TL1 Command Components

Note The terms "Unidirectional Path Switched Ring" and "UPSR" may appear in Cisco literature. These terms do not refer to using Cisco ONS 15xxx products in a unidirectional path switched ring configuration. Rather, these terms, as well as "Path Protected Mesh Network" and "PPMN," refer generally to Cisco's path protection feature, which may be used in any topological network configuration. Cisco does not recommend using its path protection feature in any particular topological network configuration.

This chapter describes the components of TL1 commands and autonomous messages for the Cisco ONS 15454, 15327, 15600, 15310-CL, Release 5.0, including:

- TL1 default values
- Modifier support by platform
- Starting positions for an STS-Mc SPE
- Access identifiers (AIDs)
- Parameter Notes

4.1 TL1 Default Values

4.1.1 BLSR

Table 4-1 BLSR Default Values

BLSR	Default
RVRTV	Y
RVTM	5.0 minutes
SRVRTV	Y
SRVTM	5.0 minutes

4.1.2 Cross Connections

Table 4-2 Cross Connections Default Values

Cross Connections	Default
CCT	2WAY for both STSp and VT1 cross-connections

4.1.3 Environment Alarms and Controls

Table 4-3 Environment Alarms and Controls Default Values

Environment Alarms and Controls	Default
OPR-EXT-CONT	CONTTYPE is set as one provisioned in the respective AID, there is not default for it. It is only used as a filter if entered. DUR is always taken as CONT.
RTRV-ATTR-CONT	There is no default for CONTTYPE. It is only used as a filter if entered.
RTRV-ATTR-ENV	There is no default for both NTFCNCDE and ALMTYPE, which are only used as filters if entered.
RTRV-EXT-CONT	CONTTYPE defaults to the conttype associated with the AID.
SET-ATTR-ENV	NTFCNCDE defaults to NR. ALMTYPE defaults to NULL. ALMMSG defaults to \“Env Alarm Input 1\”.

4.1.4 Equipment

Table 4-4 Equipment Default Values

Equipment	Default
ALW-SWTOPROTN-EQPT, INH-SWTOPROTN-EQPT and ALW-SWTOWKG-EQPT, ING-SWTOWKG-EQPT	DIRN defaults to BTH
ENT-EQPT	PROTID, PRTYPE, RVRTV and RVTM defaults to NULL
SW-DX-EQPT	MODE defaults to NORM
SW-TOPROTN-EQPT and SW-TOWKG-EQPT	MODE defaults to NORM DIRN defaults to BTH

4.1.5 Performance

Table 4-5 Performance Default Values

Performance	Default
INIT-REG-<MOD2>	LOCN defaults to NEND (near end)
RTRV-PM-<MOD2>	LOCN defaults to NEND TMPER defaults to 15 minutes
RTRV-TH-<MOD2>	MONTYPE defaults to CVL for OCN, EC1, and DSN MONTYPE defaults to ESP for STSp MONTYPE defaults to UASV for VT1 MONTYPE defaults to AISSP for the DS1 layer of the DS3XM card LOCN defaults to NEND TMPER defaults to 15 minutes
SET-PMMODE-<STS_PATH>	PMSTATE defaults to ON
SET-TH-<MOD2>	LOCN defaults to NEND TMPER defaults to 15 minutes

4.1.6 Ports

Table 4-6 Ports Default Values

Ports	Default
OCN Line	DCC defaults to N TMGREF defaults to N SYNCMSG defaults to Y SENDDUS defaults to N PJMON defaults to 0 SFBER defaults to 1E-4 SDBER defaults to 1E-7 MODE defaults to SONET PST defaults to OOS
EC1 Line	PJMON defaults to 0 (zero) LBO defaults to 0-225 RXEQUAL is Y PST defaults to defaults to OOS
T1 Line (DS1/DS1N)	LINECDE defaults to AMI FMT defaults to D4 LBO defaults to 0-133 PST defaults to OOS
T3 Line (DS3, DS3E, DS3NE, DS3XM)	DS3/T3 LINECDE defaults to 0-225 DS3 PST defaults to OOS DS3E/DS3NE FMT defaults to UNFRAMED DS3E/DS3NE LINECDE defaults to B3ZS DS3E/DS3NE LBO defaults to 0-225 DS3 of DS3XM PST defaults to OOS

4.1.7 SONET Line Protection

Table 4-7 SONET Line Protection Default Values

SONET Line Protection	Default
EX-SW-<OCN>	ST (switch type) is optional and for BLSR protection switch only ST defaults to BLSR RING switch type
OCN Line Protection	PROTID defaults to the protecting port of the protection group (SLOT-#(OCN)PORT-#). It is a string that can have a maximum length of 32 characters RVRTV defaults to N (non-revertive mode) RVTM defaults to 5.0 minutes PSDIRN defaults to UNI
OPR-PROTNSW-<OCN>	ST (switch type) is optional and for BLSR protection switch only ST defaults to BLSR RING switch type

4.1.8 STS and VT Paths

Table 4-8 STS and VT Paths Default Values

STS and VT Paths	Default
STS Path	SFBER, SDBER, RVRTV, and RVTM apply to path protection STS paths only SFBER defaults to 1E-4 SDBER defaults to 1E-6 RVRTV defaults to N RVTM defaults to empty because RVRTV is N when path protection STSp is created J1 is implemented on DS1, DS1N, DS3, DS3E, DS3NE, DS3XM, EC1, OC3, OC48AS AND OC192 cards TRCMODE defaults to the OFF mode EXPTRC defaults to a copy of the provisioned string or NULL when TRCMODE is OFF mode EXPTRC defaults to the user entered string when the TRCMODE is MANUAL mode EXPTRC defaults to a copy of the acquired received string or NULL if the string has not been acquired when the TRCMODE is AUTO mode INCTRC defaults to the incoming string (NULL) when the TRCMODE is under OFF mode INCTRC defaults to a copy of the received string or NULL if the string has not been received when the TRCMODE is under MANUAL or AUTO mode
VT Path	RVRTV, RVTM apply to path protection VT paths only RVRTV defaults to N RVTM defaults to empty because RVRTV is N when path protection VT1 is created

4.1.9 Synchronization

Table 4-9 Synchronization Default Values

Synchronization	Default
BITS	LINECDE defaults to B8ZS FMT defaults to ESF SYNCMSG defaults to Y PST defaults to OOS
NE-SYNCN	TMMDE defaults to EXTERNAL SSMGEN defaults to GEN1 QRES defaults to SAME-AS-DUS RVRTV defaults to Y RVTM defaults to 5.0 minutes
SYNCN	PRI/SEC QREF defaults to PRS PRI STATUS defaults to ACT SEC STATUS defaults to STBY THIRD QREF defaults to ST3 STATUS defaults to STBY

4.1.10 Testing

Table 4-10 Testing Default Values

Testing	Default
OPR-LPBK	LPBKTYPE defaults to FACILITY
RLS-LPBK	LPBKTYPE defaults to current existing loopback type

4.2 Modifier Support by Platform

Table 4-11 details the TL1 modifiers supported on the ONS SONET 15454, 15327, 15310-CL, and 15600 for commands that have carets (< >) in part of their input format; for example, RTRV-<OCN_TYPE>. A “Yes” in the platform column indicates that a particular modifier is supported in that platform. A “No” in the platform column indicates that a particular modifier is not supported in that platform. A “—” indicates that a particular modifier is not applicable to that platform.

Table 4-11 Modifier Support

Modifier	ONS 15454	ONS 15327	ONS 15310-CL	ONS 15600
DS1	Yes	—	—	—
EC1	Yes	—	Yes	—
T1	Yes	Yes	Yes	—
T3	Yes	Yes	Yes	—
VT1	Yes	Yes	Yes	—

Table 4-11 Modifier Support (continued)

Modifier	ONS 15454	ONS 15327	ONS 15310-CL	ONS 15600
STS1	Yes	Yes	Yes	Yes
STS3C	Yes	Yes	Yes	Yes
STS6C	Yes	Yes	Yes	No
STS9C	Yes	Yes	Yes	No
STS12C	Yes	Yes	Yes	Yes
STS24C	Yes	Yes	No	No
STS48C	Yes	Yes	No	Yes
STS192C	Yes	No	No	Yes
OC3	Yes	Yes	Yes	—
OC12	Yes	Yes	Yes	—
OC48	Yes	Yes	No	Yes
OC192	Yes	No	No	Yes
G1000	Yes	Yes	No	—
GIGE	Yes	No	No	—
FSTE	Yes	No	Yes	—
POS	Yes	No	Yes	—
E100	Yes	Yes	No	—
E1000	Yes	Yes	No	—
CLNT	Yes	No	No	—
OCH	Yes	No	No	—
OMS	No	—	—	—
OTS	No	—	—	—

4.3 Starting Positions for an STS-Mc SPE

Table 4-12, Table 4-13, and Table 4-14 list possible starting positions for the ONS 15454, ONS 15327, ONS 15310-CL and ONS 15600 STS-Mc SPE. In each of the tables a "Y" indicates "Yes, this position is supported" and an "N" indicates, "No, this position is not supported". More information about the generic NE support requirement can be found in *GR-253-CORE: Synchronous Optical Network (SONET) Transport Systems: Common Generic Criteria*.

Table 4-12 Starting Positions for an STS-Mc SPE in an OC-12 Signal

STS-1 Number	STS-3c SPE	STS-6c SPE	STS-9c SPE	STS-12c SPE
1	Y	Y	Y	Y
4	Y	Y	Y	N
7	Y	Y	N	N
10	Y	N	Y	N

Table 4-13 Starting Positions for an STS-Mc SPE in an OC-48 Signal

STS-1 Number	STS-3c SPE	STS-6c SPE	STS-9c SPE	STS-12c SPE	STS-24c SPE	STS-48c SPE
1	Y	Y	Y	Y	Y	Y
4	Y	Y	Y	N	Y	N
7	Y	Y	N	N	Y	N
10	Y	N	Y	N	Y	N
13	Y	Y	Y	Y	Y	N
16	Y	Y	Y	N	Y	N
19	Y	Y	Y	N	Y	N
22	Y	N	N	N	Y	N
25	Y	Y	Y	Y	Y	N
28	Y	Y	Y	N	N	N
31	Y	Y	N	N	N	N
34	Y	N	N	N	N	N
37	Y	Y	Y	Y	N	N
40	Y	Y	Y	N	N	N
43	Y	Y	N	N	N	N
46	Y	N	Y	N	N	N

Table 4-14 Starting positions for an STS-Mc SPE in an OC-192 Signal

STS-1 Number	STS-3c SPE	STS-6c SPE	STS-9c SPE	STS-12c SPE	STS-24c SPE	STS-48c SPE	STS-192c SPE
1	Y	Y	Y	Y	Y	Y	Y
4	Y	Y	Y	N	N	N	N
7	Y	Y	N	N	N	N	N
10	Y	N	Y	N	N	N	N
13	Y	Y	Y	Y	N	N	N
16	Y	Y	Y	N	N	N	N
19	Y	Y	Y	N	N	N	N
22	Y	N	N	N	N	N	N
25	Y	Y	Y	Y	N	N	N
28	Y	Y	Y	N	N	N	N
31	Y	Y	N	N	N	N	N
34	Y	N	N	N	N	N	N
37	Y	Y	Y	Y	N	N	N
40	Y	Y	Y	N	N	N	N
43	Y	Y	N	N	N	N	N

Table 4-14 Starting positions for an STS-Mc SPE in an OC-192 Signal (continued)

STS-1 Number	STS-3c SPE	STS-6c SPE	STS-9c SPE	STS-12c SPE	STS-24c SPE	STS-48c SPE	STS-192c SPE
46	Y	N	Y	N	N	N	N
49	Y	Y	Y	Y	Y	Y	N
52	Y	Y	Y	N	N	N	N
55	Y	Y	Y	N	N	N	N
58	Y	N	N	N	N	N	N
61	Y	Y	Y	Y	N	N	N
64	Y	Y	Y	N	N	N	N
67	Y	Y	N	N	N	N	N
70	Y	N	N	N	N	N	N
73	Y	Y	Y	Y	N	N	N
76	Y	Y	Y	N	N	N	N
79	Y	Y	N	N	N	N	N
82	Y	N	Y	N	N	N	N
85	Y	Y	Y	Y	N	N	N
88	Y	Y	Y	N	N	N	N
91	Y	Y	Y	N	N	N	N
94	Y	N	N	N	N	N	N
97	Y	Y	Y	Y	Y	Y	N
100	Y	Y	Y	N	N	N	N
103	Y	Y	N	N	N	N	N
106	Y	N	N	N	N	N	N
109	Y	Y	Y	Y	N	N	N
112	Y	Y	Y	N	N	N	N
115	Y	Y	N	N	N	N	N
118	Y	N	Y	N	N	N	N
121	Y	Y	Y	Y	N	N	N
124	Y	Y	Y	N	N	N	N
127	Y	Y	Y	N	N	N	N
130	Y	N	N	N	N	N	N
133	Y	Y	Y	Y	N	N	N
136	Y	Y	Y	N	N	N	N
139	Y	Y	N	N	N	N	N
142	Y	N	N	N	N	Y	N
145	Y	Y	Y	Y	Y	N	N
148	Y	Y	Y	N	N	N	N

Table 4-14 Starting positions for an STS-Mc SPE in an OC-192 Signal (continued)

STS-1 Number	STS-3c SPE	STS-6c SPE	STS-9c SPE	STS-12c SPE	STS-24c SPE	STS-48c SPE	STS-192c SPE
151	Y	Y	N	N	N	N	N
154	Y	N	Y	N	N	N	N
157	Y	Y	Y	Y	N	N	N
160	Y	Y	Y	N	N	N	N
163	Y	Y	Y	N	N	N	N
166	Y	N	N	N	N	N	N
169	Y	Y	Y	Y	N	N	N
172	Y	Y	Y	N	N	N	N
175	Y	Y	N	N	N	N	N
178	Y	N	N	N	N	N	N
181	Y	Y	Y	Y	N	N	N
184	Y	Y	Y	N	N	N	N
187	Y	Y	N	N	N	N	N
190	Y	N	Y	N	N	N	N

4.4 Conditions

Conditions include any problem detected on an ONS 15454, 15327, 15310-CL, and 15600 shelf. They can include standing or transient, notifications. A snapshot of all current raised, standing conditions on the network, node, or card can be retrieved in the CTC Conditions window or using the RTRV-COND commands. (In addition, some but not all cleared conditions are also found in the History tab.)

