tx link failure alarm conditions are: Tx-Mis-Connected and Tx-Fault.
TX-STUFF-IMA	Count of stuff events inserted in the transmitted direction.
TX-UUS-IMA	Count of Tx Unusable seconds.
UAS-IMA	Unavailable seconds at NE. The NE unavailability begins at the onset of 10 contiguous SES-IMA including the first 10 seconds to enter the UAS-

	IMA condition, and ends at the onset of 10 contiguous second with no SES-IMA, excluding the last 10 seconds to exit the UAS-IMA condition.
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MonitorTypeEc1

Indicates the type of monitored parameters in a EC1 Service.

MonitorTypeEc1 Values	Description
AISS-L	Alarm Indication Signal count - Line
CV-L	Code Violations - Line
CV-S	Code Violations - Section
ES-L	Errored Seconds - Line
ES-S	Errored Seconds - Section
FC-L	Failure Count - Line
LOSS	Loss of Signal defects
SEFS-S	Severely Errored Framing Seconds - Section
SES-L	Severely Errored Seconds - Line
SES-S	Severely Errored Seconds - Section
UAS-L	Unavailable Seconds - Line

MonitorTypeHdsl

Indicates the type of monitored parameters in a HDSL Service.

MonitorTypeHdsl Values	Description
AISS-P	Alarm indication slip seconds count - path.
CSS-P	Control slip seconds count - path.
CV-L-LP1	Coding violation count - line, loop 1.
CV-L-LP2	Coding violation count - line, loop 2.
CV-P	Coding violation count - path.
ES-L-LP1	Error second count - line, loop 1.
ES-L-LP2	Error second count - line, loop 2.
ES-P	Error second count - path.
LOSWS-L-LP1	Loss of Sync Word seconds - line, loop 1.
LOSWS-L-LP2	Loss of Sync Word seconds - line, loop 2.
RTRN-LP1	Retrain count, loop 1.
RTRN-LP2	Retrain count, loop 2.
SES-L-LP1	Severely errored second count - line, loop 1.
SES-L-LP2	Severely errored second count - line, loop 2.
SES-P	Severely errored second count - path.

UAS-L-LP1	Unavailable seconds - line, loop 1.
UAS-L-LP2	Unavailable seconds - line, loop 2.
UAS-P	Unavailable second count - path.

MonitorTypeIma

Indicates the type of monitored parameters in an IMA Group.

MonitorTypeIma Values	Description
GR-FC	Group failure count
GR-UAS-IMA	Unavailable Seconds IMA. Count of seconds where IMA GTSM is down.
INVVPVC-P	Invalid VPI/VCI count, path, ingress.
INVVPVC-PE	Invalid VPI/VCI count, path, egress.
PERU-P	Percent Utilization, path, ingress.
PERU-PE	Percent Utilization, path, egress.
TCC-P	Total Cell Count, path, ingress.
TCC-PE	Total Cell Count, path, egress.

MonitorTypeImaLink

Indicates the type of monitored parameters in an IMA Link.

MonitorTypeImaLink Values	Description
IV-IMA	IMA Control Protocol (ICP) Violations. Count of errored, invalid, or missing ICP cells, except during seconds where a SES-IMA or UAS-IMA condition is reported.
OIF-IMA	Count of Out of IMA Frame (OIF) anomalies except during SES-IMA or UAS-IMA conditions
RX-FC	Count of the number of NE Receive Link failure alarm entrances. The possible NE Rx link failure alarm conditions are: LIF, LODS, and Rx-Fault
RX-STUFF-IMA	Count of stuff events inserted in the receive direction, except during SES-IMA and UAS-IMA conditions.
RX-UUS-IMA	Count of Rx Unusable seconds.
SES-IMA	Count of Severely Errored Seconds. This includes 1-second intervals containing $\geq 30\%$ of the ICP cells counted as IV-IMAs, or one or more near-end link defects (facility, LIF, or LODS) during non-UAS-IMA intervals. The number of IV-IMA counts required to meet the 30% criteria will

	depend on the facility line rate and the IMA frame size (M).
TX-FC	Count of the number of NE Transmit Link failure alarm entrances. The possible NE Tx link failure alarm conditions are: Tx-Mis-Connected and Tx-Fault.
TX-STUFF-IMA	Count of stuff events inserted in the transmitted direction.
TX-UUS-IMA	Count of Tx Unusable seconds.
UAS-IMA	Unavailable seconds at NE. The NE unavailability begins at the onset of 10 contiguous SES-IMA including the first 10 seconds to enter the UAS-IMA condition, and ends at the onset of 10 contiguous second with no SES-IMA, excluding the last 10 seconds to exit the UAS-IMA condition.

MonitorTypeOCn

Indicates the type of monitored parameter in a STSp, where p = 3, 12, 48.

MonitorTypeOCn Values	Description
CV-L	Coding violation count - line.
CV-S	Coding violation count - section.
ES-L	Error second count - line.
ES-S	Error second count - section.
FC-L	Failure count - line.
PSC	Protection switching count. There is not threshold associated with this counter.
PSD	Protection switching duration in seconds. There is not threshold associated with this counter.
SEFS-S	Severely errored framing second count - section.
SES-L	Severely errored second count - line.
SES-S	Severely errored second count - section.
UAS-L	Unavailable second count - line.

MonitorTypeOnt

Indicates the type of monitored parameter for a GPON/ONT.

MonitorTypeOnt Values	Description
BES	Number of seconds during the period when a BIP8 error was detected. For the FEND case, the

	granularity is 5 seconds rather than 1 second.
BIP8	BIP8 errors detected on PON transport. NEND is OLT detected, FEND is ONT detected.
MES	Number of seconds during the period when a missing error was detected. (NEND only)
MISSING	Count of missed bursts (no received traffic from ONT in allocated timeslot). (NEND only)
SES	For NEND this is the count of seconds where either the BIP8 count has exceed a threshold or where the number of missing bursts equals the number of possible bursts for the ONT. For FEND this is the count of seconds where the BIP8 count has exceeded a threshold. For the FEND case the granularity is 5 seconds rather than 1 second.
UAS	This is defined as N consecutive SES. Once unavailable, N consecutive seconds must pass without SES before coming available again. The value of N is TBD. In the FEND case this is 5 second granularity rather than 1 second.

MonitorTypeOntEth

Indicates the type of monitored parameter for a GPON Ethernet Port.

MonitorTypeOntEth Values	Description
ALIGNERR	OMCI: Alignment Error Counter RFC3635: dot3StatsAlignmentErrors
DEFERRED	OMCI: Deferred Transmission Counter RFC3635: dot3StatsDeferredTransmissions
FCSERROR	OMCI: FCS Error Counter RFC3635: dot3StatsFCSErrors
INBUFOVFL	OMCI: Buffer Overflows on Receive RFC2233: ifInDiscards
LATECOLL	OMCI: Late Collision Counter RFC3635: dot3StatsLateCollisions
OUTBUFOVFL	OMCI: Buffer Overflows on Transmit RFC2233: ifOutDiscards
RXINTERR	OMCI: Internal MAC Receive Error Counter RFC3635: dot3StatsInternalMacReceiveErrors
SQETEST	OMCI: SQE Counter RFC3635: dot3StatsSQETestErrors
TOOLONG	OMCI: FrameTooLongs RFC3635: dot3StatsFrameTooLongs
XSCOLL	OMCI: Excessive Collision Counter RFC3635: dot3StatsExcessiveCollisions

MonitorTypeSts

Indicates the type of monitored parameter in a STS1.

MonitorTypeSts Values	Description
CV-P	Coding violation count - path.
ES-P	Error second count - path.
FC-P	Failure count - path.
HECEC-P	HEC Error Count, path, ingress
INVVPVC-P	Invalid VPI/VCI count, path, ingress
PERU-PE	Percentage Utilization, path, egress
SES-P	Severely errored second count - path.
TCC-PE	Total Cell Count, path, egress
UAS-P	Unavailable second count - path.

MonitorTypeT1

Indicates the type of monitored parameter in a DS1 Path.

MonitorTypeT1 Values	Description
AISS-P	Alarm indication slip seconds count - path.
CSS-P	Control slip seconds count - path.
CV-L	Coding violation count - line.
CV-P	Coding violation count - path.
ES-L	Error second count - line.
ES-P	Error second count - path.
FC-P	Failure count - path.
INVVPVC-P	Invalid VPI/VCI count, path, ingress.
INVVPVC-PE	Invalid VPI/VCI count, path, egress.
LOSS-L	Loss of signal seconds count - line.
PERU-P	Percent Utilization, path, ingress.
PERU-PE	Percent Utilization, path, egress.
SAS-P	Severely errored framing second count - path. Near End: indicates the "severely errored framing second/AIS - path (SASP)
SEFS-P	Severely Errored Framing Second count - Path
SES-L	Severely errored second count - line.
SES-P	Severely errored second count - path.
TCC-P	Total Cell Count, path, ingress.
TCC-PE	Total Cell Count, path, egress.

UAS-P

Unavailable second count - path.

MonitorTypeT3

Indicates the type of monitored parameter in a DS3 Path.

MonitorTypeT3 Values	Description
AISS-P	Alarm indication signal seconds count - path.
AISS-PE	Alarm indication signal seconds count - egress path.
CV-L	Coding violation count - line.
CVCP-P	Coding violation count, DS3 CP-bit parity - path.
CVCP-PE	Coding violation count, DS3 CP-bit parity - egress path.
CVP-P	Coding violation count, DS3 P-Bit parity - path.
CVP-PE	Coding violation count, DS3 P-Bit parity - egress path.
DSCC	Discard cell count.
DSCC-E	Discard cell path - egress path.
ES-L	Error second count - line.
ES-PLCP	Errored second count PLCP.
ESCP-P	Errored second count, DS3 CP-bit parity - path.
ESCP-PE	Errored second count, DS3 CP-bit parity - egress path.
ESP-P	Errored second count, DS3 P-bit parity - path.
ESP-PE	Errored second count, DS3 P-bit parity - egress path.
FC-P	Failure count - path.
FC-PE	Failure counts - egress path.
FCCP-P	CP bit Path Failure Count (applies only for Far End).
FCCP-PE	CP bit Path Failure Count - egress path (applies only for Far End).
HECC	HEC Corrected cell count
HECC-E	HEC Corrected cell count - Egress
HECUC	HEC Uncorrected Cell count
HECUC-E	HEC Uncorrected Cell count - Egress
INVVPVC-P	INValid VPI/VCI count - Path
LCDS	Loss of Cell Delineation count.
LCDS-E	Loss of Cell Delineation count - Egress
LOSS-L	Loss of signal seconds count - line.
PERU-P	Percentage Utilization, path, ingress.
PERU-PE	Percentage Utilization, path, egress
SAS-P	Severely errored framing/Alarm indication signal second count - path.

SAS-PE	Severely errored framing/Alarm indication signal second count - egress path.
SASCP-P	CP Severely errored framing/Alarm indication signal second count - path (applies only for Far End).
SASCP-PE	CP Severely errored framing/Alarm indication signal second count correction - egress path (applies only for Far End).
SES-L	Severely errored second count - line.
SESCP-P	Severely errored second count, DS3 CP-bit parity - path.
SESCP-PE	Severely errored second count, DS3 CP-bit parity - egress path.
SESP-P	Severely errored second count, DS3 P-bit parity - path.
SESP-PE	Severely errored second count, DS3 P-bit parity - egress path.
TCC-P	Total Cell Count, path, ingress.
TCC-PE	Total Cell Count, path, egress.
UASCP-P	Unavailable second count, DS3 CP-bit parity - path.
UASCP-PE	Unavailable second count, DS3 CP-bit parity - egress path.
UASP-P	Unavailable second count, DS3 P-bit parity - path.
UASP-PE	Unavailable second count, DS3 P-bit parity - egress path.

MonitorTypeVidChan

No Comment Defined.

MonitorTypeVidChan Values	Description
HITS	No Comment Defined.
MINUTES	No Comment Defined.

MonitorTypeVpVc

The type of parameters which can be monitored on an virtual path or virtual circuit.

MonitorTypeVpVc Values	Description
CLP	Cell Loss Priority.
EPD	Early packet discard.

PPD	Partial packet discard.
RXCELL	Number of good cells - ingress direction.
RXDCELL	Number of dropped cells - ingress direction.
TCLP	Cells Tagged with CLP.
TXCELL	Number of good cells - egress direction.
TXDCELL	Number of dropped cells - egress direction.
UPCV	Usage Parameter Control Violations.

MountType

Mount Type. This describes how the Node of C7's is mounted, such as a Rack or Outdoor Cabinet.

To support display in iMS and CMS, six-shelf cabinets use a separate mount type corresponding to the "upper 5" vs "lower 1" shelf positions.

To support higher power requirements, some cabinets may be modified by adding or replacing a rectifier and fuse. Additionally, there is an option for an upgraded heat exchanger. These modifications are denoted by the extensions "PWRUPG" or "PWRUPGHX".

MountType Values	Description
ODC10	Out Door Cabinet 10.
ODC1000	Out Door Cabinet. One shelf High-Density.
ODC1000HIGHCAPHX	ODC-1000 with High-Capacity Heat Exchanger.
ODC120PWRUPGHX_LOWER1	Out Door Cabinet 120 with Power Upgrade and Heat Exchanger (bottom left-most shelf).
ODC120PWRUPGHX_UPPER5	Out Door Cabinet 120 with Power Upgrade and Heat Exchanger (upper and two lower shelves).
ODC120PWRUPG_LOWER1	Out Door Cabinet 120 with Power Upgrade (bottom left-most shelf).
ODC120PWRUPG_UPPER5	Out Door Cabinet 120 with Power Upgrade (upper and two lower shelves).
ODC120_LOWER1	Out Door Cabinet 120 (bottom left-most shelf).
ODC120_UPPER5	Out Door Cabinet 120 (upper and two lower shelves).
ODC20	Out Door Cabinet 20.
ODC2000	Out Door Cabinet. Two shelves High-Density.
ODC20PWRUPG	Out Door Cabinet 20 with Power Upgrade.
ODC20PWRUPGHX	Out Door Cabinet 20 with Power

	Upgrade and Heat Exchanger.
ODC3000	Out Door Cabinet. Three shelves High-Density.
ODC40	Out Door Cabinet 40.
ODC4000_LOWER1	Out Door Cabinet. Six shelves High-Density (bottom left-most shelf).
ODC4000_UPPER5	Out Door Cabinet. Six shelves High-Density (upper and two lower shelves).
ODC40PWRUPG	Out Door Cabinet 40 with Power Upgrade.
ODC40PWRUPGHX	Out Door Cabinet 40 with Power Upgrade and Heat Exchanger.
ODC80	Out Door Cabinet 80.
ODC80PWRUPG	Out Door Cabinet 80 with Power Upgrade.
ODC80PWRUPGHX	Out Door Cabinet 80 with Power Upgrade and Heat Exchanger.
RACK	Rack mounted.

Mtu

Max. Transmission Unit

Mtu Values	Description
{1518-9022}	Range Values

N200

This specifies the maximum number of retransmissions for a frame at Layer 2 using LAPD.

N200 Values	Description
{1-10}	Range of values.

NEType

The NE equipment type.

NEType Values	Description
OSTP	Optical Service Transport Platform.

NotificationAlm

The notification level of the alarm which is being raised within the system.

NotificationAlm Values	Description
CL	The alarm is being cleared.
CR	Critical Alarm.
MJ	Major Alarm.
MN	Minor Alarm.

NotificationConds

The alarm level which can be assigned to conditions within the C7 system.

NotificationConds Values	Description
CR	Critical Alarm.
MJ	Major Alarm.
MN	Minor Alarm.
NA	Not Alarmed.
NR	Not Reported.

NotificationInh

The alarm levels which can be inhibited. This means that the message of this alarm level will not be seen by the current user login session.

NotificationInh Values	Description
ALL	All alarms are to be inhibited or allowed.
CR	Critical Alarm.
DBCHG	DB Change.
MJ	Major Alarm.
MN	Minor Alarm.
NA	Not Alarmed.

NotificationInhNone

The alarm levels which can be inhibited. This means that the message of this alarm level will not be seen by the current user login session.

NotificationInhNone Values	Description

ALL	All alarms.
CR	Critical Alarms.
MJ	Major Alarms.
MN	Minor Alarms.
NA	Non-Alarmed Events.
NONE	None (All alarms/events inhibited in this session.)

NotificationLmt

The alarm level to be assigned.

NotificationLmt Values	Description
CR	Critical alarm.
NA	Not alarmed.

NotificationRtry

The notification level of a specific alarm which exists within the system.

NotificationRtry Values	Description
CR	Critical Alarm.
MJ	Major Alarm.
MN	Minor Alarm.

Nsg

Number of SiGnaling bits supported by a DS0 port.

Nsg Values	Description
0	Signaling bits disabled for clear channel operation on robbed-bit TDM transport links.
2	2 signaling bits as used the SF format used by D4 channel banks. DS0 Yellow and DS0 AIS are disabled.
3	A signaling scheme that carries more information than can be encoded in 2 signaling bits but less than what can be encoded in 4. This scheme is used in GR-8.
4	4 signaling bits supporting the DS0 Yellow and DS0 AIS codes. The codes used are those defined for GR303. This is the format used for internal

	transport of TR57 interfaces.
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OCN

OCn

This set is used for generic OC commands (such as ED- , ENT- and DLT-); elements are OC3, OC12, and OC48.

OCN Values	Description
OC12	OC12
OC3	OC3
OC48	OC48

OnOff

On / Off

OnOff Values	Description
OFF	Service requested if off.
ON	Service requested if on.

OntBatteryStatus

Battery Status.

OntBatteryStatus Values	Description
FAILED	Failed.
LOW	Low power.
MISSING	None present.
NORMAL	Normal.
NOTENABLED	Not Enabled.

OntEthVidTxMode

Used in association with ONT Ethernet ports to indicate the format used to transmit IPTV streams to customer Set Top Boxes via the ONT Ethernet port.