Table 4-15 Conditions

Condition	Description
AIS	Alarm Indication Signal
AIS-L	Alarm Indication Signal - Line
AIS-P	Alarm Indication Signal - Path
AIS-V	Alarm Indication Signal - VT
ALS	Automatic Laser Shutdown
APC-DISABLED	Automatic Power Control Disabled
APC-FAIL	Automatic Power Control Failure
APSB	Byte Failure
APSC-IMP	Improper APS Code
APSCDFLTK	Default K Byte
APSCINCON	Inconsistent APS Code
APSCM	Protection Switching Channel Match Failure

Table 4-15 Conditions (continued)

Condition	Description
APSCNMIS	Node Id Mismatch
APSIMP	APS Invalid Mode
APSMM	Automatic Protection Switch Mode Mismatch
AS-CMD	Alarms Suppressed By User Command
AS-MT	Alarms Suppressed For Maintenance
AU-LOF	LOF - Administration Unit - Loss of Multi Frame
AUD-LOG-LOSS	Audit Log 100 Percent Full - Oldest records will be lost
AUD-LOG-LOW	Audit Log 80 Percent Full
AUTOLSROFF	Automatic Laser Shutoff Due To High Temperature
AUTORESET	Automatic System Reset
AUTOSW-AIS	Automatic path protection Switch Caused By AIS
AUTOSW-LOP	Automatic path protection Switch Caused By LOP
AUTOSW-PDI	Automatic path protection Switch Caused By PDI
AUTOSW-SDBER	Automatic path protection Switch Caused By SDBER
AUTOSW-SFBER	Automatic path protection Switch Caused By SFBER
AUTOSW-UNEQ	Automatic path protection Switch Caused By UNEQ
BAT-FAIL	Battery Failure
BKUPMEMP	Primary Non-Volatile Backup Memory Failure
BLSROSYNC	BLSR Out Of Sync
CARLOSS	Carrier Loss On The LAN
CKTDOWN	Signaling Unable to setup circuit
CLDRESTART	Cold Restart
COMIOXC	IO Slot To XCON Communication Failure
COMM-FAIL	Plug-in Module Communication Failure
CONTBUS-A-18	TCC A To DCC A Processor Communication Failure
CONTBUS-B-18	TCC B To DCC B Processor Communication Failure
CONTBUS_A	Controller A To Shelf Slot Communication Failure
CONTBUS_B	Controller B To Shelf Slot Communication Failure
CTNEQPT-MISMATCH	Connection Equipment Mismatch
CTNEQPT-PBPROT	Interconnection Equipment Failure - Protect XC Payload Bus
CTNEQPT-PBWORK	Interconnection Equipment Failure - Working XC Payload Bus
DATAFLT	Software Fault - Data Integrity Fault
DBOSYNC	Standby Database Out of Sync
DS3-MISM	DS3 Frame Format Mismatch
DSP-COMM-FAIL	DSP Communication Failure

Table 4-15 Conditions (continued)

Condition	Description
DSP-FAIL	DSP Failure
DUP-IPADDR	IP address already in use within the same DCC Area
DUP-NODENAME	Node name already in use within the same DCC Area
E-W-MISMATCH	Both Ends Of Fiber Provisioned As East Or Both As West
EHIBATVG	Extreme High Volt
ELWBATVG	Extreme Low Volt
EOC	SDCC Termination Failure
EOC-L	Line DCC Termination Failure
EQPT	Equipment Failure
EQPT-MISS	Replaceable Equipment/Unit is Missing
ERFI-P-CONN	Enhanced Remote Failure Indication - Path - Connectivity
ERFI-P-PAYLD	Enhanced Remote Failure Indication - Path - Payload
ERFI-P-SRVR	Enhanced Remote Failure Indication - Path - Server
ERROR-CONFIG	Error in Startup Config
ETH-LINKLOSS	Rear Panel Ethernet Link Removed
EXCCOL	Excess Collisions On The LAN
EXERCISE-RING-FAIL	Exercise Request on Ring Failed
EXERCISE-RING-REQ	Exercise Request on Ring
EXERCISE-SPAN-FAIL	Exercise Request on Span Failed
EXERCISE-SPAN-REQ	Exercise Request on Span
EXT	Failure Detected External To The NE
EXTRA-TRAF-PREEMPT	Extra Traffic Preempted
FAILTOSW	Failure To Switch To Protection
FAILTOSW-PATH	Failure To Switch To Protection - Path
FAILTOSWR	Failure To Switch To Protection - Ring
FAILTOSWS	Failure To Switch To Protection - Span
FAN	Fan Failure
FANDEGRADE	Partial Fan Failure
FE-AIS	Far End AIS
FE-DS1-MULTLOS	Far End Multiple DS1 LOS Detected On DS3
FE-DS1-NSA	Far End DS1 Equipment Failure - Non Service Affecting
FE-DS1-SA	Far End DS1 Equipment Failure - Service Affecting
FE-DS1-SNGLLOS	Far End Single DS1 LOS
FE-DS3-NSA	Far End DS3 Equipment Failure - Non Service Affecting
FE-DS3-SA	Far End DS3 Equipment Failure - Service Affecting

Table 4-15 Conditions (continued)

Condition	Description
FE-EQPT-NSA	Far End Common Equipment Failure - Non Service Affecting
FE-EXERCISING-RING	Far End Exercising Ring
FE-EXERCISING-SPAN	Far End Exercising Span
FE-FRCDWKSWPR-RING	Far End Working Facility Forced To Switch To Protection - Ring
FE-FRCDWKSWPR-SPAN	Far End Working Facility Forced To Switch To Protection - Span
FE-IDLE	Far End IDLE
FE-LOCKOUTOFPR-SPAN	Far End Lockout Of Protection - Span
FE-LOF	Far End LOF
FE-LOS	Far End LOS
FE-MANWKSWPR-RING	Far End Manual Switch Of Working Facility To Protection - Ring
FE-MANWKSWPR-SPAN	Far End Manual Switch Of Working Facility To Protection - Span
FEC-MISM	FEC Mismatch
FEPRLF	Far End Protection Line Failure
FORCED-REQ	Forced Switch Request
FORCED-REQ-RING	Forced Switch Request On Ring
FORCED-REQ-SPAN	Forced Switch Request On Span
FRCDSWTOINT	Forced Switch To Internal Clock
FRCDSWTOPRI	Forced Switch To Primary Reference
FRCDSWTOSEC	Forced Switch To Second Reference
FRCDSWTOTHIRD	Forced Switch To Third Reference
FRNGSYNC	Free Running Synchronization Mode
FSTSYNC	Fast Start Synchronization Mode
FULLPASSTHR-BI	Bidirectional Full Pass Through Is Active
GCC-EOC	GCC Termination Failure
GE-OOSYNC	GigaBit Ethernet Out of Sync
HI-LASERBIAS	Equipment High Laser Bias
HI-RXPOWER	Equipment High Rx power
HI-TXPOWER	Equipment High Tx power
HIBATVG	High Volt
HITEMP	High Temperature
HLDOVRSYNC	Holdover Synchronization Mode
I-HITEMP	Industrial High Temperature

Table 4-15 Conditions (continued)

Condition	Description
IMPROPRMVL	Improper Removal
INC-GFP-OUTOFFRAME	Out Of Frame Detected by GFP Receiver
INC-GFP-SIGLOSS	Client Signal Loss Frames Detected by GFP Receiver
INC-ISD	DS3 Idle Condition
INC-SIGLOSS	Incoming Signal Loss on Fibre Channel Interface
INC-SYNCLOSS	Incoming Synchronization Loss on Fibre Channel Interface
INC_GFP_SYNCLOSS	Client Synchronization Loss Frames Detected by GFP Receiver
INHSWPR	Inhibit Switch To Protect Request On Equipment
INHSWWKG	Inhibit Switch To Working Request On Equipment
INTRUSION-PSWD	Security Intrusion Attempt Detected - See Audit Log
INVMACADR	Invalid MAC Address
IOSCFGCOPY	Ios Config Copy In Progress
KB-PASSTHR	K Bytes Pass Through Is Active
KBYTE-APS-CHANNEL-FAILURE	Kbyte Channel Failure
LAN-POL-REV	Lan Connection Polarity Reversed
LASEREOL	Laser Approaching End of Life
LKOUTPR-S	Lockout Of Protection - Span
LMP-HELLODOWN	LMP Hello FSM to Control Channel down
LMP-NDFAIL	LMP Neighbor Discovery has failed
LO-RXPOWER	Equipment Low Rx power
LO-TXPOWER	Equipment Low Tx power
LOA	Loss of Alignment
LOC	Loss of Channel
LOCKOUT-REQ	Lockout Switch Request On Facility or Equipment
LOCKOUT-REQ-RING	Lockout Switch Request On Ring
LOF	Loss Of Frame
LOM	Loss of Multi-Frame
LOP-P	Loss Of Pointer - Path
LOP-V	Loss Of Pointer - VT
LOS	Loss Of Signal
LPBKCRS	Cross-connect Loopback
LPBKDS1FEAC	DS1 Loopback Due To FEAC Command
LPBKDS1FEAC-CMD	DS1 Loopback Command Sent To Far End
LPBKDS3FEAC	DS3 Loopback Due To FEAC Command
LPBKDS3FEAC-CMD	DS3 Loopback Command Sent To Far End

Table 4-15 Conditions (continued)

Condition	Description
LPBKFACILITY	Facility Loopback
LPBKTERMINAL	Terminal Loopback
LWBATVG	Low Volt
MAN-REQ	Manual Switch Request
MANRESET	Manual System Reset
MANSWTOINT	Manual Switch To Internal Clock
MANSWTOPRI	Manual Switch To Primary Reference
MANSWTOSEC	Manual Switch To Second Reference
MANSWTOTHIRD	Manual Switch To Third Reference
MANUAL-REQ-RING	Manual Switch Request On Ring
MANUAL-REQ-SPAN	Manual Switch Request On Span
MEA	Mismatch Of Equipment And Attributes
MEM-GONE	Free Memory On Card Near Zero
MEM-LOW	Free Memory On Card Very Low
MFGMEM	Manufacturing Data Memory (EEPROM Failure
NO-CONFIG	No Startup Config
NTWTPINC	Network Topology Incomplete
OCHNC-ACTIV-FAIL	Optical Channel Activation Failure
OCHNC-DEACTIV-FAIL	Optical Channel De-Activation Failure
OCHNC-FAIL	Optical Channel Connection Failure
OCHNC-INC	Optical Channel Incomplete
ODUK-AIS-PM	ODUk: Alarm Indication Signal
ODUK-BDI-PM	ODUk: PM Backward Defect Indication
ODUK-LCK-PM	ODUk: Locked Defect - PM
ODUK-OCI-PM	ODUk: Open Connection Indication
ODUK-SD-PM	ODUk: Signal Degrade
ODUK-SF-PM	ODUk: Signal Failure
ODUK-TIM-PM	ODUk: Trail Trace Identifier Mismatch
OOU-TPT	Out of Use - Transport Failure
OPTNTWMIS	Optical Network Type Mismatch
OTUK-AIS	OTUk: Alarm Indication Signal
OTUK-BDI	OTUk: Backward Defect Indication
OTUK-LOF	OTUk: Loss Of Frame
OTUK-SD	OTUk: Signal Degrade
OTUK-SF	OTUk: Signal Failure
OTUK-TIM	OTUk: Trail Trace Identifier Mismatch

Table 4-15 Conditions (continued)

Condition	Description
OUT-OF-SYNC	8B10B Out of Sync
PDI-P	Payload Defect Indication - Path
PEER-NORESPONSE	Peer Card Not Responding
PLM-P	Payload Label Mismatch - Path
PLM-V	Signal Label Mismatch Failure - Payload Label Mismatch - VT
PORT-CODE-MISM	Pluggable Port security code mismatch
PORT-COMM-FAIL	Module Communication Failure
PORT-MISMATCH	Pluggable Port rate mismatch
PORT-MISSING	Pluggable Port missing
PRC-DUPID	Duplicate Node ID
PROTNA	Protection Unit Not Available
PTIM	Payload Type Identifier Mismatch
PWR-REDUN	Redundant Power Capability Lost
RAI	Remote Alarm Indication
RCVR-MISS	Facility Termination Equipment - Receiver Missing
RFI	Remote Failure Indication
RFI-L	Remote Failure Indication - Line
RFI-P	One-Bit Remote Failure Indication - Path
RFI-V	Remote Failure Indication - VT
RING-ID-MIS	Ring Id Mismatch
RING-MISMATCH	Far End Of Fiber Is Provisioned With Different Ring ID
RING-SW-EAST	Ring Switch Is Active On The East Side
RING-SW-WEST	Ring Switch Is Active On The West Side
RSVP-HELLODOWN	RSVP Hello FSM to Neighbor down
RUNCFG-SAVENEED	Need to Save Running Config
SD	Signal Degrade
SD-L	BER Threshold Exceeded For Signal Degrade - Line
SD-P	BER Threshold Exceeded For Signal Degrade - Path
SF	Signal Failure
SF-L	BER Threshold Exceeded For Signal Failure - Line
SF-P	BER Threshold Exceeded For Signal Failure - Path
SFTWDOWN	Software Download In Progress
SNTP-HOST	SNTP Host Failure
SPAN-SW-EAST	Span Switch Is Active On The East Side
SPAN-SW-WEST	Span Switch Is Active On The West Side

Table 4-15 Conditions (continued)

Condition	Description
SQM	Sequence Mismatch
SQUELCH	Ring Is Squelching Traffic
SQUELCHED	Equipment Squelched
SSM-DUS	Do Not Use For Synchronization
SSM-FAIL	Failed To Receive Synchronization Status Message
SSM-LNC	G812 - Local Node Clock traceable
SSM-OFF	Synchronization Status Messages Are Disabled On This Interface
SSM-PRC	G811 - Primary Reference Clock traceable
SSM-PRS	Stratum 1 Primary Reference Source Traceable
SSM-RES	Reserved For Network Synchronization Use
SSM-SDH-TN	G812 - Transit Node Clock traceable
SSM-SETS	G813 - Synchronous Equipment Timing Source traceable
SSM-SMC	SONET Minimum Clock Traceable
SSM-ST2	Stratum 2 Traceable
SSM-ST3	Stratum 3 Traceable
SSM-ST3E	Stratum 3E Traceable
SSM-ST4	Stratum 4 Traceable
SSM-STU	Synchronized - Traceability Unknown
SSM-TNC	Transit Node Clock Traceable
SWMTXMOD	Switching Matrix Module Failure
SWTOPRI	Switch To Primary Reference
SWTOSEC	Switch To Second Reference
SWTOTHIRD	Switch To Third Reference
SYNC-FREQ	Synchronization Reference Frequency Out Of Bounds
SYNCPRI	Primary Synchronization Reference Failure
SYNCSEC	Secondary Synchronization Reference Failure
SYNCTHIRD	Third Synchronization Reference Failure
SYSBOOT	System Reboot
TIM	TIM Section - Trace Identifier Mismatch Failure
TIM-MON	TIM Section Monitor - Trace Identifier Mismatch Failure
TIM-P	STS Path Trace Identifier Mismatch
TPTFAIL	Transport layer failure
TRMT	Transmit Failure
TRMT-MISS	Facility Termination Equipment - Transmitter Missing
TUNDERRUN	Ether tx underrun

Table 4-15 Conditions (continued)

Condition	Description
TX-AIS	Alarm Indication Signal in TX
TX-RAI	Remote Alarm Indication in TX
UNC-WORD	FEC Uncorrected Word
UNEQ-P	Unequipped - Path
UNEQ-V	Signal Label Mismatch Failure - Unequipped VT
VCG-DEG	VCAT Group Degraded
VCG-DOWN	VCAT Group Down
WKSWPR	Switched To Protection
WTR	Wait To Restore
WVL-MISMATCH	Equipment Wavelength Mismatch

4.5 Access Identifiers

The AID code 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. The AIDs in this section apply to the ONS SONET 15454, 15327, 15310-CL, and 15600 except where noted.