OntEthVidTxMode Values	Description
MCAST	Transmit the IPTV streams in multicast format.

UCAST	Transmit the IPTV streams in unicast format directed to the specific Set Top Boxes joined to the associated channel.
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OntPortPwrOpt

Use or override the system default of ONTRFVIDONBATT (for RFVID ONT ports) or ONTETHONBATT (for ETH ONT ports) to determine the backup power option for an ONT port. See ED-SYS.

OntPortPwrOpt Values	Description
DISABLE	Disable port on battery backup.
ENABLE	Enable port on battery backup.
USEDEF	Use System Default.

OntRfrStat

ONT RF Video Return Laser Status

OntRfrStat Values	Description
ACTIVE	Laser is active.
DISABLED	Laser is disabled.

OntSecurity

The type of Security used for an ONT.

OntSecurity Values	Description
CHURNING	Churning provides payload scrambling and offers a low level of protection for data confidentiality. Supported per Downstream VP from the OLT to the ONT.
NONE	None.

Option82

DHCP Option 82 - This feature adds a unique identifier in the relay agent information option.

The unique identifier enables an ISP to identify a subscriber, to assign specific actions to that subscriber and to trigger accounting.

Option82 Values	Description
DSLFORUM1	<p>DHCP Relay Agent Option 82 format, DSLFORUM1 (consistent with current WT-101 requirements)</p> <p>Circuit ID = "System-ID atm shelf-slot/port:vpi.vci" for ATM framed access.</p> <ul style="list-style-type: none"> • Remote ID= "NULL"
NONE	<p>The C7 DHCP Relay Agent will not append the Option 82 information when relaying client DHCP requests to the upstream DHCP Server.</p>
STND	<p>The value of STND corresponds to the STANDARD C7 DHCP Relay Agent Option 82 format. For software releases prior to 5.1 release, the Layer 2 Interface that a DHCP client request arrives on is always a VC that originates on the GE-2p's PP1 and terminates at the host's port. From R5.1 with packet services, the Layer 2 interface that a DHCP client request arrives on is a VB ConnId end-point. This format is comprised of two Sub-Options.</p> <p>The two Sub-Options of this format are:</p> <ul style="list-style-type: none"> • Circuit ID Sub-Option 1 whose body is the null terminated ASCII containing the AID of the VC endpoint originating on Ge-2p's PP1(pre-R5.1) or the AID of the VB ConnId endpoint. • Remote ID Sub-Option 2 whose body is the null terminated ASCII containing the AID of the VC endpoint terminating at the host's port

Option82Action

This is the action performed if a DHCP Packet with sub-option 1/2 content is received on a DHCP enabled, client-facing interface.

Option82Action Values	Description
DROP	Drop.
NONE	Pass through.
OVERWRITE	Overwrite the suboption 1/2 content.

OpType

GR303 Operations Processor Type

This indicates whether the Operations Processor is primary or secondary in its interface group.

OpType Values	Description

PRIOP	Primary Operations Processor. This operations processor is designated primary within its interface group.
SECOP	Secondary Operations Processor. This operations processor is designated secondary within its interface group.

Parity

The parity of the serial port.

Parity Values	Description
EVEN	Even parity.
NONE	No parity.
ODD	Odd parity.

PassFail

Pass/Fail indicator.

PassFail Values	Description
FAIL	Fail.
PASS	Pass.

PasswordChg

The number of day which the password is good for before the password need to be reset.

PasswordChg Values	Description
{0-999}-DAY	Number of days.

Path

This indicates information about the path for a line of cross-connect retrieval output.

Path Values	Description
BEST	Best effort. This is provided for CMS TL1 only, and not supported directly by C7.
BOTH	Both the working and protect paths.
PROT	The protect path.

UNPROT	An unprotected path.
WKG	The working path.

Pdom

Protection Domain. This is an integer that is used to associate a transport facility into a protection domain that is used for A to Z connection provisioning. The PDOM for each domain must be a unique non-zero integer. The value of 0 is reserved to indicate that the facility is not to be used for A to Z connections.

Pdom Values	Description
{0-10000}	Integer in specified range.

Percentage

An integer representing percentage.

Percentage Values	Description
{0-100}	percentage

Phase

This initialization may be applied at various levels of thoroughness, referred to as phases.

Phase Values	Description
COLDRESET	Resets the hardware and causes the processor to unconditionally execute the same routines as if the card was plugged in or shelf was powering up. It uses the existing database when initializing. This will be service affecting while the system re-initializes. This can be applied to a single processor, multiple processors, or the entire shelf.
COLDRESETOFDB	This completely deletes all provisioned data from the working database and resets the database to contain manufacturing default values. All hardware on the shelf will be restarted. Only the shelf AID is acceptable for this level of initialization. The backup database is not modified. This level of initialization should be restricted and is not recommended to be used.
WARMRESET	Warm reset. Resets the processor without re-initializing the hardware. When the equipment does not support this capability, the command will be rejected. Also, when a RAP card is warmreset only the transport section of the card will be reset.

PMDayStart

The start of the performance monitoring day.

PMDayStart Values	Description
{0-23}	The hour in the day based on 24 hour clock.

PMPerson

The period for which the performance monitoring threshold are to be applied.

PMPerson Values	Description
1-DAY	1-day period.
15-MIN	15-minute period.

PonDataRate

Usable Passive Optical Network Data Rate.

PonDataRate Values	Description
1200	Mbit/sec.
155	Mbit/sec.
2400	Mbit/sec.
622	Mbit/sec.

PonType

The type of the Passive Optical Network.

PonType Values	Description
BPON	Broadband PON.
GPON	Gigabit PON.

PoolId

Pool Identifier. The last field of the PoolAid is the PoolId.

PoolId Values	Description
{1-32000}	Identifies a pool.

PowerCat3Time

Power Category 3 - this is the provisional value for the amount of time to wait before powering down category 3 type equipment during a power failure.

PowerCat3Time Values	Description
{0-480}	Range of values in minutes.

PowerCategory

The C7 attempts to minimize power consumption during an A/C power failure (battery backup). Five minutes after a power failure (this time is user-provisionable, see ED-SHELF), the system will enter a power-save mode. Upon entering this mode, the C7 will progressively turn off the DSL cards.

To control this three power categories are defined:

Category 1 cards do not get shut down in power-save mode.

Category 2 cards get shut down after 2 hours. Presently no cards can be configured as Category 2.

Category 3 cards get shut down immediately.

RPOTS, DS1, DS3, and optical cards are always Category 1 and cannot be changed. ADSL cards are always Category 3. The user should be aware that DSL cards staying up during a power failure will increase power consumption and reduce battery life.

PowerCategory Values	Description
{1-3}	The power saving categories.

PppEncapsulation

The PPP protocol used by the CPE

PppEncapsulation Values	Description
ALL	Both PPPoA and PPPoE
PPPOA	Point-to-Point Protocol over ATM
PPPOE	Point-to-Point Protocol over Ethernet

PppoState

The state of the generated PPPoE session for PPPoA translations

PppoState Values	Description
CONNECTED	Connected.
CONN_LCPREQ	connected, PADS received, LCP configuration request sent to Access Concentrator.
CONN_PADT	PADT received; session terminating
DISC_PADI	DISC_PADI: disconnected, PADI broadcast
DISC_PADR	disconnected, PADO received and PADR sent.

PPPoESessionState

The current state of the session for a Host Record

PPPoESessionState Values	Description
DATA	The PRA has put the forwarding entries in place in the NP Subsystem, and the Host and AC are able to send data packets.
INVALID	Invalid Session State.
PADR	The Host has sent a PADR packet to the AC, but the AC has not yet responded.
PADS	The AC has sent a PADS packet to the Host, but the PRA has not yet put the forwarding entries in place in the NP Subsystem. This is a very short state, and it is unlikely to persist long enough to be displayed.

PrimaryState

Indicates the primary state and qualifier information of the entity.

PrimaryState Values	Description
IS-NR	In-service-normal. In Service means that the entity is available for providing its provisioned functions. Normal indicates that no service affecting conditions exist.
OOS-AU	Out Of Service-Autonomous. Out of service means that the entity is not available to provide any of its provisioned functions. The Autonomous qualifier means that it is out of service due to fault conditions. Since MA is not present it is administratively allowed to perform its functions.

OOS-AUMA	Out Of Service-AUtonomous and MAnagement. Out of service means that the entity is not available to provide any of its provisioned functions. The Autonomous qualifier means that fault conditions exist that would force it out of service. The Management qualifier means that it has been administratively placed out of service. An administratively suspended entity is not allowed to generate alarms.
OOS-MA	Out of service-management. Out of service means that the entity is not available to provide any of its provisioned functions. The Management qualifier means that it has been administratively placed out of service. An administratively suspended entity is not allowed to generate alarms.

PrimaryStateChg

Indicates the primary state which users wants the entity to transition into as a result of execution of the current command.

PrimaryStateChg Values	Description
IS	In service. The entity should transition into in service if possible after the execution of the command.
OOS	Out of service. The entity should transition into out of service if possible after the execution of the command.

PrioBits

PRIOrity BITS. 802.1q priority Bits policy.

PrioBits Values	Description
0	Priority 0.
1	Priority 1.
2	Priority 2.
3	Priority 3.
4	Priority 4.
5	Priority 5.
6	Priority 6.
7	Priority 7.
COPYPBITS	CopyPBITS is only valid for C-Tagged Frames and the PBITS are copied into the newly added S-Tag.

ProtClass

Protection Class.

ProtClass Values	Description
BR	Bridged protection.
UNBR	Unbridged protection. UNBR is applicable only to video services that don't use the class of service as either CBR or UBR.

ProtClassAny

Protection Class for use in ACT-PROTN.

ProtClassAny Values	Description
BR	Bridged protection.
DEFAULT	Default: for video crossconnects that don't use class of service as CBR or UBR, "UNBR" protection is applied. Otherwise "BR" protection is applied.
UNBR	Unbridged protection. UNBR is applicable only to video services that don't use the class of service as either CBR or UBR.

ProtnPriority

Indicates priority of equipment redundant switching to the protection plug-in being provisioned. The range is from 1 to 9. The value "1" is the highest priority and "9" is the lowest priority. A unit given priority 1 will pre-empt protection already in effect for units given lower priority. If two protected units are given the same priority then first failure stays protected regardless of additional failed units.

ProtnPriority Values	Description
{1-9}	Range of values.

ProtnSwDirection

Specifies the type of protection.

ProtnSwDirection Values	Description

BI	Bidirectional protection switching.
UNI	Unidirectional protection switching.

RateAdaptationMarginSeconds

Dynamic Rate Adaptation shift times

RateAdaptationMarginSeconds Values	Description
{0-16383}	The number of seconds for rate adaptation up/down shift.

RateAdaptationMode

ADSL Rate Adaptation Mode

RateAdaptationMode Values	Description
DYNAMIC	ADSL2 and ADSL2+ service types support dynamic rate adaptation, meaning they can change data rate without retrain.
INIT	Rate Adaptive at initialization only.

RateControl

Policing rate for the port in Megs. The default is 0, which implies full rate.

RateControl Values	Description
{0-1000}	Range of speed values.

RCVid

Relay C-VID. Used to translate the incoming local C-Tag for tagged frames arriving on this user-side port.

RCVid Values	Description
{2-4094}	Vlan Id.
DFLT	DeFauLT. Used in conjunction with Lc=DFLT. The relay C-Vid is not translated and will remain the same as the local C-Vid.
NONE	NONE. Used for single tagged switching; either promote a C-tagged frame to S-tagged frame (with

optional X-late) or simply add the S-Tag.

ReceiverState

Receiver State

ReceiverState Values	Description
OFFHOOK	Receiver is currently Off Hook
ONHOOK	Receiver is currently On Hook

RFReturnMode

Control the Mode of the RF-Return being utilized by the ONT. (Note that SCTE55-1 is the replacement standard for DVS-178 and SCTE55-2 is the replacement for DVS-167)

RFReturnMode Values	Description
SCTE55-1	SCTE 55-1 - The legacy standard used to cover the Out of Band (OOB) communication channel between the Video Headend on the STBs
SCTE55-2	SCTE 55-2: The legacy standard used to cover the Out of Band (OOB) communication channel between the Video Headend on the STBs

Rlp

The transmission level point (receive). This is the decibel value of the ratio of the power of a 1004 Hz signal at a point to the power of the same signal at a reference point on the digital side of the codec.

Equipment	Valid RTLP Values
RU2W, RPOTS, HU2W, HPOTS	-7.0 -> +3.0
HEBS, REBS	-3.5, 0
TO in 4wire mode	-9.0 -> +6.0
TO in 2wire mode	-9.0 -> +6.0

Rlp Values	Description
-0.5	dB.
-1.0	dB.
-1.5	dB.

-2.0	dB.
-2.5	dB.
-3.0	dB.
-3.5	dB.
-4.0	dB.
-4.5	dB.
-5.0	dB.
-5.5	dB.
-6.0	dB.
-6.5	dB.
-7.0	dB.
-7.5	dB.
-8.0	dB.
-8.5	dB.
-9.0	dB.
0.0	dB.
0.5	dB.
1.0	dB.
1.5	dB.
2.0	dB.
2.5	dB.
3.0	dB.
3.5	dB.
4.0	dB.
4.5	dB.
5.0	dB.
5.5	dB.
6.0	dB.
AUTO	The device is to automatically set the level to the correct value. If AUTO is set for either the transmit or receive TLP, the value for the other TLP will be ignored.

RmtDeviceType

Remote Device Type: This indicates the specific type of a Remote Device.

RmtDeviceType Values	Description
E4	Calix E4 Node.
E5	Calix E5 Node.
E5-2	Calix E5-2 Node.
F5	Calix F5Rmt Node.
FD	Calix FiberDrive Node.

OTHER	Other type of device.
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RoleType

Role that the IG would perform.

RoleType Values	Description
HDT	Host Data Terminal.
RDT	Remote Data Terminal.

Scope

This indicates information about the scope for a line of cross-connect retrieval output.

Scope Values	Description
NTWK	The cross-connects will be trace across domain boundaries.
SHELF	The cross-connects will be traced are local to a single shelf.

SecondaryState

Secondary state of the entity. Multiple values may be specified.

SecondaryState Values	Description
ADA	Automatically default assigned. This entity was automatically assigned default provisioning. Enter and Edit operations are permitted in the ADA service state and cause the state to be removed.
AINS	Automatic in service. Delay in transition to in service is pending the correction of off-normal conditions such as UEQ or FAF.
CRS	Cross Connected. Entity is currently supporting at least one cross-connection and cannot be deleted without deleting them.
DGN	Diagnose. The ADSL line is in initialization.
FAF	Facility failure. Assigned to a port when a problem has been detected with its associated facility.
FLT	Fault. Equipment entity is OOS because it is faulty or a circuit has fault along the path.
IDLE	Idle. Line is able to provides service but is currently idle.
LPBK	Loop back. Loop back activity is currently being

	performed.
MEA	Mismatch of equipment and attributes. Installed with improper equipment or improper attributes.
MT	Maintenance. Manually removed from service for maintenance activity. Alarm reporting is suppressed but ability to carry traffic is not. This allows diagnostic traffic. This state can only be entered with an RMV-(entity) command.
NBK	No backup. No backup for entity provisioned with backup.
PRI	Protection Release Inhibited. This entity is inhibited from release from protection.
PUA	Provisioning UnAvailable.
PWR	Power. Power management activated condition or an abnormal or defect in the power.
RDLD	Red lined. Entity can only be deleted by command with the proper specifications.
SB	Suspend Both, ie. Tx and Rx.
SDEE	Supported entity exist. Entity is currently supporting other entities and cannot be deleted without deleting the supported entities or without having special delete privileges.
SETH	Supported Ethernet Entity. Entity is currently associated with Ethernet entity, such as an LSwitch or VLan and cannot be deleted without removing the association.
SFFP	Supported Fast Facility Protection. Entity is currently supporting an FFP and cannot be deleted without deleting the FFP.
SGEO	Supporting entity outage. Entity is unable to provide service because an entity supporting it has an outage.
STBYC	Standby cold. Backed up entity is not synchronized. It may be in process of initializing or cannot initialize. If it cannot initialize then an additional SST qualifies.
STBYH	Standby hot. Entity is able to immediately take over from any one of the entities it is backing up (exception LAPD links are not switched hot during an equipment protection switch).
STBYI	Standby inhibited. The entity has another entity designated as its backup but protection switching has been inhibited. The STBYI state has a higher priority than the STBYC state. Result of INH-SWTOPROTN.
STBYS	Standby switched. Indicates standby entity has taken over role of backed up entity in a revertive system.
STMG	Supported Timing Reference. Entity is currently being used as a timing reference and cannot be

	deleted without first changing the timing reference to another entity.
SWTCH	Switching system activity. Removed from service because of switching system.
TS	Test. Testing activity for metallic testing.
UAS	Unassigned. Entity has not been assigned with the necessary provisioning data.
UEQ	Unequipped. Equipment entity does not have equipment present.
WRK	Working. This redundant entity is currently providing the provisioned service.

SecondaryStateChg

The only secondary service states which can be changed are redline and SB. The redline state indicates that the line cannot be deleted unless, redline is removed from the service state first. SB indicates that traffic in both the Tx and Rx directions should be suspended. It only applies when the PST is OOS.

SecondaryStateChg Values	Description
RDLD	Redlined.
RDLD-DEA	ReDLineD - DEActivate.
SB	Suspend Both, ie. Tx and Rx
SB-DEA	Suspend Both - DEActivate.

SecondaryStateChgSB

The only secondary service state which can be changed is SB. SB indicates that traffic in both the Tx and Rx directions should be suspended. It only applies when the PST is OOS.

SecondaryStateChgSB Values	Description
SB	Suspend Both, ie. Tx and Rx
SB-DEA	Suspend Both - DEActivate.

SecondsThreshRange

Number of Seconds Threshold Range.