4.5.1 ALL

Table 4-16 ALL

AID	Pattern
AidUnionId	FACILITY
	STS
	VT
AidUnionId1	BLSR
BAND	ALL
	BAND-{1-6,12-17}-{1-4}-ALL
	BAND-{1-6,12-17}-{1-4}-{RX,TX}
	BAND-{1-6,12-17}-{1}-ALL
	BAND-{1-6,12-17}-{1}-{RX,TX}
BITS	ALL
	BITS-ALL
	BITS-{1,2}
	SYNC-BITS {1,2}
BLSR	ALL
	BLSR-RINGID

Table 4-16 ALL (continued)

AID	Pattern	
CHANNEL	ALL	
	CHAN-{1-6,12-17}-ALL	
	CHAN-{1-6,12-17}-{1-32}-ALL	
	CHAN-{1-6,12-17}-{1-32}-{RX,TX}	
	CHAN-{1-6,12-17}-{1-4}-ALL	
	CHAN-{1-6,12-17}-{1-4}-{RX,TX}	
	CHAN-{1-6,12-17}-{2,3}	
	CHAN-{1-6,12-17}-{2,5}	
COM	Common	
CrossConnectId	FACILITY	
	STS	
CrossConnectId1	VCM	
	FACILITY	
	STS	
	VT	
DS1	ALL	
	DS1-{1-6,12-17}-{1-12,13,15,17,19,21,23,25,27,29,31,33,35}-{1-28}	
	DS1-{1-6,12-17}-{1-12,13,15,17,19,21,23}-{1-28}	
	DS1-{1-6,12-17}-{1-6}-{1-28}	
ENV	ALL	ENV-IN-{1-6}
	ENV-IN-ALL	ENV-OUT-ALL
	ENV-IN-{1-20}	ENV-OUT-{1-16}
	ENV-IN-{1-32}	ENV-OUT-{1-2}
	ENV-IN-{1-3}	ENV-OUT-{1-4}
	ENV-IN-{1-4}	ENV-{IN,OUT}-{1-16}

Table 4-16 ALL (continued)

AID	Pattern	
EQPT	AIP	PPM-{1-6,12-17}-{1-4}
	ALL	PPM-{1-6,12-17}-{1-8}
	BIC-ALL	PWR-ALL
	BIC-{A,B}	PWR-{A,B}
	BP	SLOT-ALL
	FAN	SLOT-{1-14}
	PIM-{1-4,11-14}-ALL	SLOT-{1-17}
	PIM-{1-4,11-14}-{1-4}	SLOT-{1-2}
	PPM-1-{1,2}	SLOT-{1-4,11-14}
	PPM-2-{1,2}	SLOT-{1-6,12-17}
	PPM-{1-4,11-14}-{1-4}-ALL	SLOT-{1-8}
	PPM-{1-4,11-14}-{1-4}-{1-4}	
FACILITY	ALL	FAC-{1-6,12-17}-{1}
	EC1-{2}-{1-3}	FAC-{1-6}-ALL
	FAC-{1-4,11-14}-ALL	FAC-{5,6,12,13}-{1}
	FAC-{1-4,11-14}-{1-16}	FAC-{5-6}-{1-28}
	FAC-{1-4,11-14}-{1-4}	FAC-{5-6}-{1-3}
	FAC-{1-4,11-14}-{1-4}-{1-4}-{1}	FAC-{8,10}-{1}
	FAC-{1-4,14-17}-{1-8}	FSTE-{1}-{0-7}
	FAC-{1-4}-1	FSTE-{1}-{1-8}
	FAC-{1-4}-{1-4}	OC12-{2}-{1-2}-{1}
	FAC-{1-6,12-17}-1	OC3-{2}-{1-2}-{1}
	FAC-{1-6,12-17}-ALL	T1-{2}-{1-21}
	FAC-{1-6,12-17}-{0-11}	T3-{2}-{1-3}
	FAC-{1-6,12-17}-{0-1}	VFAC-{1-4,11-14}-{1-4}-{1-4}-1
	FAC-{1-6,12-17}-{1-12,14,16,18,20,22,24,26,28,30,32,34,36}	VFAC-{1-6,12-17}-{0-1}
	FAC-{1-6,12-17}-{1-12,14,16,18,20,22,24}	VFAC-{1-6,12-17}-{1,2}
	FAC-{1-6,12-17}-{1-12}	VFAC-{1-6,12-17}-{1,2}-{1,8}
	FAC-{1-6,12-17}-{1-4}	VFAC-{1}-{0-1}
	FAC-{1-6,12-17}-{1-6}	VFAC-{1}-{1-8}

Table 4-16 ALL (continued)

AID	Pattern
LINE	ALL
	LINE-{1-6,12-17}-{1-2}-ALL
	LINE-{1-6,12-17}-{1-2}-{RX,TX}
	LINE-{1-6,12-17}-{1-3}-ALL
	LINE-{1-6,12-17}-{1-3}-{RX,TX}
	LINE-{8,10}-{1}-ALL
	LINE-{8,10}-{1}-{RX,TX}
OSC	ALL
	OSC-RINGID
OPM	OPM-{1-5,12-16}--{1530.33,1531.12,1531.90,1532.68,1534.25,1535.04,1535.82,
	1536.61,1538.19,1538.98,1539.77,1540.56,1542.14,1542.94,1543.73,1544.53,
	1546.12,1546.92,1547.72,1548.51,1550.12,1550.92,1551.72,1552.52,1554.13,
	1554.94,1555.75,1556.55,1558.17,1558.98,1559.79,1560.61}
PRSLOT	NULL
	SLOT-1
	SLOT-13
	SLOT-15
	SLOT-17
	SLOT-3
	SLOT-5
RFILE	RFILE-DB
	RFILE-PKG

Table 4-16 ALL (continued)

AID	Pattern
STS	ALL
	FAC-{1-4,11-14}-{1-4}-{1-4}-{1}
	FAC-{1-6,12-17}-{1-4}
	STS-{1-4,11-14}-{1-16}-1
	STS-{1-4,11-14}-{1-16}-ALL
	STS-{1-4,11-14}-{1-16}-{1,13,25,37}
	STS-{1-4,11-14}-{1-16}-{1,25}
	STS-{1-4,11-14}-{1-16}-{1,4,7,10,-,46}
	STS-{1-4,11-14}-{1-4}-1
	STS-{1-4,11-14}-{1-4}-ALL
	STS-{1-4,11-14}-{1-4}-{1,13,25,37,-,181}
	STS-{1-4,11-14}-{1-4}-{1,25,49,73,-,169}
	STS-{1-4,11-14}-{1-4}-{1,4,7,10,-,190}
	STS-{1-4,11-14}-{1-4}-{1,49,97,145}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,13,25,37}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,25}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,4,13,16,25,28,37,40}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,4,7,10,13,16,19,22,25,28,31,34,37,40,43,46}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,4,7}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,4}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1-12}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1-3}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1-48}
	STS-{1-4,11-14}-{1-4}-{1-192}
	STS-{1-4,11-14}-{1-4}-{1-4}-{1}-ALL
	STS-{1-4,11-14}-{1-4}-{1-4}-{1}-{1,4,7,13,16,19,25,28,31,43}
	STS-{1-4,14-17}-{1-16}-{1-48}
	STS-{1-4,14-17}-{1-4}-1
	STS-{1-4,14-17}-{1-4}-ALL
	STS-{1-4,14-17}-{1-4}-{1,4,7,10}
	STS-{1-4,14-17}-{1-4}-{1,4,7}
	STS-{1-4,14-17}-{1-4}-{1-3}

Table 4-16 ALL (continued)

AID	Pattern
STS (continued)	STS-{1-4,14-17}-{1-8}-1
	STS-{1-4,14-17}-{1-8}-ALL
	STS-{1-4,14-17}-{1-8}-{1-3}
	STS-{1-4}-1-1
	STS-{1-4}-1-ALL
	STS-{1-4}-1-{1,13,25,37}
	STS-{1-4}-1-{1,4,7,10,-.,46}
	STS-{1-4}-1-{1,4,7,10}
	STS-{1-4}-1-{1,7,13,19,-,43}
	STS-{1-4}-1-{1,7}
	STS-{1-4}-1-{1-12}
	STS-{1-4}-1-{1-48}
	STS-{1-6,12-17}-1
	STS-{1-6,12-17}-1-1
	STS-{1-6,12-17}-1-ALL
	STS-{1-6,12-17}-1-{1,13,25,37}
	STS-{1-6,12-17}-1-{1,4,10,13,16,19,25,28,37,40}
	STS-{1-6,12-17}-1-{1,4,7,10,13,16,19,22,25}
	STS-{1-6,12-17}-1-{1,4,7,10-46}
	STS-{1-6,12-17}-1-{1,4,7,10}
	STS-{1-6,12-17}-1-{1,4,7,13,16,19,25,28,37,40,43}
	STS-{1-6,12-17}-1-{1,4,7}
	STS-{1-6,12-17}-1-{1,4}
	STS-{1-6,12-17}-1-{1-12}
	STS-{1-6,12-17}-1-{1-48}
	STS-{1-6,12-17}-ALL
	STS-{1-6,12-17}-{1-12}-1
	STS-{1-6,12-17}-{1-24}-1
	STS-{1-6,12-17}-{1-36}-1
	STS-{1-6,12-17}-{1-4}-1
	STS-{1-6,12-17}-{1-4}-ALL
	STS-{1-6,12-17}-{1-4}-{1,4,7,10-46}
	STS-{1-6,12-17}-{1-4}-{1,4,7}
	STS-{1-6,12-17}-{1-4}-{1,4}

Table 4-16 ALL (continued)

AID	Pattern	
STS (continued)	STS-{1-6,12-17}-{1-4}-{1-12}	
	STS-{1-6,12-17}-{1-6}	
	STS-{2}-{1-2}-{1}-{1,4,7,10}	
	STS-{2}-{1-2}-{1}-{1,7}	
	STS-{2}-{1-2}-{1}-{1-12}	
	STS-{2}-{1-2}-{1}-{1-3}	
	STS-{2}-{1-2}-{1}-{1}	
	STS-{2}-{1-3}-{1}	
	STS-{2}-{1}	
	STS-{5,6,12,13}-1-1	
	STS-{5,6,12,13}-1-{1,13,25,37-180}	
	STS-{5,6,12,13}-1-{1,13,25,37}	
	STS-{5,6,12,13}-1-{1,4,7,10,13,16,19,22,25}	
	STS-{5,6,12,13}-1-{1,4,7,10-190}	
	STS-{5,6,12,13}-1-{1,4,7,10-46}	
	STS-{5,6,12,13}-1-{1,4,7,13,16,19,25,28,37,40,43}	
	STS-{5,6,12,13}-1-{1,49,97,145}	
	STS-{5,6,12,13}-1-{1-192}	
	STS-{5,6,12,13}-1-{1-48}	
	STS-{5,6}-1	
	STS-{5,6}-{1-4}-1	
	STS-{5-6}-ALL	
	VFAC-{1-6,12-17}-{0-1}	
SYN	SYNC-NE	
SYN_SRC	BITS-1	FAC-{5,6,12,13}-{1}
	BITS-2	INTERNAL
	FAC-{1-4,11-14}-{1-16}	NONE
	FAC-{1-4,11-14}-{1-4}	OC12-{2}-{1-2}-{1}
	FAC-{1-4}-1	OC3-{2}-{1-2}-{1}
	FAC-{1-4}-{1-4}	SYNC-NE
	FAC-{1-6,12-17}-{1-4}	T1-{2}-{1-21}
	FAC-{1-6,12-17}-{1}	
SYNC_REF	ALL	
	SYNC-ALL	
	SYNC-NE	
	SYNC-{BITS1,BITS2}	

Table 4-16 ALL (continued)

AID	Pattern	
SYNCSW	INT	
	PRI	
	SEC	
	THIRD	
UDC	ALL	
	UDC-{F,DCC}-{A,B}	
VT	ALL	VT1-{2}-{1-2}-{1}-{1-3}-{1-7}-{1-4}
	VT1-{1-4,14-17}-{1-8}-{1-3}-{1-7}-{1-4}	VT1-{2}-{1-3}-{1}-{1-7}-{1-4}
	VT1-{1-4}-1-{1-12}-{1-7}-{1-4}	VT1-{2}-{1}-{1-7}-{1-3}
	VT1-{1-4}-1-{1-48}-{1-7}-{1-4}	VT1-{5,6,12,13}-1-{1-192}-{1-7}-{1-4}
	VT1-{1-4}-{1-4}-{1-3}-{1-7}-{1-4}	VT1-{5,6,12,13}-1-{1-48}-{1-7}-{1-4}
	VT1-{1-6,12-17}-1-{1-12}-{1-7}-{1-4}	VT1-{5-6}-1-{1-7}-{1-2}
	VT1-{1-6,12-17}-1-{1-48}-{1-7}-{1-4}	VT1-{5-6}-1-{1-7}-{1-4}
	VT1-{1-6,12-17}-1-{1-7}-{1-2}	VT2-{1-4,14-17}-{1-8}-{1-3}-{1-7}-{1-3}
	VT1-{1-6,12-17}-{1-12}-1-{1-7}-{1-4}	VT2-{1-6,12-17}-1-{1-12}-{1-7}-{1-3}
	VT1-{1-6,12-17}-{1-24}-1-{1-7}-{1-4}	VT2-{1-6,12-17}-1-{1-48}-{1-7}-{1-3}
	VT1-{1-6,12-17}-{1-36}-1-{1-7}-{1-4}	VT2-{1-6,12-17}-{1-4}-{1-12}-{1-7}-{1-3}
	VT1-{1-6,12-17}-{1-4}-{1-12}-{1-7}-{1-4}	VT2-{1-6,12-17}-{1-4}-{1-3}-{1-7}-{1-3}
	VT1-{1-6,12-17}-{1-4}-{1-3}-{1-7}-{1-4}	VT2-{5,6,12,13}-1-{1-192}-{1-7}-{1-3}
	VT1-{1-6,12-17}-{1-6}-{1-7}-{1-4}	VT2-{5,6,12,13}-1-{1-48}-{1-7}-{1-3}
	VT1-{2}-{1-2}-{1}-{1-12}-{1-7}-{1-4}	
WDMANS	AONS-{E,W}	
	WDMANS-{E,W}	
WLEN	WLEN-{E,W}-{ADD,DROP,EXP}-{1530.33,1531.12,1531.90,1532.68,1534.25,1535.04,1535.82,1536.61,1538.19,1538.98,1539.77,1540.56,1542.14,1542.94,1543.73,1544.53, 1546.12,1546.92,,1547.72,1548.51,1550.12,1550.92,1551.72,1552.52,1554.13,1554.94, 1555.75,1556.55,1558.17,1558.98,1559.79,1560.61}	