SecondsThreshRange Values	Description
{1-65535}	Seconds.

ServiceEffect

This indicates the effect of the reported alarm on service.

ServiceEffect Values	Description
NSA	Non-Service affecting condition.
SA	Service affecting condition.

SES

This parameter specifies the minimum number of x occurrences of a defect within a second before a severely errored second is declared.

SES Values	Description
{10-9999}	Count of seconds.

SfpConnector

SfpConnector - Type of SFP connector

SfpConnector Values	Description
COPPER PIGTAIL	Copper Pigtail - type of SFP connector. Applies to GE ports only.
FIBERJACK	FiberJack - type of SFP connector. Applies to GE ports only.
HSSDC II	HSSDC II - type of SFP connector. Applies to GE ports only.
LC	LC - type of SFP connector. Applies to GE ports only.
MT-RJ	MT-RJ - type of SFP connector. Applies to GE ports only.
MU	MU - type of SFP connector. Applies to GE ports only.
OPTICAL PIGTAIL	Optical Pigtail - type of SFP connector. Applies to GE ports only.
SC	SC - type of SFP connector. Applies to GE ports only.
SG	SG - type of SFP connector. Applies to GE ports only.
UNKNOWN	Unknown SFP Connector Type. Applies to GE ports only.

SfpEncoding

SfpEncoding - Serial Encoding Algorithm. Currently applies to GE ports only

SfpEncoding Values	Description
4B5B	4B5B.
8B10B	8B10B
MANCHESTER	Manchester
NRZ	NRZ
UNSPECIFIED	Unspecified encoding algorithm.

SfpId

SfpId - Type of Serial Transceiver. Currently applies to GE ports only.

SfpId Values	Description
GBIC	GBIC
SFP	SFP transceiver
SOLDERED	SOLDERED - Module/connector soldered to motherboard.
UNKNOWN	Unknown or unspecified transceiver.

SfpState

SFP State - currently applies to GE ports only.

SfpState Values	Description
NORMAL	Normal
NOTSUPPORTED	Not Supported
UNEQUIPPED	Unequipped.

SfpTransComp

SfpTransComp - Transceiver Compatibility. Multiple values can be set simultaneously to indicate multi-compatibility.

SfpTransComp Values	Description
1000BASE-CX	Copper short run - currently applies to Ge ports only.
1000BASE-LX	short lambda multimode fiber - currently applies to

	Ge ports only.
1000BASE-SX	long lambda single/multimode fiber - currently applies to Ge ports only.
1000BASE-T	Copper Twisted Pair - currently applies to Ge ports only.
GPON-D2.4_U1.2	GPON: DS rate=2.4, US rate=1.2, Multi-mode long reach.
OC12MMSR	OC12MMSR - OC-12 multi-mode short reach
OC12SMIR	OC12SMIR - OC-12, single-mode inter. reach
OC12SMLR	OC12SMLR - OC-12, single-mode long reach
OC3MMSR	OC3MMSR - OC-3 multi-mode short reach
OC3SMIR	OC3SMIR - OC-3, single-mode inter. reach
OC3SMLR	OC3SMLR - OC-3, single-mode long reach
OC48MMSR	OC48MMSR - OC-48 multi-mode short reach
OC48SMIR	OC48SMIR - OC-48 single-mode inter. reach
OC48SMLR	OC48SMLR - OC-48, single-mode long reach

ShelfIgType

Shelf-based Interface Group Type

ShelfIgType Values	Description
GR303	GR303
H248	H.248
SIP	SIP
SIPVCG	SIP VCG
T1TG_IDT	T1TG IDT
T1TG_RDT	T1TG RDT
VCG	VCG

SipHostProto

SIP HOST PROTOcol.

Protocol to be used to obtain the IP address for the host for the SIP lines in the group.

SipHostProto Values	Description
DHCP	Each line host obtains an IP address for the lines it hosts. This is not applicable to VIPR-based lines.
LINE	Each line host has individual provisioning specifying how it is to obtain its own IP address(Not available for shared VOIP resource cards). This is not applicable to VIPR-based lines.

STATIC	Each line host is given an IP address through static provisioning based on a base IP address given to the group. This is not applicable to ONT lines.
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SipT0CallState

Call state of the SIP T0

SipT0CallState Values	Description
ACTIVE	There is a call up
BUSY	A busy or fast busy tone is being applied to the users line
DIALING	Collecting digits
DISABLED	The line is not provisioned
DISCONNECTED	No call active
DISCONNECTING	Processing a bye
HOLD	User has placed party on hold
IDLE	Phone is on hook
INVITE	Dialing is complete and Invite has been sent
RINGBACK	Ringback tone is being applied to users line
RINGING	Ring cycle is being applied to the customer line

SipT0HostProto

SIP T0 HOST PROTOcol.

Protocol to be used to obtain the IP address for the host for the SIP lines in the group.

SipT0HostProto Values	Description
DHCP	Line Host obtains unique IP address for this line. This is not applicable to VIPR-based lines.
GROUP	Line host obtains a shared IP address using the method specified for the line's SIP group.
STATIC	IP address is statically assigned through other parameters of this command. This is not applicable to VIPR-based lines.

SipT0ServiceState

Service state of SIP T0

SipT0ServiceState Values	Description
CONFIGDONE	Successfully downloaded config file from server
FAILINVITEAUTHENTICATION	Failed attempt to register
FAILINVITEICMPERR	Connectivity with SIP server may be lost.
FAILINVITESERVERCODE	Refer to RFC3261 SIP Error Codes
FAILINVITETCP	Connectivity with SIP server may be lost.
FAILINVITETIMEOUT	Connectivity with SIP server may be lost.
FAILREGAUTHENTICATION	Failed an attempt to register.
FAILREGICMPERR	Failed an attempt to register.
FAILREGSERVERCODE	Refer to RFC3261 SIP Error Codes
FAILREGTCP	Failed an attempt to register.
FAILREGTIMEOUT	Failed an attempt to register.
INSESSION	Line is in service, call processing is available.
NONE	Line is not configured
PORTNOTCONFIG	Could not download config file from server
REGISTERED	Line is in service, call processing is available.

SipT0VoipState

State of user

SipT0VoipState Values	Description
ACTIVE	Registered
FAULT	Failed authentication of user
INACTIVE	Not registered with server
INITIALIZING	Being configured

SnmpVersion

Snmp Protocol Version

SnmpVersion Values	Description
V1	Snmp Protocol Version V1
V2C	Snmp Protocol Version V2c
V3	Snmp Protocol Version V3

SnrMaxMargins

Maximum Signal to Noise Ratio (SNR).

If the Noise Margin is above this the modem attempts to reduce its power output to optimize its operation

SnrMaxMargins Values	Description
{0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31}	dB.

SnrMinMargins

Minimum Signal to Noise Ratio (SNR).

The SNR margin achieved is checked just prior to completing training. If the margin is less than the minimum acceptable noise margin, startup fails and is again attempted, with increased power output.

SnrMinMargins Values	Description
{-32,-31,-30,-29,-28,-27,-26,-25,-24,-23,-22,-21,-20,-19,-18,-17,-16,-15,-14,-13,-12,-11,-10,-9,-8,-7,-6,-5,-4,-3,-2,-1,0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15}	dB.

SnrTargetMargins

Signal to Noise Ratio (SNR).

This is the Noise Margin the modem must achieve with a BER of 10-7 or better to successfully complete initialization.

SnrTargetMargins Values	Description
{0-15}	dB.

Speed

Speed.

Speed Values	Description
10	10

100	100
1000	1000
AUTO	Automatic.

SshCipher

Encryption schemes supported by the C7 SSH (secure shell) manager.

SshCipher Values	Description
3DES	3DES
AES	AES
BLOWFISH	BLOWFISH
CAST	CAST

SshHash

Hashes, or MACs (Message Authentication Codes) supported by the C7 SSH (secure shell) server.

SshHash Values	Description
MD5	Message Digest 5
MD5-96	Message Digest 5, 96-bit
SHA1	Secure Hash Algorithm, Version 1
SHA1-96	Secure Hash Algorithm, Version 1, 96-bit

StagEthType

STAG ETH TYPE. Used to restamp Ethernet type field for legacy devices on Network-side ports.

StagEthType Values	Description
CTAG_8100	CTAG_8100
CTAG_9100	CTAG_9100
STAG_88A8	STAG_88A8

StopBits

The number of stop bits used for the serial port.

StopBits Values	Description
{1-2}	Number of stop bits.

StpPortRole

Role of the port participating in the Spanning Tree Protocol.

StpPortRole Values	Description
ALTERNATE	Port is alternate to root.
BACKUP	Port is back-up to designated.
DESIGNATED	Port is designated for the LAN.
DISABLED	Disabled Port Role.
ROOT	Port is the root.

StpPortState

State of the port participating in the Spanning Tree Protocol. A port may have one of the following three states: Discard, learning or forwarding.

StpPortState Values	Description
DISCARD	Discard.
FORWARDING	Forwarding
LEARNING	Learning

StpType

Spanning Tree Protocol Type.

StpType Values	Description
MSTP	Multiple Spanning Tree Protocol.
RSTP	Rapid Spanning Tree Protocol.

StsMap

Indicates the type of mapping supported by the STS-p SPE. This information is used to set the STS path C2 byte. It is also used to insure uniform ATM cell formatting within the STS path.

StsMap Values	Description
ASYNC	DS3 mapped to STS1 asynchronous.
ATMNNI	Asynchronous Transfer Mode Network to Network Interface. When the STS mapping is set to this value, the path must carry ATM cells in which the VP field of the header conforms to the 12-bit NNI

	format.
ATMUNI	Asynchronous Transfer Mode User to Network Interface. When the STS mapping is set to this value, the path must carry ATM cells in which the VP field of the header conforms to the 8-bit UNI format. This format should not be used on internal links.
PT	Pass Through. When the STS mapping is set to this value, the STS path is passed through rather than being terminated within the shelf. The C2 byte received on the ingress path is passed through to the C2 byte on the egress path.

STSN

STSn

This set is used for generic STS commands (such as ED- , ENT- and DLT-); elements are STS1, STS3C, STS12C, and STS48C.

STSN Values	Description
STS1	STS1
STS12C	STS12C
STS3C	STS3C
STS48C	STS48C

SwitchTo

This identifies the new synchronization reference that will be used.

SwitchTo Values	Description
INT	Source from Internal Clock. This is valid with all values of TimingReference. For a shelf, it causes free running operation for all values of TimingReference. For the Derived DS1s, it causes sourcing from the shelf's System Clock.
PRI	Source from Primary Timing Reference. For a shelf, invalid if TimingReference is EXTERNAL or FREERUN. For a Derived DS1, invalid if TimingReference is LINE or LOOP.
RAP	Source from optics on the RAP. For a shelf, this is never valid. For a Derived DS1, this may be specified with any value of TimingReference.
SEC	Source from Secondary Timing Reference. For a shelf, invalid if TimingReference is FREERUN, or LINE. For a Derived DS1, invalid if TimingReference is LINE or LOOP.

SwitchType

Indicate the type of switch which the GR-303 or GR-8 interface group will be connected to.

SwitchType Values	Description
5ESS	Lucent's 5ESS series switches.
DMS10	Nortel's DMS 10 switch.
DMS100	Nortel's DMS 100 switch.
EWSD	Siemens's class-5 switch.
GTD5	AG Communications's GTD5

SwtchCmd

Priority of the switch command to be initiated on the entity.

SwtchCmd Values	Description
FRCD	Forced switch. Switch traffic away from the entity identified by the AID. This over-rides any failures and prevents future failures from initiating a protection switch. Any manual switch in effect is overridden and cleared. This may be overridden only by a LOCKOUT command. This may be cleared by a "RLS-PROTNSW-xxx" command.
LOCKOUT	Lockout of switching. Lockout the entity identified by the AID from carrying active traffic. Makes the identified line inactive if it is not already. Prevents failures from initiating a switch. This is similar to the FRCD except that it is of higher priority and overrides any FRCD in effect as well. This can only be cleared by a "RLS-PROTNSW-xxx" command.
MAN	Manual switch. Switch traffic away from the entity identified by the AID, unless the entity being switched to has failed or a manual, forced or lockout switch is already in effect. This will be cleared by any subsequent protection switch caused by an autonomous failure of the entity being switched to. A subsequent FRCD or LOCKOUT overrides this. This state may be cleared by a "RLS-PROTNSW-xxx" command.

SyncCmd

Priority of the switch command to be initiated on the entity.

SyncCmd Values	Description
FRCD	Forced switch. Switch to the line identified in the AID. Over-rides a manual or a pre-existing forced switch if it contradicts the command. Upgrades a manual switch to forced if it agrees with the command. This command is over-ridden by failures and a lockout command. It must be cleared by a RLS-xxx command before manual switch requests will again be honored.
MAN	Manual switch. Switch to the line identified in the AID unless the line is failed or a forced or lockout switch is already in effect.

T1Map

This is the mapping of the payload to be performed at the T1 port

T1Map Values	Description
NA	Not Applicable. No mapping performed at T1 port.
NNI	Network to Network Interface. Fixed length packets are mapped to the ATM NNI format.
SEQ	SEQential. DS0 numbering with the DS0 number equal to the time slot number.
UNI	User to Network Interface. Fixed length packets are mapped to the ATM UNI format.

T1MapHdsl

This is the mapping of the payload to be performed for the transported T1

T1MapHdsl Values	Description
NA	Not Applicable. No mapping performed.
SEQ	SEQential. DS0 numbering with the DS0 number equal to the time slot number.

T1Pwr

This indicates whether a T1 line unit is to supply power to the line

T1Pwr Values	Description
SINK	The T1 unit is not to supply power. This is the required value for DS1 lines.
SOURCE	The T1 unit is to supply power.

T1TimingMode

Loop Timing Mode (T1 UNI or NNI, or IMA).

T1TimingMode Values	Description
LOOP	T1 port transmit timing is sourced from the corresponding T1 port receive recovered timing.
SOURCE	T1 port transmit timing is sourced from the C7 system timing

T1Type

This is the type of port to configure a port on a T1 line unit to.

T1Type Values	Description
DS1	Digital Signal 1. A format suitable for cross-office connections.
T1	T1. A format suitable for long-haul transmission.

T200

This specifies the maximum length of time in milliseconds that a data link layer entity will wait for acknowledgement of a transmitted frame. Range of values in steps of 50.

T200 Values	Description
100	Milliseconds.
150	Milliseconds.
200	Milliseconds.
250	Milliseconds.
300	Milliseconds.
350	Milliseconds.

T203

This specifies the maximum time in seconds that a data link is allowed to remain idle before verifying the path between the IDT and the RDT. Valid values in steps of 10.

T203 Values	Description
10	Seconds.
100	Seconds.

110	Seconds.
120	Seconds.
130	Seconds.
140	Seconds.
150	Seconds.
160	Seconds.
170	Seconds.
180	Seconds.
190	Seconds.
20	Seconds.
200	Seconds.
210	Seconds.
220	Seconds.
230	Seconds.
240	Seconds.
250	Seconds.
260	Seconds.
270	Seconds.
280	Seconds.
290	Seconds.
30	Seconds.
300	Seconds.
40	Seconds.
50	Seconds.
60	Seconds.
70	Seconds.
80	Seconds.
90	Seconds.

T303

Identifies time T303 used at Layer 3 for the TMC and defines the maximum length of time in milliseconds that the RDT will wait for a reply to a SETUP message. Range of values in steps of 500.

T303 Values	Description
1200	Milliseconds.
1700	Milliseconds.
2200	Milliseconds.
2700	Milliseconds.
3200	Milliseconds.
3700	Milliseconds.
4200	Milliseconds.

4700	Milliseconds.
700	Milliseconds.

T308

Identifies timer T308 used at Layer 3 and specifies the maximum length of time in seconds the RDT will wait for a reply to a RELEASE message.

T308 Values	Description
{2-5}	Range of values.

T396

Identifies timer T396. It specifies the length of time in milliseconds that the RDT will wait for a reply to a SETUP message following the initial expiration of time T303. Valid values in steps of 1000.

T396 Values	Description
10700	Milliseconds.
11700	Milliseconds.
12700	Milliseconds.
13700	Milliseconds.
14700	Milliseconds.
1700	Milliseconds.
2700	Milliseconds.
3700	Milliseconds.
4700	Milliseconds.
5700	Milliseconds.
6700	Milliseconds.
700	Milliseconds.
7700	Milliseconds.
8700	Milliseconds.
9700	Milliseconds.

T397

Identifies timer T397 used at Layer 3. It specifies the maximum length of time in seconds the RDT will wait for the IDT to acknowledge an INFORMATION message that indicated that a customer who had been generating a permanent signal has returned on-hook. Valid values in steps of 60.

T397 Values	Description

120	Seconds.
180	Seconds.
60	Seconds.

T3Interface

Type of interface being provided by the DS3.

T3Interface Values	Description
CCHAN	Clear channel.
M13	DS1 asynchronously mapped in DS3 channel.
NNI	ATM NNI.
UNI	ATM UNI.

Tagging

Tagging Properties of the VLAN port

Tagging Values	Description
DBLTAGGED	Ingress: Accept only Double Tagged Frames. All single or non tagged frames will be dropped. The outer VLAN Tag must match one of the VLAN ports or the packet will be dropped. The inner tag will be passed with the frame to the egress port for potential use. Egress: Transmit two tags. The outer tag is the VLAN port tag. The inner tag will be the tag that was passed with the frame. Enabling this option means that the entire port is Double Tagged.
DFLT	DFLT - if untagged packets arrive on this port, apply this VLAN ID. No more than one DFLT VLAN can be applied to a port.
TAGGED	TAGGED - accept only tagged packets. Untagged packets will be dropped

TimeOut

Time Out Interval. If there are no messages between the user and the C7 over the TMOUT interval, the session is logged off.

TimeOut Values	Description
{0-99}	Range of time in minutes.

TimeOutTesting

The amount of time the test should be established for. If the period of time expires, then if the test is still established it should be torn down.