4.5.2 AidUnionId

Table 4-17 AidUnionId

AID	Patterns	
Facility	ALL	FAC-{1-6,12-17}-{1}
	EC1-{2}-{1-3}	FAC-{1-6}-ALL
	FAC-{1-4,11-14}-ALL	FAC-{5,6,12,13}-{1}
	FAC-{1-4,11-14}-{1-16}	FAC-{5-6}-{1-28}
	FAC-{1-4,11-14}-{1-4}	FAC-{5-6}-{1-3}
	FAC-{1-4,11-14}-{1-4}-{1-4}-{1}	FAC-{8,10}-{1}
	FAC-{1-4,14-17}-{1-8}	FSTE-{1}-{0-7}
	FAC-{1-4}-1	FSTE-{1}-{1-8}
	FAC-{1-4}-{1-4}	OC12-{2}-{1-2}-{1}
	FAC-{1-6,12-17}-1	OC3-{2}-{1-2}-{1}
	FAC-{1-6,12-17}-ALL	T1-{2}-{1-21}
	FAC-{1-6,12-17}-{0-11}	T3-{2}-{1-3}
	FAC-{1-6,12-17}-{0-1}	VFAC-{1-4,11-14}-{1-4}-{1-4}-1
	FAC-{1-6,12-17}-{1-12,14,16,18,20,22,24,26,28,30,32,34,36}	VFAC-{1-6,12-17}-{0-1}
	FAC-{1-6,12-17}-{1-12,14,16,18,20,22,24}	VFAC-{1-6,12-17}-{1,2}
	FAC-{1-6,12-17}-{1-12}	VFAC-{1-6,12-17}-{1,2}-{1,8}
	FAC-{1-6,12-17}-{1-4}	VFAC-{1}-{0-1}
	FAC-{1-6,12-17}-{1-6}	VFAC-{1}-{1-8}
STS	ALL	
	FAC-{1-4,11-14}-{1-4}-{1-4}-{1}	
	FAC-{1-6,12-17}-{1-4}	
	STS-{1-4,11-14}-{1-16}-1	
	STS-{1-4,11-14}-{1-16}-ALL	
	STS-{1-4,11-14}-{1-16}-{1,13,25,37}	
	STS-{1-4,11-14}-{1-16}-{1,25}	
	STS-{1-4,11-14}-{1-16}-{1,4,7,10,-,46}	
	STS-{1-4,11-14}-{1-4}-1	
	STS-{1-4,11-14}-{1-4}-ALL	
	STS-{1-4,11-14}-{1-4}-{1,13,25,37,-,181}	
	STS-{1-4,11-14}-{1-4}-{1,25,49,73,-,169}	
	STS-{1-4,11-14}-{1-4}-{1,4,7,10,-,190}	
	STS-{1-4,11-14}-{1-4}-{1,49,97,145}	

Table 4-17 AidUnionId (continued)

AID	Patterns
STS (continued)	STS-{1-4,11-14}-{1-4}-{1,4}-{1}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,13,25,37}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,25}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,4,13,16,25,28,37,40}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,4,7,10,13,16,19,22,25,28,31,34,37,40,43,46}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,4,7}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,4}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1-12}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1-3}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1-48}
	STS-{1-4,11-14}-{1-4}-{1-192}
	STS-{1-4,11-14}-{1-4}-{1-4}-{1}-ALL
	STS-{1-4,11-14}-{1-4}-{1-4}-{1}-{1,4,7,13,16,19,25,28,31,43}
	STS-{1-4,14-17}-{1-16}-{1-48}
	STS-{1-4,14-17}-{1-4}-1
	STS-{1-4,14-17}-{1-4}-ALL
	STS-{1-4,14-17}-{1-4}-{1,4,7,10}
	STS-{1-4,14-17}-{1-4}-{1,4,7}
	STS-{1-4,14-17}-{1-4}-{1-3}
	STS-{1-4,14-17}-{1-8}-1
	STS-{1-4,14-17}-{1-8}-ALL
	STS-{1-4,14-17}-{1-8}-{1-3}
	STS-{1-4}-1-1
	STS-{1-4}-1-ALL
	STS-{1-4}-1-{1,13,25,37}
	STS-{1-4}-1-{1,4,7,10,-.,46}
	STS-{1-4}-1-{1,4,7,10}
	STS-{1-4}-1-{1,7,13,19,-,43}
	STS-{1-4}-1-{1,7}
	STS-{1-4}-1-{1-12}
	STS-{1-4}-1-{1-48}
	STS-{1-6,12-17}-1
	STS-{1-6,12-17}-1-1
	STS-{1-6,12-17}-1-ALL

Table 4-17 AidUnionId (continued)

AID	Patterns
STS (continued)	STS-{1-6,12-17}-1-{1,13,25,37}
	STS-{1-6,12-17}-1-{1,4,10,13,16,19,25,28,37,40}
	STS-{1-6,12-17}-1-{1,4,7,10,13,16,19,22,25}
	STS-{1-6,12-17}-1-{1,4,7,10-46}
	STS-{1-6,12-17}-1-{1,4,7,10}
	STS-{1-6,12-17}-1-{1,4,7,13,16,19,25,28,37,40,43}
	STS-{1-6,12-17}-1-{1,4,7}
	STS-{1-6,12-17}-1-{1,4}
	STS-{1-6,12-17}-1-{1-12}
	STS-{1-6,12-17}-1-{1-48}
	STS-{1-6,12-17}-ALL
	STS-{1-6,12-17}-{1-12}-1
	STS-{1-6,12-17}-{1-24}-1
	STS-{1-6,12-17}-{1-36}-1
	STS-{1-6,12-17}-{1-4}-1
	STS-{1-6,12-17}-{1-4}-ALL
	STS-{1-6,12-17}-{1-4}-{1,4,7,10-46}
	STS-{1-6,12-17}-{1-4}-{1,4,7}
	STS-{1-6,12-17}-{1-4}-{1,4}
	STS-{1-6,12-17}-{1-4}-{1-12}
	STS-{1-6,12-17}-{1-6}
	STS-{2}-{1-2}-{1}-{1,4,7,10}
	STS-{2}-{1-2}-{1}-{1,7}
	STS-{2}-{1-2}-{1}-{1-12}
	STS-{2}-{1-2}-{1}-{1-3}
	STS-{2}-{1-2}-{1}-{1}
	STS-{2}-{1-3}-{1}
	STS-{2}-{1}
	STS-{5,6,12,13}-1-1
	STS-{5,6,12,13}-1-{1,13,25,37-180}
	STS-{5,6,12,13}-1-{1,13,25,37}
	STS-{5,6,12,13}-1-{1,4,7,10,13,16,19,22,25}
	STS-{5,6,12,13}-1-{1,4,7,10-190}
	STS-{5,6,12,13}-1-{1,4,7,10-46}
	STS-{5,6,12,13}-1-{1,4,7,13,16,19,25,28,37,40,43}

Table 4-17 AidUnionId (continued)

AID	Patterns	
STS (continued)	STS-{5,6,12,13}-1-{1,49,97,145}	
	STS-{5,6,12,13}-1-{1-192}	
	STS-{5,6,12,13}-1-{1-48}	
	STS-{5,6}-1	
	STS-{5,6}-{1-4}-1	
	STS-{5-6}-ALL	
	VFAC-{1-6,12-17}-{0-1}	
VT	ALL	VT1-{2}-{1-2}-{1}-{1-3}-{1-7}-{1-4}
	VT1-{1-4,14-17}-{1-8}-{1-3}-{1-7}-{1-4}	VT1-{2}-{1-3}-{1}-{1-7}-{1-4}
	VT1-{1-4}-1-{1-12}-{1-7}-{1-4}	VT1-{2}-{1}-{1-7}-{1-3}
	VT1-{1-4}-1-{1-48}-{1-7}-{1-4}	VT1-{5,6,12,13}-1-{1-192}-{1-7}-{1-4}
	VT1-{1-4}-{1-4}-{1-3}-{1-7}-{1-4}	VT1-{5,6,12,13}-1-{1-48}-{1-7}-{1-4}
	VT1-{1-6,12-17}-1-{1-12}-{1-7}-{1-4}	VT1-{5-6}-1-{1-7}-{1-2}
	VT1-{1-6,12-17}-1-{1-48}-{1-7}-{1-4}	VT1-{5-6}-1-{1-7}-{1-4}
	VT1-{1-6,12-17}-1-{1-7}-{1-2}	VT2-{1-4,14-17}-{1-8}-{1-3}-{1-7}-{1-3}
	VT1-{1-6,12-17}-{1-12}-1-{1-7}-{1-4}	VT2-{1-6,12-17}-1-{1-12}-{1-7}-{1-3}
	VT1-{1-6,12-17}-{1-24}-1-{1-7}-{1-4}	VT2-{1-6,12-17}-1-{1-48}-{1-7}-{1-3}
	VT1-{1-6,12-17}-{1-36}-1-{1-7}-{1-4}	VT2-{1-6,12-17}-{1-4}-{1-12}-{1-7}-{1-3}
	VT1-{1-6,12-17}-{1-4}-{1-12}-{1-7}-{1-4}	VT2-{1-6,12-17}-{1-4}-{1-3}-{1-7}-{1-3}
	VT1-{1-6,12-17}-{1-4}-{1-3}-{1-7}-{1-4}	VT2-{5,6,12,13}-1-{1-192}-{1-7}-{1-3}
	VT1-{1-6,12-17}-{1-6}-{1-7}-{1-4}	VT2-{5,6,12,13}-1-{1-48}-{1-7}-{1-3}
	VT1-{2}-{1-2}-{1}-{1-12}-{1-7}-{1-4}	

4.5.3 AidUnionId1

Table 4-18 AidUnionId1

AID	Patterns
BLSR	ALL BLSR-RINGID

4.5.4 BAND

(Cisco ONS 15454 only)

The BAND AID is used to access Optical Multiplex Section (OMS) layer of Optical Network units.

Table 4-19 BAND

Pattern	Description
ALL	All of the OMSs of the NE. The ALL AID is applicable for retrieve-only commands
BAND-{1-6,12-17}-{1-4}-ALL	All the Channels in a Band OADM (1Bn, 4Bn) units
BAND-{1-6,12-17}-{1-4}-{RX,TX}	The Receive/Transmit Channels in a Band OADM (1Bn, 4Bn) units
BAND-{1-6,12-17}-{1}-ALL	All the Channels in an Optical Multiplexer/Demultiplexer (4Ch) units
BAND-{1-6,12-17}-{1}-{RX,TX}	The Receive/Transmit Channels in an Optical Multiplexer/Demultiplexer (4Ch) units

4.5.5 BITS

AID for BITS (Building Integrated Timing Supply).

Table 4-20 BITS

Pattern	Description
ALL	The ALL AID is applicable to RTRV commands only (RTRV-BITS and RTRV-ALM/COND-BITS). The All AID is equivalent to BITS-ALL for these commands. For RTRV-ALM/COND-SYNCN, the ALL AID translates to BITS-ALL, SYNC-BITS1, and SYNC-BITS2
BITS-ALL	BITS AIDS of both BITS-1 and BITS-2 in the RTRV-BITS command
BITS-{1,2}	Individual BITS AID **Note** ONS 15310-CL does not support SYNC-BITS2.
SYNC-BITS{1,2}	BITS-OUT AIDs of BITS-1 and BITS-2. These AIDs are applicable only in ED/RTRV-BITS commands and are used for setting and retrieving the BITS-OUT parameters.

4.5.6 BLSR

BLSR AIDs are used to access the specific BLSR of the NE. Applies to ONS 15454, 15454, and 15600.

Table 4-21 BLSR

Pattern	Description
ALL	All the BLSRs in the NE. The ALL AID is applicable for retrieve-only commands like RTRV-<MOD_RING> (BLSR)
BLSR-RINGID	RINGID is a string of up to six characters. Valid characters are [A–Z,0–9] (case insensitive)

4.5.7 CHANNEL

(Cisco ONS 15454 only)

Accesses the Optical Channels (OCH) layer of Optical Network/Client units.

Table 4-22 CHANNEL

CHANNEL Values	Description
ALL	ALL OCHs of the NE. The ALL AID is applicable for retrieve-only commands
CHAN-{1-6,12-17}-ALL	All the Channels of an Optical Transponder/Muxponder. The format is CHAN-[SLOT]-ALL
CHAN-{1-6,12-17}-{1-32}-ALL	All the Channels in an Optical Multiplexer/Demultiplexer (32Ch) units. The format is CHAN-[SLOT]-[PORT]-ALL
CHAN-{1-6,12-17}-{1-32}-{RX,TX}	The Receive/Transmit Channels in an Optical Multiplexer/Demultiplexer (32Ch) units. The format is CHAN-[SLOT]-[PORT]-[DIRECTION]
CHAN-{1-6,12-17}-{1-4}-ALL	All the Channels in an OADM (1Ch, 2Ch, 4Ch) units and Optical and Optical Multiplexer/Demultiplexer (4Ch) units. The format is CHAN-[SLOT]-[PORT]-ALL
CHAN-{1-6,12-17}-{1-4}-{RX,TX}	The Receive/Transmit Channels in an OADM (1Ch, 2Ch, 4Ch) units and Optical Multiplexer/Demultiplexer (4Ch) units. The format is CHAN-[SLOT]-[PORT]-[DIRECTION]
CHAN-{1-6,12-17}-{2,3}	A single channel of an Optical Transponder/Muxponder. The TXP_MR_10G and TXP_MR_2.5G use CHAN-slot-2 for the 1 DWDM Facility. TXPP_MR_2.5G uses CHAN-slot-{2,3} for the 2 DWDM facilities. The format is CHAN-[SLOT]-[PORT]
CHAN-{1-6,12-17}-{2,5}	A single channel of an Optical Transponder/Muxponder. The TXP_MR_10G uses CHAN-slot-2 for the 1 DWDM facility. MXP_2.5G_10G uses the CHAN-slot-5 for the 1 DWDM facility. The format is CHAN-[SLOT]-[PORT]

4.5.8 COM

Common

Table 4-23 COM

Pattern	Description
COM	Common

4.5.9 CrossConnectId

Table 4-24 CrossConnect Id

Pattern	Description
FACILITY	ALL
	EC1-{2}-{1-3}
	FAC-{1-4,11-14}-ALL
	FAC-{1-4,11-14}-{1-16}
	FAC-{1-4,11-14}-{1-4}
	FAC-{1-4,11-14}-{1-4}-{1-4}-{1}
	FAC-{1-4,14-17}-{1-8}
	FAC-{1-4}-1
	FAC-{1-4}-{1-4}
	FAC-{1-6,12-17}-1
	FAC-{1-6,12-17}-ALL
	FAC-{1-6,12-17}-{0-11}
	FAC-{1-6,12-17}-{0-1}
	FAC-{1-6,12-17}-{1-12,14,16,18,20,22,24,26,28,30,32,34,36}
	FAC-{1-6,12-17}-{1-12,14,16,18,20,22,24}
	FAC-{1-6,12-17}-{1-12}
	FAC-{1-6,12-17}-{1-4}
	FAC-{1-6,12-17}-{1-6}
	FAC-{1-6,12-17}-{1}
	FAC-{1-6}-ALL
	FAC-{5,6,12,13}-{1}

Table 4-24 CrossConnect Id (continued)

Pattern	Description
Facility	FAC-{5-6}-{1-28}
	FAC-{5-6}-{1-3}
	FAC-{8,10}-{1}
	FSTE-{1}-{0-7}
	FSTE-{1}-{1-8}
	OC12-{2}-{1-2}-{1}
	OC3-{2}-{1-2}-{1}
	T1-{2}-{1-21}
	T3-{2}-{1-3}
	VFAC-{1-4,11-14}-{1-4}-{1-4}-1
	VFAC-{1-6,12-17}-{0-1}
	VFAC-{1-6,12-17}-{1,2}
	VFAC-{1-6,12-17}-{1,2}-{1,8}
	VFAC-{1}-{0-1}
	VFAC-{1}-{1-8}

Table 4-24 CrossConnect Id (continued)

Pattern	Description
STS	ALL
	FAC-{1-4,11-14}-{1-4}-{1-4}-{1}
	FAC-{1-6,12-17}-{1-4}
	STS-{1-4,11-14}-{1-16}-1
	STS-{1-4,11-14}-{1-16}-ALL
	STS-{1-4,11-14}-{1-16}-{1,13,25,37}
	STS-{1-4,11-14}-{1-16}-{1,25}
	STS-{1-4,11-14}-{1-16}-{1,4,7,10,-,46}
	STS-{1-4,11-14}-{1-4}-1
	STS-{1-4,11-14}-{1-4}-ALL
	STS-{1-4,11-14}-{1-4}-{1,13,25,37,-,181}
	STS-{1-4,11-14}-{1-4}-{1,25,49,73,-,169}
	STS-{1-4,11-14}-{1-4}-{1,4,7,10,-,190}
	STS-{1-4,11-14}-{1-4}-{1,49,97,145}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,13,25,37}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,25}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,4,13,16,25,28,37,40}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,4,7,10,13,16,19,22,25,28,31,34,37,40,43,46}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,4,7}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,4}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1-12}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1-3}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1-48}
	STS-{1-4,11-14}-{1-4}-{1-192}
	STS-{1-4,11-14}-{1-4}-{1-4}-{1}-ALL
	STS-{1-4,11-14}-{1-4}-{1-4}-{1}-{1,4,7,13,16,19,25,28,31,43}

Table 4-24 CrossConnect Id (continued)

Pattern	Description
STS	STS-{1-4,14-17}-{1-16}-{1-48}
	STS-{1-4,14-17}-{1-4}-1
	STS-{1-4,14-17}-{1-4}-ALL
	STS-{1-4,14-17}-{1-4}-{1,4,7,10}
	STS-{1-4,14-17}-{1-4}-{1,4,7}
	STS-{1-4,14-17}-{1-4}-{1-3}
	STS-{1-4,14-17}-{1-8}-1
	STS-{1-4,14-17}-{1-8}-ALL
	STS-{1-4,14-17}-{1-8}-{1-3}
	STS-{1-4}-1-1
	STS-{1-4}-1-ALL
	STS-{1-4}-1-{1,13,25,37}
	STS-{1-4}-1-{1,4,7,10,-.,46}
	STS-{1-4}-1-{1,4,7,10}
	STS-{1-4}-1-{1,7,13,19,-,43}
	STS-{1-4}-1-{1,7}
	STS-{1-4}-1-{1-12}
	STS-{1-4}-1-{1-48}
	STS-{1-6,12-17}-1
	STS-{1-6,12-17}-1-1
	STS-{1-6,12-17}-1-ALL
	STS-{1-6,12-17}-1-{1,13,25,37}
	STS-{1-6,12-17}-1-{1,4,10,13,16,19,25,28,37,40}
	STS-{1-6,12-17}-1-{1,4,7,10,13,16,19,22,25}
	STS-{1-6,12-17}-1-{1,4,7,10-46}
	STS-{1-6,12-17}-1-{1,4,7,10}
	STS-{1-6,12-17}-1-{1,4,7,13,16,19,25,28,37,40,43}
	STS-{1-6,12-17}-1-{1,4,7}
	STS-{1-6,12-17}-1-{1,4}
	STS-{1-6,12-17}-1-{1-12}
	STS-{1-6,12-17}-1-{1-48}
	STS-{1-6,12-17}-ALL

Table 4-24 CrossConnect Id (continued)

Pattern	Description
STS	STS-{1-6,12-17}-{1-12}-1
	STS-{1-6,12-17}-{1-24}-1
	STS-{1-6,12-17}-{1-36}-1
	STS-{1-6,12-17}-{1-4}-1
	STS-{1-6,12-17}-{1-4}-ALL
	STS-{1-6,12-17}-{1-4}-{1,4,7,10-46}
	STS-{1-6,12-17}-{1-4}-{1,4,7}
	STS-{1-6,12-17}-{1-4}-{1,4}
	STS-{1-6,12-17}-{1-4}-{1-12}
	STS-{1-6,12-17}-{1-6}
	STS-{2}-{1-2}-{1}-{1,4,7,10}
	STS-{2}-{1-2}-{1}-{1,7}
	STS-{2}-{1-2}-{1}-{1-12}
	STS-{2}-{1-2}-{1}-{1-3}
	STS-{2}-{1-2}-{1}-{1}
	STS-{2}-{1-3}-{1}
	STS-{2}-{1}
	STS-{5,6,12,13}-1-1
	STS-{5,6,12,13}-1-{1,13,25,37-180}
	STS-{5,6,12,13}-1-{1,13,25,37}
	STS-{5,6,12,13}-1-{1,4,7,10,13,16,19,22,25}
	STS-{5,6,12,13}-1-{1,4,7,10-190}
	STS-{5,6,12,13}-1-{1,4,7,10-46}
	STS-{5,6,12,13}-1-{1,4,7,13,16,19,25,28,37,40,43}
	STS-{5,6,12,13}-1-{1,49,97,145}
	STS-{5,6,12,13}-1-{1-192}
	STS-{5,6,12,13}-1-{1-48}
	STS-{5,6}-1
	STS-{5,6}-{1-4}-1
	STS-{5-6}-ALL
	VFAC-{1-6,12-17}-{0-1}

4.5.10 CrossConnectId1

Table 4-25 CrossConnectId1

AID	Pattern
VCM	VCM-{1-6,12-17}-{0-1}-ALL
	VCM-{1-6,12-17}-{0-1}-{1-256}
	VCM-{1-6,12-17}-{1-4}-ALL
	VCM-{1-6,12-17}-{1-4}-{1-256}
FACILITY	ALL
	EC1-{2}-{1-3}
	FAC-{1-4,11-14}-ALL
	FAC-{1-4,11-14}-{1-16}
	FAC-{1-4,11-14}-{1-4}
	FAC-{1-4,11-14}-{1-4}-{1-4}-{1}
	FAC-{1-4,14-17}-{1-8}
	FAC-{1-4}-1
	FAC-{1-4}-{1-4}
	FAC-{1-6,12-17}-1
	FAC-{1-6,12-17}-ALL
	FAC-{1-6,12-17}-{0-11}
	FAC-{1-6,12-17}-{0-1}
	FAC-{1-6,12-17}-{1-12,14,16,18,20,22,24,26,28,30,32,34,36}
	FAC-{1-6,12-17}-{1-12,14,16,18,20,22,24}
	FAC-{1-6,12-17}-{1-12}
	FAC-{1-6,12-17}-{1-4}
	FAC-{1-6,12-17}-{1-6}
	FAC-{1-6,12-17}-{1}
	FAC-{1-6}-ALL
	FAC-{5,6,12,13}-{1}
	FAC-{5-6}-{1-28}
	FAC-{5-6}-{1-3}
	FAC-{8,10}-{1}

Table 4-25 CrossConnectId1 (continued)

AID	Pattern
Facility (continued)	FSTE-{1}-{0-7}
	FSTE-{1}-{1-8}
	OC12-{2}-{1-2}-{1}
	OC3-{2}-{1-2}-{1}
	T1-{2}-{1-21}
	T3-{2}-{1-3}
	VFAC-{1-4,11-14}-{1-4}-{1-4}-1
	VFAC-{1-6,12-17}-{0-1}
	VFAC-{1-6,12-17}-{1,2}
	VFAC-{1-6,12-17}-{1,2}-{1,8}
	VFAC-{1}-{0-1}
	VFAC-{1}-{1-8}

Table 4-25 CrossConnectId1 (continued)

AID	Pattern
STS	ALL
	FAC-{1-4,11-14}-{1-4}-{1-4}-{1}
	FAC-{1-6,12-17}-{1-4}
	STS-{1-4,11-14}-{1-16}-1
	STS-{1-4,11-14}-{1-16}-ALL
	STS-{1-4,11-14}-{1-16}-{1,13,25,37}
	STS-{1-4,11-14}-{1-16}-{1,25}
	STS-{1-4,11-14}-{1-16}-{1,4,7,10,-,46}
	STS-{1-4,11-14}-{1-4}-1
	STS-{1-4,11-14}-{1-4}-ALL
	STS-{1-4,11-14}-{1-4}-{1,13,25,37,-,181}
	STS-{1-4,11-14}-{1-4}-{1,25,49,73,-,169}
	STS-{1-4,11-14}-{1-4}-{1,4,7,10,-,190}
	STS-{1-4,11-14}-{1-4}-{1,49,97,145}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,13,25,37}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,25}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,4,13,16,25,28,37,40}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,4,7,10,13,16,19,22,25,28,31,34,37,40,43,46}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,4,7}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,4}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1-12}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1-3}
	STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1-48}
	STS-{1-4,11-14}-{1-4}-{1-192}
	STS-{1-4,11-14}-{1-4}-{1-4}-{1}-ALL
	STS-{1-4,11-14}-{1-4}-{1-4}-{1}-{1,4,7,13,16,19,25,28,31,43}
	STS-{1-4,14-17}-{1-16}-{1-48}
	STS-{1-4,14-17}-{1-4}-1
	STS-{1-4,14-17}-{1-4}-ALL
	STS-{1-4,14-17}-{1-4}-{1,4,7,10}
	STS-{1-4,14-17}-{1-4}-{1,4,7}
	STS-{1-4,14-17}-{1-4}-{1-3}

Table 4-25 CrossConnectId1 (continued)

AID	Pattern
STS (continued)	STS-{1-4,14-17}-{1-8}-1
	STS-{1-4,14-17}-{1-8}-ALL
	STS-{1-4,14-17}-{1-8}-{1-3}
	STS-{1-4}-1-1
	STS-{1-4}-1-ALL
	STS-{1-4}-1-{1,13,25,37}
	STS-{1-4}-1-{1,4,7,10,-.,46}
	STS-{1-4}-1-{1,4,7,10}
	STS-{1-4}-1-{1,7,13,19,-,43}
	STS-{1-4}-1-{1,7}
	STS-{1-4}-1-{1-12}
	STS-{1-4}-1-{1-48}
	STS-{1-6,12-17}-1
	STS-{1-6,12-17}-1-1
	STS-{1-6,12-17}-1-ALL
	STS-{1-6,12-17}-1-{1,13,25,37}
	STS-{1-6,12-17}-1-{1,4,10,13,16,19,25,28,37,40}
	STS-{1-6,12-17}-1-{1,4,7,10,13,16,19,22,25}
	STS-{1-6,12-17}-1-{1,4,7,10-46}
	STS-{1-6,12-17}-1-{1,4,7,10}
	STS-{1-6,12-17}-1-{1,4,7,13,16,19,25,28,37,40,43}
	STS-{1-6,12-17}-1-{1,4,7}
	STS-{1-6,12-17}-1-{1,4}
	STS-{1-6,12-17}-1-{1-12}
	STS-{1-6,12-17}-1-{1-48}
	STS-{1-6,12-17}-ALL
	STS-{1-6,12-17}-{1-12}-1
	STS-{1-6,12-17}-{1-24}-1
	STS-{1-6,12-17}-{1-36}-1
	STS-{1-6,12-17}-{1-4}-1
	STS-{1-6,12-17}-{1-4}-ALL
	STS-{1-6,12-17}-{1-4}-{1,4,7,10-46}
	STS-{1-6,12-17}-{1-4}-{1,4,7}

Table 4-25 CrossConnectId1 (continued)

AID	Pattern
STS (continued)	STS-{1-6,12-17}-{1-4}-{1,4}
	STS-{1-6,12-17}-{1-4}-{1-12}
	STS-{1-6,12-17}-{1-6}
	STS-{2}-{1-2}-{1}-{1,4,7,10}
	STS-{2}-{1-2}-{1}-{1,7}
	STS-{2}-{1-2}-{1}-{1-12}
	STS-{2}-{1-2}-{1}-{1-3}
	STS-{2}-{1-2}-{1}-{1}
	STS-{2}-{1-3}-{1}
	STS-{2}-{1}
	STS-{5,6,12,13}-1-1
	STS-{5,6,12,13}-1-{1,13,25,37-180}
	STS-{5,6,12,13}-1-{1,13,25,37}
	STS-{5,6,12,13}-1-{1,4,7,10,13,16,19,22,25}
	STS-{5,6,12,13}-1-{1,4,7,10-190}
	STS-{5,6,12,13}-1-{1,4,7,10-46}
	STS-{5,6,12,13}-1-{1,4,7,13,16,19,25,28,37,40,43}
	STS-{5,6,12,13}-1-{1,49,97,145}
	STS-{5,6,12,13}-1-{1-192}
	STS-{5,6,12,13}-1-{1-48}
	STS-{5,6}-1
	STS-{5,6}-{1-4}-1
	STS-{5-6}-ALL
	VFAC-{1-6,12-17}-{0-1}

Table 4-25 CrossConnectId1 (continued)

AID	Pattern
VT	ALL
	VT1-{1-4,14-17}-{1-8}-{1-3}-{1-7}-{1-4}
	VT1-{1-4}-1-{1-12}-{1-7}-{1-4}
	VT1-{1-4}-1-{1-48}-{1-7}-{1-4}
	VT1-{1-4}-{1-4}-{1-3}-{1-7}-{1-4}
	VT1-{1-6,12-17}-1-{1-12}-{1-7}-{1-4}
	VT1-{1-6,12-17}-1-{1-48}-{1-7}-{1-4}
	VT1-{1-6,12-17}-1-{1-7}-{1-2}
	VT1-{1-6,12-17}-{1-12}-1-{1-7}-{1-4}
	VT1-{1-6,12-17}-{1-24}-1-{1-7}-{1-4}
	VT1-{1-6,12-17}-{1-36}-1-{1-7}-{1-4}
	VT1-{1-6,12-17}-{1-4}-{1-12}-{1-7}-{1-4}
	VT1-{1-6,12-17}-{1-4}-{1-3}-{1-7}-{1-4}
	VT1-{1-6,12-17}-{1-6}-{1-7}-{1-4}
	VT1-{2}-{1-2}-{1}-{1-12}-{1-7}-{1-4}
	VT1-{2}-{1-2}-{1}-{1-3}-{1-7}-{1-4}
	VT1-{2}-{1-3}-{1}-{1-7}-{1-4}
	VT1-{2}-{1}-{1-7}-{1-3}
	VT1-{5,6,12,13}-1-{1-192}-{1-7}-{1-4}
	VT1-{5,6,12,13}-1-{1-48}-{1-7}-{1-4}
	VT1-{5-6}-1-{1-7}-{1-2}
	VT1-{5-6}-1-{1-7}-{1-4}
	VT2-{1-4,14-17}-{1-8}-{1-3}-{1-7}-{1-3}
	VT2-{1-6,12-17}-1-{1-12}-{1-7}-{1-3}
	VT2-{1-6,12-17}-1-{1-48}-{1-7}-{1-3}
	VT2-{1-6,12-17}-{1-4}-{1-12}-{1-7}-{1-3}
	VT2-{1-6,12-17}-{1-4}-{1-3}-{1-7}-{1-3}
	VT2-{5,6,12,13}-1-{1-192}-{1-7}-{1-3}
	VT2-{5,6,12,13}-1-{1-48}-{1-7}-{1-3}

4.5.11 DS1

(Cisco ONS 15454 only)

Used to access the DS-1 frame layer of the DS3XM. The format is DS1-[SLOT]-[DS3PORT]-[DS1PORT]