TimeOutTesting Values	Description
{1-2400}	Amount of time in minutes test should be established.

Timing

Identifies timing supply.

Timing Values	Description
INT	Internal timing source. Use the NE system timing source.
LPD	Loop timed.

TimingReference

Timing Reference. Indicates the source of system timing.

TimingReference Values	Description
EXTERNAL	External timing source. Use an external timing source for system timing. If EXTERNAL is selected, then the EXT parameter (CC or DS1) is required to specify the source of the external timing. The PRI and SEC parameters are optional and may be used to specify the source for the timing output.
FREERUN	Free run. Internal timing should be free running. When FREERUN is specified, the EXT, PRI, and SEC parameters are ignored.
LINE	Line timing. System timing is to be derived from lines. If LINE is selected, then the PRI parameter is required to specify the primary system timing system. This may include both a working and protect line. The SEC parameter, if present, specifies a secondary timing system that is to be used if the primary system fails. The EXT parameter is used to specify which timing outputs are to be generated.

TimingState

This indicates which timing source is currently active.

TimingState Values	Description
FREERUN	Free run.
HOLDOVER	Hold over.
PRIMARY	Primary timing source.
SECONDARY	Secondary timing source.

Tlp

The transmission level point (transmit). This is the decibel value of the ratio of the power of a 1004 Hz signal at a point to the power of the same signal at a reference point on the digital side of the codec.

Equipment	Valid TTLP Values
RU2W, RPOTS, HU2W, HPOTS	-3.0 -> +7.0
HEBS, REBS	-3.5, 0
TO in 4wire mode	-6.0 -> +9.0
TO in 2wire mode	0.0 -> +9.0

Tlp Values	Description
-0.5	dB.
-1.0	dB.
-1.5	dB.
-2.0	dB.
-2.5	dB.
-3.0	dB.
-3.5	dB.
-4.0	dB.
-4.5	dB.
-5.0	dB.
-5.5	dB.
-6.0	dB.
0.0	dB.
0.5	dB.
1.0	dB.
1.5	dB.
2.0	dB.
2.5	dB.
3.0	dB.
3.5	dB.

4.0	dB.
4.5	dB.
5.0	dB.
5.5	dB.
6.0	dB.
6.5	dB.
7.0	dB.
7.5	dB.
8.0	dB.
8.5	dB.
9.0	dB.
AUTO	The device is to automatically set the level to the correct value. If AUTO is set for either the transmit or receive TLP, the value for the other TLP will be ignored.

TmgDS1Fmt

Timing DS1 Format.

This parameter indicates the format of the DS1 format timing signals.

TmgDS1Fmt Values	Description
ESFNS	Extended Superframe - With No Synchronous quality indication.
ESFSYNC	Extended Superframe - With Synchronous timing quality indication.
SF	Super Frame.
UF	Unframed.

TracerouteProtocol

This indicates the protocol to be used when sending traceroute probe packets.

TracerouteProtocol Values	Description
ICMP	ICMP
UDP	UDP

TrellisCoding

Trellis Coding is an encoding scheme for piggybacking bits onto the electrical signal on the

twisted pair. Turning on this parameter will improve the DSL system performance.

TrellisCoding Values	Description
DISABLED	Trellis Coding is disabled; DSL performance level to remain as is.
ENABLED	Trellis Coding is enabled; attempt to improve DSL system performance.

TstOntMetResult

Overall result of the TST-ONT-MET command.

TstOntMetResult Values	Description
FAIL	Test failed.
NOTCOMPLD	Test was incomplete.
OFFHOOK	Receiver is currently Off Hook
PASS	Test passed.

UpdPort

Range of valid UDP ports.

UpdPort Values	Description
{1-65535}	Port values.

UpStreamRate

Upstream Rate.

UpStreamRate Values	Description
{0-3072}	This parameter identifies the upstream rate in kilo bits per second. It must be a multiple of 32 kbps.

UserAuthMode

User Authentication Mode

UserAuthMode Values	Description

LOCAL	Authentication using local C7 User Database.
RADIUS	Authentication using "Remote Authentication Dial In User Service".

UserInterfaceType

User Interface Type.

UserInterfaceType Values	Description
CMS	Calix CMS.
CUP	Calix Upgrade Program.
IMS	Calix iMS.
TL1	TL1.

UserInterval

The interval in days that a password is valid.

UserInterval Values	Description
{0-999}	Range of values in days.

Validity

This indicate the validity of the performance monitoring count for a specified period. It indicates if the count is complete, partial, etc.

Validity Values	Description
ADJ	Data manully adjusted or initialized.
COMPL	Data accumulated over the entire time period.
INVLD	Invalid.
LONG	Data accumulated over greater than the entire time period.
NA	Data not available.
PRTL	Data accumulated over some portion of the time period.

VbPortDirection

This is an enumerated value indicating if an interface is both subscriber facing (downstream)and service provider facing (upstream) or only subscriber facing (downstream).

VbPortDirection Values	Description
BOTH	A direction attribute of an interface indicating the interface is directed towards both the subscriber (the network edge) and the service provider (the network core).
DOWN	DownStream - A direction attribute of an interface indicating the interface is directed towards the subscriber (the network edge).

VbPortType

VB PORT TYPE. Provider Port Type.

VbPortType Values	Description
NTWK	Network-side ports purely switch on tags. All network side ports are considered to be S-tagged upon arrival.
USER	User-side defines the provider bridged domain boundary. Any tagged frame received on a User-side port is considered a "customer" tag. All frames arriving on user-side port will have a tag pushed and popped on transmit.

VCRange

Range of VCs.

VCRange Values	Description
{32-65535}	Valid VCs.

Video16BitRange

Range used in some Video commands.

Video16BitRange Values	Description
{0-65535}	16-bit Range.

VideoBwcScope

This is used to retrieve the video subscribers in the system using a filter of FIXED or

VARIABLE.

VideoBwcScope Values	Description
FIXED	The pre release 5.0 method of switching video. Fixed Variable Rate. Subscriber channels are created large enough to hold the largest flow to the subscriber.
VARIABLE	Retrieves video subscribers that have variable bit rate services enabled.

VlanTag

Port VLAN Id.

VlanTag Values	Description
{2-4094}	Vlan Id
NONE	None

VodClntState

VOD Client State. This indicates the states that a VOD client may be in as viewed from the IRC.

VodClntState Values	Description
CLEANUP	When a VOD Client is deleted for any reason, it must clean up associated data records including multiple flows. This cannot happen immediately. Thus, a VOD Client may persist in the cleanup state for a brief period of time.
DOWN	The VOD Client is not answering the heartbeat messages from the IRC.
UP	The VOD Client is acknowledging the heartbeat messages from the IRC.

VodDstLuState

VOD Destination LU State. This indicates the states of the VOD Destination LU as viewed by the IRC.

VodDstLuState Values	Description
CLEANUP	When an VOD Destination LU is removed, all the

	VOD Internal Flow VCs on this LU must be removed and all the flows that terminated on this LU must be orphaned. The removal of the VOD Internal Flow VCs will result in an Abort of each effected flow. These operations can take some time. Thus, the VOD Destination LU may remain in this state for a brief time.
DOWN	The VOD Destination LU is not acknowledging heartbeat messages from the IRC.
UP	The VOD Destination LU is acknowledging heartbeat messages from the IRC.

VodFlowState

VOD Flow State. This indicates the states of a VOD flow as viewed by the IRC.

VodFlowState Values	Description
SETUP	The flow is being setup from the VOD server to the subscriber.
TEARDOWN	The flow is being torn down from the VOD server to the subscriber.
UP	The flow is up from the VOD server to the subscriber.

VodSrcLuState

VOD Source LU State. Indicates the state of the VOD Source LU as viewed by the IRC.

VodSrcLuState Values	Description
DOWN	The VOD Source LU is not acknowledging heartbeat messages from the IRC.
UP	The VOD Source LU is acknowledging heartbeat messages from the IRC.

VPRange

Range of VPs.

VPRange Values	Description
{0-4095}	Valid VPs.

VrpDataRate

When MODE = SCTE 55-2, this value controls the upstream rate for the RF-Return signal in kbit/sec.

VrpDataRate Values	Description
1544	The upstream rate for the RF-Return signal is 1544 kbit/sec.
256	The upstream rate for the RF-Return signal is 256 kbit/sec.
3088	The upstream rate for the RF-Return signal is 3088 kbit/sec.
UNKNOWN	The upstream rate for the RF-Return signal is UNKNOWN.

WaitToRestore

Indicates the number of minutes to wait after a entity has been restored before reverting to the working unit.

WaitToRestore Values	Description
{0-12}	Range of time in minutes.

XlanBw

Extended LAN BandWidth

XlanBw Values	Description
{1-21}	Number of STS1s.