Table 4-26 DS1

Pattern	Description
ALL	The ALL AID applies to RTRV-DS1 and RTRV-ALM/COND-DS1 commands only to retrieve all DS1 facilities and DS1-level alarms/conditions on the NE
DS1-{1-6,12-17}-{1-12,13,15,17,19,21,23,25,27,29,31,33,35}-{1-28}	DS1 AIDs for DS3XM-12 (ONS 15454) STS48 Backplane Rate. Ports 1 to12 are always available, odd ports after 12 are available
DS1-{1-6,12-17}-{1-12,13,15,17,19,21,23}-{1-28}	DS1 AIDs for DS3XM-12 (ONS 15454) STS12 Backplane Rate. Ports 1 to 12 are always available, odd ports after 12 are available
DS1-{1-6,12-17}-{1-6}-{1-28}	DS1 AIDs for the DS3XM-6 card (ONS 15454)

4.5.12 ENV

The environmental AID for the AIC/AICI cards

Table 4-27 ENV

Pattern	Description
ALL	The ALL AID applies to retrieve-only commands: RTRV-ALM/COND-ENV, RTRV-ATTR-CONT and RTRV-ATTR-ENV
ENV-IN-ALL	Environmental AID for ALL Environmental alarms on the Cisco ONS 15454, 15327, 15600, 15310-CL
ONS 15454 Environmental AIDs	
ENV-IN-{1-4}	Environmental AID for the AIC Card on the ONS 15454. “IN” is used for Environmental Alarms
ENV-IN-{1-20}	Environmental AID for the AICI Card on the ONS 15454. “IN” is used for Environmental Alarms
ENV-IN-{1-32}	Environmental AID for AICI Card Extensions on the ONS 15454. “IN” is used for Environmental Alarms
ENV-IN-{1-16}	Environmental AID on the ONS 15454. “IN” is used for Environmental Alarms
ENV-OUT-{1-4}	Environmental AID for the AIC/AICI Cards on the ONS 15454. “OUT” is used for Environmental Controls
ENV-OUT-{1-16}	Environmental AID for AICI Card Extensions on the ONS 15454. “OUT” is used for Environmental Controls
ONS 15327 Environmental AIDs	

Table 4-27 ENV (continued)

Pattern	Description
ENV-IN-{1-6}	Environmental AID for the ONS 15327. “IN” is used for Environmental Alarms
ENV-OUT-{1-2}	Environmental AID for the ONS 15327. “OUT” is used for Environmental Controls
ONS 15600 Environmental AIDs	
ENV-IN-ALL	Environmental AID for ALL Environmental alarms on the Cisco ONS 15454, 15327, 15600, 15310-CL
ENV-OUT-{1-16}	Environmental AID for the ONS 15600. “OUT” is used for Environmental Controls
ENV-OUT-ALL	All Environmental Control Output contacts
ONS 15310-CL Environmental AIDs	
ENV-IN-{1-3}	Environmental AID for the ONS 15310-CL. “IN” is used for Environmental Alarms
ENV-OUT-{1-2}	Environmental AID for the ONS 15310-CL. “OUT” is used for Environmental Controls

4.5.13 EQPT

Equipment AIDs are used to access specific cards.

In the ONS 15454, the OC48/OC192 cards can only use the high speed slots (Slot 5, Slot 6, Slot 12, Slot 13).

In the ONS 15327, Slots 1 to 4 are for I/O cards (Ethernet and Optical cards). Slots 5 and 6 are for the XTC cards, and Slots 7 and 8 are for the MIC cards.

In the ONS 15600, Slots 1 through 4 and Slots 11 through 14 are used for I/O cards. Slot 5 and 10 are reserved for the TSC card. Slots 6, 7, and Slots 8, 9 are reserved for the CXC/SSXC card.

Table 4-28 EQPT

Pattern	Description
AIP	The AID for the AIP. It is used for RTRV-INV output only (ONS 15454)
ALL	Only used for RTRV-INV, RTRV-EQPT, and RTRV-ALM/COND-EQPT commands. RTRV-INV returns all the inventory information for the NE. The ONS 15454 includes the I/O cards, controller cards, and the AIP, BP, and FAN. The ONS 15327 includes the I/O cards and controller cards. RTRV-EQPT with ALL AID returns EQPT information on all the slots. RTRV-ALM/COND-EQPT with ALL AID returns EQPT and PWR-A and PWR-B type of alarms/conditions
BIC-ALL	AIDs for the BIC (Backplane Interface Connector), BIC-A and BIC-B. These AIDs are valid only for the RTRV-ALM-EQPT and RTRV-COND-EQPT commands
BIC-{A,B}	AIDs for the BIC (Backplane Interface Connectors). These AIDs are valid only for the RTRV-ALM-EQPT and RTRV-COND-EQPT commands
BP	The AID for the backplane. It is used for RTRV-INV output only (ONS 15454 only)
FAN	The AID for the fan tray. It is used for RTRV-INV output only
PIM-{1-4,11-14}-ALL	Pluggable Interface Module. Applicable for RTRV-EQPT and RTRV-INV commands pertaining to the ONS 15600 ASAP Card only. Format is PIM-[SLOT]-[PIM]-[PPM]

Table 4-28 EQPT (continued)

Pattern	Description
PIM-{1-4,11-14}-{1-4}	Pluggable Interface Module. Applicable for ENT/ED/RTRV/DLT-EQPT and RTRV-INV commands pertaining to the ONS 15600 ASAP Card only. Format is PPM-[SLOT]-[PIM]-[PPM]
PPM-1-{1,2}	Pluggable Port Module AID for the ONS 15310-CL ML-100T-8/CE-100T-8 Card. Format is PPM-[SLOT]-[PPM]
PPM-2-{1,2}	PPM AID for the ONS 15310-CL. Format is PPM-[SLOT]-[PPM]
PPM-{1-4,11-14}-{1-4}-ALL	PPM. Applicable for the RTRV-EQPT and RTRV-INV commands pertaining to the ONS 15600 ASAP Card only. Format is PPM-[SLOT]-[PIM]-[PPM]
PPM-{1-4,11-14}-{1-4}-{1-4}	PPM. Applicable for the ENT/ED/RTRV/DLT-EQPT and RTRV-INV commands pertaining to the ONS 15600 ASAP Card only. Format is PPM-[SLOT]-[PIM]-[PPM]
PPM-{1-6,12-17}-{1-4}	PPM AID for DWDM MXP_2.5G_10G, TXP_MR_10G, TXP_MR_2.5G, TXPP_MR_2.5G, MXP_2.5G_10E, and TXP_MR_10E Cards. Format of AID is PPM-[SLOT]-[PPM]
PPM-{1-6,12-17}-{1-8}	PPM AID for the ONS 15454 MXP_MR_2.5G and MXPP_MR_2.5G Card. Format of AID is PPM-[SLOT]-[PPM]
PWR-ALL	AIDs for the Power Supply Sources. These AIDs are valid only for the RTRV-ALM-EQPT and RTRV-COND-EQPT commands.
PWR-{A,B}	AIDs for the Power Supply Sources. These AIDs are valid only for the RTRV-ALM-EQPT and RTRV-COND-EQPT commands.
SLOT-ALL	All of the NE equipment AIDs
SLOT-{1-14}	EQPT AID for the ONS 15600 where format is SLOT-[SLOT]
SLOT-{1-17}	EQPT AID for the ONS 15454 where format is SLOT-[SLOT]
SLOT-{1-2}	EQPT AID for the ONS 15310-CL where format is SLOT-[SLOT]
SLOT-{1-4,11-14}	ONS 15600 I/O Slots only
SLOT-{1-6,12-17}	Individual equipment AID of the I/O card units or slots for the ONS 15454 where format is SLOT-[SLOT]
SLOT-{1-8}	EQPT AID for ONS 15327 where format is SLOT-[SLOT]

4.5.14 FACILITY

Facilities AIDs are used to access specific ports. Applicable to Cisco ONS 15454, 15327, 15600, 15310-CL.

Note Because the ONS 15310-CL supports more than one type of facility per slot, the FAC-AID format is not supported. The format Tn-, EC1- , and OCn- is used instead.

ONS 15454, 15327, and 15600 Facility AID format:

- Format for Optical and EC1 Facilities Without PPM: FAC-[SLOT]-[PORT]
- Format for Optical Facilities With PPM: FAC-[SLOT]-[PPM]-[PORT]
- Format for Optical Facilities With PPM and PIM: FAC-[SLOT]-[PIM]-[PPM]-[PORT]
- Format for DS1-Flavored Electrical Facilities: FAC-[SLOT]-[PORT]
- Format for DS3-Flavored (Including DS3I) Electrical Facilities: FAC-[SLOT]-[PORT]
- Format for POS Ports: VFAC-[SLOT]-[PORT]
- Format for POS Port with PIM and PPM:VFAC-[SLOT]-[PIM]-[PPM]-[PORT]

ONS 15310-CL Facility AID format:

- Format for Optical Facilities Without PPM: OCn-[SLOT]-[PORT]
- Format for Optical Facilities With PPM: OCn-[SLOT]-[PPM]-[PORT]
- Format for EC1 Facilities: EC1-[SLOT]-[PORT]
- Format for DS1-Flavored Electrical Facilities: T1-[SLOT]-[PORT]
- Format for DS3-Flavored Electrical Facilities: T3-[SLOT]-[PORT]
- Format for POS Ports: VFAC-[SLOT]-[PORT]
- Format for FSTE Ethernet Facilities: FSTE-[SLOT]-[PORT]

Table 4-29 FACILITY

Pattern	Description
ALL	The ALL AID is applicable for RTRV-only commands (RTRV-rr type of commands), for example: RTRV-OC48 with ALL AID returns all OC48 facilities on the node. RTRV-T1 with ALL AID returns all T1 facilities on the node.
EC1-{2}-{1-3}	Facility AIDs for EC1 ports on the 15310-CL-CTX (ONS 15310-CL), where format is EC1-[SLOT]-[PORT]
FAC-{1-4,11-14}-ALL	Facility AID for all I/O Unit or Slot on the ONS 15600, where format is FAC-[SLOT]-ALL
FAC-{1-4,11-14}-{1-16}	Facility AIDs for the 16-Port OC48 (ONS 15600), where format is FAC-[SLOT]-[PORT]
FAC-{1-4,11-14}-{1-4}	Facility AID for the 4-Port OC192 (ONS 15600), where format is FAC-[SLOT]-[PORT]
FAC-{1-4,11-14}-{1-4}-{1-4}-{1}	Facility AID for the ASAP Card with PIM and PPM. Format is FAC-[SLOT]-[PIM]-[PPM]-[PORT]
FAC-{1-4,14-17}-{1-8}	Facilities for an OC3-8 card (ONS 15454) where the format is FAC-[SLOT]-[PORT]

Table 4-29 FACILITY (continued)

Pattern	Description
FAC-{1-4}-1	Facility AIDs for OC12, OC48 (ONS 15327) where the format is FAC-[SLOT]-[PORT]
FAC-{1-4}-{1-4}	Facility AIDs for 4-Port OC3 (ONS 15327) where the format is FAC-[SLOT]-[PORT]
FAC-{1-6,12-17}-1	Facility AID for the 1 Client (CLNT) Port on a TXP_MR_10G, TXP_MR_2.5G, TXP_MR_2.5G or TXPP_MR_2.5G card (ONS 15454) where the format is FAC-[SLOT]-[PORT]
FAC-{1-6,12-17}-ALL	All the facilities of an I/O unit or slot (ONS 15454) where the format is FAC-[SLOT]-[ALL]
FAC-{1-6,12-17}-{0-11}	Facilities for the Ethernet Front-end ports on the ML100T-12 card. Ports are numbered starting with 0 (i.e. the first port is FAC-SLOT-0, second port is FAC-SLOT-1, ..., last port is FAC-SLOT-11 for ML100T-12 and first port is FAC-SLOT-0 and second port is FAC-SLOT-1 for ML1000-2) (ONS 15454). The format is FAC-[SLOT]-[PORT]
FAC-{1-6,12-17}-{0-1}	Facilities for the Ethernet Backend Ports on the ML1000-2 card. Ports are 0-based, (i.e the first port is FAC-SLOT-0 and the second port is FAC-SLOT-1) (ONS 15454). The format is FAC-[SLOT]-[PORT]
FAC-{1-6,12-17}-{1-12,14,16,18, 20,22,24,26,28,30,32,34,36}	Facility AIDs for the DS3XM-12 STS48 Backplane Rate where format is FAC-[SLOT]-[PORT]. Ports 1 through 12 are always available, but only even ports after 12 are available
FAC-{1-6,12-17}-{1-12,14,16,18, 20,22,24}	Facility AIDs for DS3XM-12 STS12 Backplane Rate where format is FAC-[SLOT]-[PORT]. Ports 1 through 12 are always available, but only even ports after 12 are available
FAC-{1-6,12-17}-{1-12}	Facilities AID for the EC1 and DS3 cards (ONS 15454) where format is FAC-[SLOT]-[PORT]
FAC-{1-6,12-17}-{1-4}	Facility AID for the four Client (CLNT) facilities on the MXP_2.5G_10G card. Facility AID for 4-Port G1000/FC_MR-4 Card. Facility AID for creating/editing cross-connects (STS1/VC3, STS3C/VC4, STS6C/VC4-2C, STS9C/VC4-3C, STS12C/VC4-4C, and STS24C/VC4-8C) for the 4-Port G1000/FC_MR-4 Card (ONS 15454) where format is FAC-[SLOT]-[PORT]
FAC-{1-6,12-17}-{1-6}	Facilities for the DS3XM card (ONS 15454) where format FAC-[SLOT]-[PORT]
FAC-{1-6,12-17}-{1}	Facility AID for the 1-Port OC12, OC48AS and OC3 in OSC-CSM cards. Facility AID for the client ports on the MXP/TXP and TXP_MR_2.5G cards (ONS 15454) where format is FAC-[SLOT]-[PORT]
FAC-{1-6}-ALL	Facility AIDs for I/O unit or slots (ONS 15327) where format is FAC-[SLOT]-[ALL]
FAC-{5,6,12,13}-{1}	Facility AID for the OC48/OC192 cards. The OC48/OC192 cards can only use the high speed slots (Slot 5, Slot 6, Slot 12, Slot 13) (ONS 15454) where format is FAC-[SLOT]-[PORT]
FAC-{5-6}-{1-28}	Facility AID for the T1 Ports on the XTC-28-3 (ONS 15327) where format is FAC-[SLOT]-[PORT]
FAC-{5-6}-{1-3}	Facility AIDs on the TR Ports in the XTC-28-3 (ONS 15327) where format is FAC-[SLOT]-[PORT]
FAC-{8,10}-{1}	Facility AID for the OSCM card. The OSCM cards can only use the XC slots (Slot-8, Slot-10) (ONS 15454) where format is FAC-[SLOT]-[PORT]

Table 4-29 FACILITY (continued)

Pattern	Description
FSTE-{1}-{0-7}	Facility AIDs for front end ports on the ML-100T-8 card (ONS 15310-CL), when provisioned in L2L3 mode. Format is FSTE-[SLOT]-[PORT]. Port numbering is 0-based
FSTE-{1}-{1-8}	Facility AIDs for front end ports on the CE-100T-8 card (ONS 15310-CL), when provisioned in Mapper mode. Format is FSTE-[SLOT]-[PORT]. Port numbering is 1-based
OC12-{2}-{1-2}-{1}	Facility AIDs for OC12 ports on the 15310-CL-CTX (ONS 15310-CL) where format is OC12-[SLOT]-[PPM]-[PORT]
OC3-{2}-{1-2}-{1}	Facility AIDs for OC3 ports on the 15310-CL-CTX (ONS 15310-CL) where format is OC3-[SLOT]-[PPM]-[PORT]
T1-{2}-{1-21}	Facility AIDs for T1 ports on the 15310-CL-CTX (ONS 15310-CL) where format is T1-[SLOT]-[PORT]
T3-{2}-{1-3}	Facility AIDs for T3 ports on the 15310-CL-CTX (ONS 15310-CL) where format is T3-[SLOT]-[PORT]
VFAC-{1-4,11-14}-{1-4}-{1-4}-1	Facilities for the back end POS ports on the L1P_ETHERNET PORT on an ASAP Card. Applicable on the ONS15600 only. Format is VFAC-[SLOT]-[PIM]-[PPM]-[PORT]
VFAC-{1-6,12-17}-{0-1}	Facilities for the back end POS ports on the ML-Series card. Port numbering is 0-based (first POS port is VFAC-SLOT-0, second POS port is VFAC-SLOT-1). VC4, VC4-2C, VC4-3C, VC4-4C, VC4-8C for the ML1000 and ML100T Cards (ONS 15454). Format is VFAC-[SLOT]-[PORT]
VFAC-{1-6,12-17}-{1,2}	GFP facilities on the MXP-MR-2.5G and MXPP-MR-2.5G card
VFAC-{1-6,12-17}-{1,2}-{1,8}	GFP Client facilities for MXP-MR-2.5G and MXPP-MR-2.5G cards
VFAC-{1}-{0-1}	Facility AIDs for back end ports on the ML card (ONS 15310-CL), when provisioned in L2L3 mode. Format is VFAC-[SLOT]-[PORT]. Port numbering is 0-based
VFAC-{1}-{1-8}	Facility AIDs for back end ports on the ML card (ONS 15310-CL), when provisioned in L2L3 mode. Format is VFAC-[SLOT]-[PORT]. Port numbering is 1-based

4.5.15 IPADDR

IP Address

Table 4-30 IPADDR

Pattern	Description
111.222.333.444	Standard 4 Part IP Address Notation
ALL	ALL

4.5.16 LINE

(Cisco ONS 15454 only)

The LINE AID is used to access the Optical Transport Section (OTS) layer of optical network units. Applicable only to ONS 15454 AD-1B-xx.x, AD-4B-xx.x, AD-1C-xx.x, AD-2C-xx.x, AB-4C-xx.x, OSC-CSM, OSCM, OPT-BST, OPT-PRE, 4MD-xx.x, 32MUX-O and 32DMX-O cards. The format is LINE-[SLOT]-[PORT]-[DIRECTION].

Table 4-31 LINE

Values	Description
ALL	All of the OTSs of the NE. The ALL AID applies for retrieve-only commands
LINE-{1-6,12-17}-{1-2}-ALL	All the Lines in a OPT-PRE, OCS-CSM, AD-1B, AD-4B, AD-1C, AD-2C, AD-4C units
LINE-{1-6,12-17}-{1-2}-{RX,TX}	The receive/transmit Lines in a OPT-PRE, OCS-CSM, AD-1B, AD-4B, AD-1C, AD-2C, AD-4C units
LINE-{1-6,12-17}-{1-3}-ALL	All the Lines in a OPT-BST units
LINE-{1-6,12-17}-{1-3}-{RX,TX}	The receive/transmit Lines in a OPT-BST units
LINE-{8,10}-{1}-ALL	All the Lines in a OSCM units
LINE-{8,10}-{1}-{RX,TX}	The receive/transmit Lines in an OSCM units

4.5.17 LNKTERM

Link Termination AIDs that are used to access the termination points of a provisionable patchcord.

Table 4-32 LNKTERM

Pattern	Description
ALL	Indicates all the provisionable patchcord terminations on a node. Applicable only for the retrieve commands
LNKTERM-ALL	Indicates all the provisionable patchcord terminations on a node. Applicable only for the retrieve commands
LNKTERM-{1-65535}	Indicates a single provisionable patchcord termination point on a node. Where format is LNKTERM-

4.5.18 OPM

OPM AIDs represent the single wavelength inside an optical power monitoring object

Table 4-33 OPM

Values	Description
OPM-{1-5,12-16}--{1530.33,1531.12, 1531.90,1532.68,1534.25,1535.04, 1535.82,1536.61,1538.19,1538.98, 1539.77,1540.56,1542.14,1542.94, 1543.73,1544.53,1546.12,1546.92, 1547.72,1548.51,1550.12,1550.92, 1551.72,1552.52,1554.13,1554.94, 1555.75,1556.55,1558.17,1558.98, 1559.79,1560.61}	The second index is the slot where the 32-WSS unit is configured. The last index of the wavelength is the value of the wavelength as described in OPTICAL_WLEN

4.5.19 OSC

(Cisco ONS 15454 only)

OSC AIDs are used to access the OSC of the NE

Table 4-34 OSC

Values	Description
ALL	All of the OSCs of the NE. The ALL AID applies to the retrieve-only commands
OSC-RINGID	RINGID is a string of up to six characters, valid characters are [A–Z,0–9] (case insensitive)

4.5.20 PRSLOT

(Cisco ONS 15454 only)

Valid protection slots for the electrical cards

Table 4-35 PRSLOT

Pattern	Description
NULL	Indicates there is no protection group. Used when trying to delete a protection group.
SLOT-1	The No.1 slot of an NE
SLOT-3	The No.3 slot of an NE
SLOT-5	The No.5 slot of an NE
SLOT-13	The No.13 slot of an NE
SLOT-15	The No.15 slot of an NE
SLOT-17	The No.17 slot of an NE

4.5.21 RFILE

File transfer type. Applicable to ONS 15454, 15327, and 15310-CL.

Table 4-36 RFILE

Pattern	Description
RFILE-DB	Transferring the system database
RFILE-PKG	Transferring a software package

4.5.22 STS

SONET frame-level AID set

- STS AID Format for Optical and EC1 Facilities Without PPM: STS-[SLOT]-[PORT]-[STS]
- STS AID Format for Optical Facilities With PPM: STS-[SLOT]-[PPM]-[PORT]-[STS]
- STS AID Format for Optical Facilities With PIM and PPM: STS-[SLOT]-[PIM]-[PPM]-[PORT]-[STS]
- STS AID Format for DS1 Electrical Facilities: STS-[SLOT]-[STS]
- STS AID Format for DS3 (Except DS3I) Electrical Facilities: STS-[SLOT]-[PORT]-[STS]
- STS AID Format for DS3I Electrical Facilities: STS-[SLOT]-[STS]
- STS AID Format for G1000 Card GIGE Facilities: FAC-[SLOT]-[PORT]

Table 4-37 STS

Pattern	Description
ALL	The ALL AID applies to the RTRV-only commands: RTRV-STS with ALL AID retrieves all STS interfaces on the NE. RTRV-STS1 with ALL AID retrieves all STS1 interfaces on the NE. RTRV-STS3c with ALL AID retrieves all STS3c interfaces on the NE.
FAC-{1-4,11-14}-{1-4}-{1-4}-{1}	Dynamically allocated STSs of all widths for the GIGE port on an ASAP Card. Format is FAC-[SLOT]-[PIM]-[PPM]-[PORT]
FAC-{1-6,12-17}-{1-4}	Dynamically allocated STSs of all widths for the G1000-4 card (ONS 15454). Format is FAC-[SLOT]-[PORT]
STS-{1-4,11-14}-{1-16}-1	STS48c AID for 16-Port OC48 (ONS 15600). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-4,11-14}-{1-16}-ALL	All the STS of all path width on the 16-Port OC48 (ONS 15600). Format is STS-[SLOT]-[PORT]-ALL
STS-{1-4,11-14}-{1-16}-{1,13,25,37}	STS12C AID for 16-port OC48 (ONS 15600). Format is STS-[SLOT]-[PORT]-ALL
STS-{1-4,11-14}-{1-16}-{1,25}	STS24C AID for 16-Port OC48 (ONS 15600). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-4,11-14}-{1-16}-{1,4,7,10,-,46}	STS3c AID for 16-Port OC48 (ONS 15600). Format is STS-[SLOT]-[PORT]-[STS]

Table 4-37 STS (continued)

Pattern	Description
STS-{1-4,11-14}-{1-4}-1	STS192c AID for 4-Port OC192 (ONS 15600). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-4,11-14}-{1-4}-ALL	All the STS of all path width on 4-Port OC192 (ONS 15600). Format is STS-[SLOT]-[PORT]-ALL
STS-{1-4,11-14}-{1-4}-{1,13,25,37,-,181}	STS12c AID for 4-Port OC192 (ONS 15600). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-4,11-14}-{1-4}-{1,25,49,73,-,169}	STS24c AID for 4-Port OC192 (ONS 15600). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-4,11-14}-{1-4}-{1,4,7,10,-,190}	STS3c AID for 4-Port OC192 (ONS 15600). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-4,11-14}-{1-4}-{1,49,97,145}	STS48c AID for 4-Port OC192 (ONS 15600). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-4,11-14}-{1-4}-{1,4}-{1}	StS3c AID for the ASAP Card with OC3 PORT provisioned. STS12C AID for the ASAP Card with OC12 Port Provisioned. STS48C AID for the ASAP Card with OC48 Port Provisioned. Format of AID is STS-[SLOT]-[PIM]-[PPM]-[PORT]-[STS]
STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,13,25,37}	STS12C AID for the ASAP Card with OC48 Port Provisioned. Format is STS-[SLOT]-[PIM]-[PPM]-[PORT]-[STS]
STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,25}	STS24C AID for the ASAP Card with OC48 Port Provisioned. Format is STS-[SLOT]-[PIM]-[PPM]-[PORT]-[STS]
STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,4,13,16, 25,28,37,40}	STS9C AID for the ASAP Card with OC48 Port Provisioned. Format is STS-[SLOT]-[PIM]-[PPM]-[PORT]-[STS]
STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,4,7,10,13,16,19,22, 25,28,31,34,37,40,43,46}	STS3C AID for the ASAP Card with OC48 Port Provisioned. Format is STS-[SLOT]-[PIM]-[PPM]-[PORT]-[STS]
STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,4,7}	STS6C AID for the ASAP Card with OC12 Port Provisioned. Format is STS-[SLOT]-[PIM]-[PPM]-[PORT]-[STS]
STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1,4}	STS9C AID for the ASAP Card with OC12 Port Provisioned. Format is STS-[SLOT]-[PIM]-[PPM]-[PORT]-[STS]
STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1-12}	STS1 AID for the ASAP Card with OC12 Port Provisioned. Format is STS-[SLOT]-[PIM]-[PPM]-[PORT]-[STS]
STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1-3}	STS1 AID for the ASAP Card with OC3 Port Provisioned. Format is STS-[SLOT]-[PIM]-[PPM]-[PORT]-[STS]
STS-{1-4,11-14}-{1-4}-{1,4}-{1}-{1-48}	STS1 AID for the ASAP Card with OC48 Port Provisioned. Format is STS-[SLOT]-[PIM]-[PPM]-[PORT]-[STS]
STS-{1-4,11-14}-{1-4}-{1-4}-{1}-ALL	STS1,STS3C,6C,9C,12C,24C,48C AID for the ASAP Card with OCN Port Provisioned. Format is STS-[SLOT]-[PIM]-[PPM]-[PORT]-[STS]
STS-{1-4,11-14}-{1-4}-{1-4}-{1}-{1,4,7,13,16,19,25,28, 31,43}	STS6C AID for the ASAP Card with OC48 Port Provisioned. Format is STS-[SLOT]-[PIM]-[PPM]-[PORT]-[STS]

Table 4-37 STS (continued)

Pattern	Description
STS-{1-4,14-17}-{1-16}-{1-48}	STS1 AID for 16-Port OC48 (ONS 15600). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-4,14-17}-{1-4}-1	STS12C aids for a 4-port OC12 card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-4,14-17}-{1-4}-ALL	All the STSs for a given 4-port OC12 card (OSN 15454). Format is STS-[SLOT]-[PORT]-ALL
STS-{1-4,14-17}-{1-4}-{1,4,7,10}	STS3C for the 4-port OC12 card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-4,14-17}-{1-4}-{1,4,7}	STS6C AIDs for a 4-port OC12 (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-4,14-17}-{1-4}-{1-3}	STS1 AID for the 4-port OC3 card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-4,14-17}-{1-8}-1	STS3C for the 8-port OC3 card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-4,14-17}-{1-8}-ALL	All the STSs for a given 8-port OC3 card (ONS 15454). Format is STS-[SLOT]-[PORT]-ALL
STS-{1-4,14-17}-{1-8}-{1-3}	STS1 AID for the 8-port OC3 card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-4}-1-1	STS48c AID for 1-Port OC48 (ONS 15327). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-4}-1-ALL	STS ALL AID for 1-Port Cards (ONS 15327). Format is STS-[SLOT]-ALL
STS-{1-4}-1-{1,13,25,37}	STS12c AID for 1-Port OC48 (ONS 15327). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-4}-1-{1,4,7,10,-.,46}	STS3c AID for 1-Port OC48 (ONS 15327). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-4}-1-{1,4,7,10}	STS3c AID for 4-Port OC3 and 1-Port OC12 (ONS 15327). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-4}-1-{1,7,13,19,-,43}	STS6c AID for 1-Port OC48 (ONS 15327). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-4}-1-{1,7}	STS6c AID for 1-Port OC12 (ONS 15327). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-4}-1-{1-12}	STS1 AID for 4-Port OC3, 1-Port OC12 (ONS 15327). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-4}-1-{1-48}	STS1 AID for 1-Port OC48 (ONS 15327). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-6,12-17}-1	STS1 AID for a DS1 card (ONS 15454). Format is STS-[SLOT]-[STS]. There is only 1 STS for the DS1 card
STS-{1-6,12-17}-1-1	STS12C AID for a 1-port OC12 card STS48C AID for an OC48AS card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]

Table 4-37 STS (continued)

Pattern	Description
STS-{1-6,12-17}-1-ALL	All the STSs of an STS bandwidth on a single port optical card (ONS 15454). Format is STS-[SLOT]-[PORT]-ALL
STS-{1-6,12-17}-1-{1,13,25,37}	STS12C AIDs for an OC48AS card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-6,12-17}-{1,4,10,13,16,19,25,28,37,40}	STS9C AID for an OC48AS card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-6,12-17}-1-{1,4,7,10,13,16,19,22,25}	STS24C AID for an OC48AS card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-6,12-17}-1-{1,4,7,10-46}	STS3C AID for an OC48AS card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-6,12-17}-1-{1,4,7,10}	STS3C for a 1-port OC12 card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-6,12-17}-1-{1,4,7,13,16,19,25,28,37,40,43}	STS6C AID for an OC48AS card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-6,12-17}-1-{1,4,7}	STS6C AID for an OC12 card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-6,12-17}-1-{1,4}	STS9C AID for a 1-port OC12 card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-6,12-17}-1-{1-12}	STS1 AID for a 1-port OC12 card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-6,12-17}-1-{1-48}	STS1 AID for an OC48AS card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-6,12-17}-ALL	STS ALL AID for the card in the given slot (ONS 15454). Format is STS-[SLOT]-[ALL]
STS-{1-6,12-17}-{1-12}-1	STS1 AID for EC1 and DS3 cards (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-6,12-17}-{1-24}-1	STS1 AIDs for the DS3XM-12 STS12 backplane rate cards. Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-6,12-17}-{1-36}-1	STS1 AIDs for the DS3XM-12 STS48 backplane rate cards. Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-6,12-17}-{1-4}-1	STS3C AID for a 4-port OC3 card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-6,12-17}-{1-4}-ALL	All the STSs for a 4-port OC3 card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-6,12-17}-{1-4}-{1,4,7,10-46}	Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-6,12-17}-{1-4}-{1,4,7}	STS6c AID for 4-Port OC12 (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-6,12-17}-{1-4}-{1,4}	STS9C AID for a 4-port OC12 card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{1-6,12-17}-{1-4}-{1-12}	STS1 AID for a 4-port OC12 card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]