Errors

Errors may be generated by any command or command response message. The format of an error message is as follows:

M sid date time
ctag DENY
<errcde>
/* <errmsg> */



Default Errors

Error Code (errcde)	Error Type	Error Message (errmsg)
EATN	EQUIPAGE	Not Valid for Access Type
ENAD	EQUIPAGE	Not Equipped with Audit Capability
ENAR	EQUIPAGE	Not Equipped with Automatic Reconfiguration
ENDG	EQUIPAGE	Not Equipped with Diagnostic Capability
ENDS	EQUIPAGE	Not Equipped with Duplex Switching
ENEA	EQUIPAGE	Not Equipped with Error Analysis Capability
ENEQ	EQUIPAGE	Not Equipped
ENEX	EQUIPAGE	Not Equipped with Exercise Capability
ENFL	EQUIPAGE	Not Equipped for Fault Locating
ENMD	EQUIPAGE	Not Equipped with Memory Device
ENNA	EQUIPAGE	Node not accessible
ENPM	EQUIPAGE	Not Equipped for Performance Monitoring
ENPS	EQUIPAGE	Not Equipped with Protection Switching
ENRI	EQUIPAGE	Not Equipped for Retrieving Specified Information
ENRS	EQUIPAGE	Not Equipped for Restoration
ENSA	EQUIPAGE	Not Equipped for Scheduling Audit
ENSI	EQUIPAGE	Not Equipped for Setting Specified Information
ENSS	EQUIPAGE	Not Equipped with Synchronization Switching
EQWT	EQUIPAGE	Invalid parameter, value
IBEX	INPUT	Block Extra
IBMS	INPUT	Block Missing
IBNC	INPUT	Block Not Consistent
ICNC	INPUT	Command 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 Error
IEAE	INPUT	Entity Already Exists

IENE	INPUT	Entity Does Not Exist
IIAC	INPUT	Invalid Access Identifier (AID)
IICM	INPUT	Invalid Command
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
INAC	INPUT	Access Number Not Correct
INDV	STATUS	Invalid AID
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	Syntax Invalid Character
ISPC	INPUT	Syntax Punctuation
ITSN	INPUT	Invalid/Inactive Test Session Number
MERR	STATUS	Multiple Error
PICC	PRIVILEGE	Illegal Command Code
PIFC	PRIVILEGE	Illegal Field Code
PIMA	PRIVILEGE	Invalid Memory Address
PIMF	PRIVILEGE	Invalid Memory File
PIRC	PRIVILEGE	Illegal Record Control
PIUC	PRIVILEGE	Illegal User Code
PIUI	PRIVILEGE	Illegal User Identity, invalid UID
PLNA	PRIVILEGE	Login Not Active
SAAL	STATUS	Already Allowed
SAAS	STATUS	Already Assigned
SABT	STATUS	ABORTED
SAIN	STATUS	Already Inhibited
SAIS	STATUS	Already In-Service
SAOP	STATUS	Already Operated
SAPR	STATUS	Already in Protection State
SARB	STATUS	All Resources Busy
SATF	STATUS	Automatic Test Failed
SCNA	STATUS	Command Not Able to be Aborted
SCNF	STATUS	Command Not Found
SDAS	STATUS	Diagnosis Already Started
SDFA	STATUS	Duplex Unit Failed
SDLD	STATUS	Duplex Unit Locked
SDNA	STATUS	Duplex Unit Not Available

SDNC	STATUS	Data not Consistent
SDNR	STATUS	Data Not Ready
SDNS	STATUS	Diagnosis Not Started Yet
SFAS	STATUS	Fault Locating Already Started
SFNS	STATUS	Fault Locating Not Started yet
SLBM	STATUS	List Below Minimum
SLEM	STATUS	List Exceeds Maximum
SLNS	STATUS	Log Not Started Yet
SNOS	STATUS	NTE is Out-of-Service
SNPR	STATUS	Not in Protection State
SNRM	STATUS	Systsem Not in Restoration Mode
SNSR	STATUS	No Switch Request Outstanding
SNVS	STATUS	Not Valid State
SPFA	STATUS	Protection Unit Failed
SPLD	STATUS	Protection Unit Locked
SPNA	STATUS	Process Not Able to be Aborted
SPNF	STATUS	Process Not Found
SRCI	STATUS	Requested Command(s) Inhibited
SROF	STATUS	Requested Operation Failed
SSRD	STATUS	Switch Request Denied
SSRE	STATUS	System Resources Exceeded
SSTP	STATUS	Stopped
STAB	STATUS	Test Aborted
SWFA	STATUS	Working Unit Failed
SWLD	STATUS	Working Unit Locked

Errors

Error Code (errcode)	Error Type	Error Message (errormsg)
EANS	EQUIPAGE	Access Not Supported
EFON	EQUIPAGE	Feature Option Not Provided
EN2T	EQUIPAGE	Not 2-Wire Terminate and Leave
ENAC	EQUIPAGE	Not Equipped with Alarm Cutoff
ENAT	EQUIPAGE	Request Not Valid for Access Type
ENFE	EQUIPAGE	Feature Not Provided
ENHN	EQUIPAGE	Not Hybrid Network
ENMB	EQUIPAGE	Not Multipoint Bridge
ENRE	EQUIPAGE	Not Recognized Equipage
ENSG	EQUIPAGE	Not Software Generic
ENTL	EQUIPAGE	Not Terminate and Leave
ERLC	EQUIPAGE	Red-Lined Circuit
ERNS	EQUIPAGE	RTU Does Not Support Command

ESPG	EQUIPAGE	Software Program
ETNS	EQUIPAGE	TSC Does Not Support Command
FNCR	FAULT	NE Failure - Circuit Restored to Last Condition - Monitor or Terminate
FNDT	FAULT	No Dial Tone Detected
FNEC	FAULT	NTE Has Lost 8-KHZ Byte Clock
FNSC	FAULT	NTE Has Lost 16-KHZ Byte Clock
FRCE	FAULT	RTU Component or Configuration Error
FRDA	FAULT	RTU Does Not Answer the Call
FREC	FAULT	RTU Eight KHZ Byte Clock Lost
FRNR	FAULT	RTU Does Not Reply
RABY	RESOURCE	All Taps Busy
RALB	RESOURCE	All Units of Requested Type are Busy
RANB	RESOURCE	Access Network Busy
RCBY	RESOURCE	Circuit Busy
RCIN	RESOURCE	Requested Circuit ID Does Not Exist
RNAN	RESOURCE	Requested NE Access Number Does Not Exist
RNAU	RESOURCE	Requested NE Access Number Unassigned
RNBY	RESOURCE	NE is Busy
RRCP	RESOURCE	Unit Specified by Routing Code Busy
RRNG	RESOURCE	Requested Changes Exceeds Range
RTBY	RESOURCE	Requested Tap Busy
RTEN	RESOURCE	Requested Tab Does Not Exist
RTUB	RESOURCE	Test Unit Busy
SACS	STATUS	Access Unit Can't Sync on Facility Signal
SADC	STATUS	Already Disconnected
SADS	STATUS	Access Unit in Diagnostic State
SAMS	STATUS	Already in Maintenance State
SAOS	STATUS	Already Out-of-Service
SAPF	STATUS	Access Path Continuity Check Failed
SCAT	STATUS	Circuit is Already Connected to Another Tap
SCBS	STATUS	Channel Busy
SCIS	STATUS	Circuit in Split Condition
SCNS	STATUS	Circuit Not in Split Condition
SCOS	STATUS	Channel Out-of-Service
SCSD	STATUS	Can't Split DS0B Circuit
SCSN	STATUS	Invalid Command Sequence
SDBE	STATUS	Internal Data Base Error

SEOS	STATUS	NTE is Out-of-Service
SFYA	STATUS	Facility Reports Yellow Alarm
SLOS	STATUS	TSC to RTU Link Out of Service
SNCC	STATUS	Not Cross-Connected
SNCN	STATUS	NTE Unable to Execute Command
SNDS	STATUS	NTE is in a Diagnostic State
SNIM	STATUS	NTE Access Complete, Circuit was in Monitor State
SNIS	STATUS	Not in Service
SNML	STATUS	No Monitor Line Established
SNNB	STATUS	NTE Could Not Sync on DS0B Signal
SNNS	STATUS	NTE Could Not Sync on DS1 Signal
SNRS	STATUS	Not Reserved
SNYA	STATUS	NTE has Detected a Yellow Alarm
SOSE	STATUS	Operating System Error
SOST	STATUS	Out-of-Service, Testing
SRAC	STATUS	Requested Access Configuration is Invalid
SRAN	STATUS	Unable to Release Access System
SRCN	STATUS	Requested Condition Already Exists
SROS	STATUS	Required RTU Out of Service
SRQN	STATUS	Invalid Request
SRTN	STATUS	Unable to Release Tap
SRTO	STATUS	Reply Timeout Occurred
SSCE	STATUS	Systemic (SNIDER) Communications Error
SSNG	STATUS	Subrate Selected is Incorrect
SSNP	STATUS	Test Signal Not Pseudo-Random
SSNQ	STATUS	Test Signal Not QRS
SSPN	STATUS	Speed Selected is Incorrect
STLC	STATUS	Tap Unable to Locate Channel
STNO	STATUS	TSC/RTU to TAU Link Out of service
STOS	STATUS	Test Access Unit Out of Service
STTI	STATUS	Tap Idle

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