Table 4-37 STS (continued)

Pattern	Description
STS-{1-6,12-17}-{1-6}	STS1 AID for a DS3XM card (ONS 15454). Format is STS-[SLOT]-[STS]
STS-{2}-{1-2}-{1}-{1,4,7,10}	STS3c AID for the OC12 port (ONS 15310-CL). Format is STS-[SLOT]-[PPM]-[PORT]-[STS]
STS-{2}-{1-2}-{1}-{1,7}	STS6c AID for the OC12 port (ONS 15310-CL). Format is STS-[SLOT]-[PPM]-[PORT]-[STS]
STS-{2}-{1-2}-{1}-{1-12}	STS1 AID for the OC12 port (ONS 15310-CL). Format is STS-[SLOT]-[PPM]-[PORT]-[STS]
STS-{2}-{1-2}-{1}-{1-3}	STS1 AID for the OC3 port. Format is STS-[SLOT]-[PPM]-[PORT]-[STS]
STS-{2}-{1-2}-{1}-{1}	STS3c AID for the OC3 port, or STS9C AID for the OC12 port, or STS12c AID for the OC12 port (ONS 15310-CL). Format is STS-[SLOT]-[PPM]-[PORT]-[STS]
STS-{2}-{1-3}-{1}	STS1 AID for the 15310-CL-CTX T3 ports (ONS 15310-CL). Format is STS-[SLOT]-[PORT]-[STS]. The AIDs are port based and presented as 1 STS per port
STS-{2}-{1}	STS1 AID for the 15310-CL-CTX T1 port (ONS 15310-CL). Format is STS-[SLOT]-[STS]. There is only 1 STS for the WBE ports on the 15310-CL-CTX card
STS-{5,6,12,13}-1-1	STS48C AID for an OC48 card STS192 AID for an OC192 card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{5,6,12,13}-1-{1,13,25,37-180}	STS12C AID for an OC192 card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{5,6,12,13}-1-{1,13,25,37}	STS12C AIDs for an OC48 card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{5,6,12,13}-1-{1,4,7,10,13,16,19,22,25}	STS24C AID for an OC48 card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{5,6,12,13}-1-{1,4,7,10-190}	STS3C for an OC192 card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{5,6,12,13}-1-{1,4,7,10-46}	STS3C AID for an OC48 card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{5,6,12,13}-1-{1,4,7,13,16,19,25,28,37,40,43}	STS6C AID for an OC48 card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{5,6,12,13}-1-{1,49,97,145}	STS48C AID for an OC192 card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{5,6,12,13}-1-{1-192}	STS1 AID for an OC192 card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{5,6,12,13}-1-{1-48}	STS1 AID for an OC48 card (ONS 15454). Format is STS-[SLOT]-[PORT]-[STS]
STS-{5,6}-1	STS1 AID for XTC-14, XTC-28-3 for the T1 Port (ONS 15327). Format is STS-[SLOT]-[STS]. There is only 1 STS for the T1 ports

Table 4-37 STS (continued)

Pattern	Description
STS-{5,6}-{1-4}-1	STS1 on a DS3 port on the 327 XTC-28 card
STS-{5-6}-ALL	STS ALL AID for the T1 and T3 Ports within the XTC-14 and XTC-28-3 (ONS 15327). Format is STS-[SLOT]-ALL
VFAC-{1-6,12-17}-{0-1}	Virtual facility AIDs for the ML-Series cards back end POS ports. Both the ML1000-2 and ML100T-12 have two POS ports and are 0-based (ONS 15454). Format is VFAC-[SLOT]-[PORT]

4.5.23 SYN

Synchronization AIDs

Table 4-38 SYN

Pattern	Description
SYNC-NE	NE sync AID

4.5.24 SYN_SRC

Synchronization source

Table 4-39 SYN_SRC

Pattern	Description
BITS-1	Sync source is BITS-1. Format is BITS-[PORT] (ONS 15454, 15327, 15600, 15310-CL)
BITS-2	Sync source is BITS-2. Format is BITS-[PORT] (ONS 15454, 15327, 15600)
FAC-{1-4,11-14}-{1-16}	Sync Source is 16-Port OC48 (ONS 15600). Format is FAC-[SLOT]-[PORT]
FAC-{1-4,11-14}-{1-4}	Sync source is 4-Port OC192. Format is FAC-[SLOT]-[PORT]
FAC-{1-4}-1	Sync Source is the Optical Card (1-Port OC12, OC48) facility in ONS 15327. Format is FAC-[SLOT]-[PORT]
FAC-{1-4}-{1-4}	Sync Source is the Optical Card (4-Port OC3) facility in ONS 15327. Format is FAC-[SLOT]-[PORT]
FAC-{1-6,12-17}-{1-4}	Sync source is the optical card (four-port OC3 and four-port OC12) facility in ONS 15454. Format is FAC-[SLOT]-[PORT]
FAC-{1-6,12-17}-{1}	Sync source is the optical card (one-port OC12 and OC48AS) facility in ONS 15454. Format is FAC-[SLOT]-[PORT]
FAC-{5,6,12,13}-{1}	Sync source is the optical card (OC48,OC192) facility. Format is FAC-[SLOT]-[PORT]
INTERNAL	Set the SYN_SRC to be the system default value. The “Internal” value of the SYN_SRC is only applied for the SYNC-NE AID on the ED-SYNCN command
NONE	Set the SYNC_SRC value to the default value for BITS-OUT. The “NONE” value of SYNC_SRC only applies to the BITS-1 and BITS-2 AID of the ED-SYNCN command

Table 4-39 SYN_SRC (continued)

Pattern	Description
OC12-{2}-{1-2}-{1}	Sync source is the OC12 facility (ONS 15310-CL). Format is OC12-[SLOT]-[PPM]-[PORT]
OC3-{2}-{1-2}-{1}	Sync source is the OC3 facility (ONS 15310-CL). Format is OC3-[SLOT]-[PPM]-[PORT]
SYNC-NE	SYNC-NE source. It is only used in the alarm report or alarm retrieve commands.
T1-{2}-{1-21}	Sync source is the T1 facility (ONS 15310-CL). Format is T1-[SLOT]-[PORT]

4.5.25 SYNC_REF

Synchronization AIDs

ONS 15454 Facility AID format for line timing:

- Format for Optical Facilities Without PPM: FAC-[SLOT]-[PORT]
- Format for Optical Facilities With PPM: FAC-[slot]-[PPM]-[PORT]

ONS 15600 Facility AID format for line timing:

- Format for Optical Without PPM: FAC-[SLOT]-[PORT]
- Format for Optical Facilities With PPM: FAC-[SLOT]-[PPM]-[PORT]
- Format for Optical Facilities With PPM and PIM: FAC-[SLOT]-[PIM]-[PPM]-[PORT]

ONS 15310-CL Facility AID format for line timing:

- Format for Optical Facilities With PPM: OCn-[SLOT]-[PPM]-[PORT] where n={3,12}
- Format for DS1-Flavored Electrical Facilities: T1-[SLOT]-[PORT]

Table 4-40 SYNC_REF

Pattern	Description
ALL	Equivalent to a combination of SYNC-ALL, BITS-1 and BITS-2. This AID is valid only for the commands RTRV-SYNCN, RTRV-ALM-SYNCN and RTRV-COND-SYNCN
SYNC-ALL	All synchronization references
SYNC-NE	NE sync AID
SYNC-{BITS1,BITS2}	BITS1 and BITS2 sync AIDs (not supported on the ONS 15310-CL)

4.5.26 SYNCSW

New synchronization reference that will be used

Table 4-41 SYNCSW

Pattern	Description
INT	Internal clock. The “INT” value of the syncsw is only applied for the SYNC-NE AID on the OPR-SYNCSW command.
PRI	Primary timing reference

Table 4-41 SYNCSW (continued)

Pattern	Description
SEC	Secondary timing reference
THIRD	Third timing reference

4.5.27 UDC

(Cisco ONS 15454 only)

UDC AIDs for F-UDC and DCC-UDC channels on the AICI card. Applicable to ONS 15454. Applicable to ONS 15310-CL (F-UDC only).

Table 4-42 UDC

Pattern	Description
ALL	ALL AID is applicable to RTRV-only commands, for example: RTRV-ALM/COND-UDCF and RTRV-ALM/COND-UDCDCC. It corresponds to a superset of F-UDC and DCC-UDC AIDs
UDC-{F,DCC}-{A,B}	F-UDC and DCC-UDC AIDs for A and B channels

4.5.28 VT

Virtual tributary. Applicable to ONS 15454 and 15327.

- VT1 AID Format for Optical and EC1 Facilities Without PPM: VT1-[SLOT]-[PORT]-[STS]-[VTG]-[VTN]
- VT1 AID Format for Optical Facilities With PPM: VT1-[SLOT]-[PPM]-[PORT]-[STS]-[VTG]-[VTN]
- VT1 AID Format for DS1 Electrical Facilities: VT1-[SLOT]-[STS]-[VTG]-[VTN]
- VT1 AID Format for DS3 Electrical Facilities: VT1-[SLOT]-[PORT]-[STS]-[VTG]-[VTN]

Table 4-43 VT

Pattern	Description
ALL	The ALL AID applies to RTRV-only commands; for example, RTRV-VT and RTRV-VT1 with ALL AID returns all VT1 interfaces on the node
VT1-{1-4,14-17}-{1-8}-{1-3}-{1-7}-{1-4}	8-port OC3 card (ONS 15454)
VT1-{1-4}-1-{1-12}-{1-7}-{1-4}	VT AIDs for 1-Port OC12 (ONS 15327)
VT1-{1-4}-1-{1-48}-{1-7}-{1-4}	VT AIDs for 1-Port OC48 (ONS 15327)
VT1-{1-4}-{1-4}-{1-3}-{1-7}-{1-4}	VT AIDs for 4-Port OC3 (ONS 15327)
VT1-{1-6,12-17}-1-{1-12}-{1-7}-{1-4}	1-port OC12 card (ONS 15454)
VT1-{1-6,12-17}-1-{1-48}-{1-7}-{1-4}	OC48AS card (ONS 15454)
VT1-{1-6,12-17}-1-{1-7}-{1-2}	DS1 card (ONS 15454)
VT1-{1-6,12-17}-{1-12}-1-{1-7}-{1-4}	EC1 card (ONS 15454)
VT1-{1-6,12-17}-{1-24}-1-{1-7}-{1-4}	VT1.5 AIDs for DS3XM-12 STS12 backplane rate cards
VT1-{1-6,12-17}-{1-36}-1-{1-7}-{1-4}	VT1.5 AIDs for DS3XM-12 STS48 backplane rate cards
VT1-{1-6,12-17}-{1-4}-{1-12}-{1-7}-{1-4}	4-port OC12 card (ONS 15454)
VT1-{1-6,12-17}-{1-4}-{1-3}-{1-7}-{1-4}	4-port OC3 card (ONS 15454)
VT1-{1-6,12-17}-{1-6}-{1-7}-{1-4}	DS3XM-6 card (ONS 15454)
VT1-{2}-{1-2}-{1}-{1-12}-{1-7}-{1-4}	VT1 AIDs for OC3 Port on a 15310-CL-CTX card (ONS 15310-CL)
VT1-{2}-{1-2}-{1}-{1-3}-{1-7}-{1-4}	VT1 AIDs for OC3 Port on a 15310-CL-CTX card (ONS 15310-CL)
VT1-{2}-{1-3}-{1}-{1-7}-{1-4}	VT1 AIDs for BBE Port on a 15310-CL-CTX card (ONS 15310-CL). The AIDs are port based and presented as 1 STS per port. VTs are supported only for EC1 ports
VT1-{2}-{1}-{1-7}-{1-3}	VT1 AIDs for T1 (WBE) Port on a 15310-CL-CTX card (ONS 15310-CL). There is only 1 STS for the WBE ports on the 15310-CL-CTX card. There are 7 VT groups that each have 3 VTs within
VT1-{5,6,12,13}-1-{1-192}-{1-7}-{1-4}	OC192 Card (ONS 15454)
VT1-{5,6,12,13}-1-{1-48}-{1-7}-{1-4}	OC48 Card (ONS 15454)

Table 4-43 VT (continued)

Pattern	Description
VT1-{5-6}-1-{1-7}-{1-2}	VT AIDs for T1 Port within XTC-14 (ONS 15327). There is only 1 STS for the T1 ports within the XTC-14 card
VT1-{5-6}-1-{1-7}-{1-4}	VT AID for T1 Port with XTC-28-3 (ONS 15327). There is only 1 STS for the T1 ports within the XTC-28 card
VT2-{1-4,14-17}-{1-8}-{1-3}-{1-7}-{1-3}	8-port OC3 card (ONS 15454)
VT2-{1-6,12-17}-1-{1-12}-{1-7}-{1-3}	1-port OC12 card (ONS 15454)
VT2-{1-6,12-17}-1-{1-48}-{1-7}-{1-3}	OC48AS card (ONS 15454)
VT2-{1-6,12-17}-{1-4}-{1-12}-{1-7}-{1-3}	4-port OC12 card (ONS 15454)
VT2-{1-6,12-17}-{1-4}-{1-3}-{1-7}-{1-3}	4-port OC3 card (ONS 15454)
VT2-{5,6,12,13}-1-{1-192}-{1-7}-{1-3}	OC192 Card (ONS 15454)
VT2-{5,6,12,13}-1-{1-48}-{1-7}-{1-3}	OC48 card (ONS 15454)

4.5.29 WDMANS

(Cisco ONS 15454 only)

This AID is used to access the AONS application of the NE.

Table 4-44 WDMANS

Pattern	Description
AONS-{E,W}	Automatic Optical Node Setup identifier (is per ring direction based)
WDMANS-{E,W}	Automatic Optical Node Setup identifier (is per ring direction based)

4.5.30 WLEN

(Cisco ONS 15454 only)

This AID represents the single wavelength inside an external facility. If the facility is of type OTS (line) the wavelengths contained are all the available in the node: currently 32. If the facility is of type OCH (CHAN) the wavelength is just one and it is the same of the correspondent wavelength customized for that channel.

Table 4-45 WLEN

Pattern	Description
WLEN-{E,W}-{ADD,DROP,EXP}-{1530.33,1531.12,1531.90, 1532.68,1534.25,1535.04,1535.82,1536.61,1538.19,1538.98,1539.77, 1540.56,1542.14,1542.94,1543.73,1544.53,1546.12,1546.92,,1547.72, 1548.51,1550.12,1550.92,1551.72,1552.52,1554.13,1554.94, 1555.75,1556.55,1558.17,1558.98,1559.79,1560.61}	Wavelength identifier

4.6 Parameter Types

This section provides a description of all message parameter types defined for the TL1 messages used in the ONS SONET 15454, 15327, 15310-CL, and 15600. Individual parameters are listed within each command description in Chapter 3, "TL1 Command Descriptions".

4.6.1 ATAG Description

The autonomous message tag (ATAG) is used for message sequencing. There are four streams of autonomous messages and each stream corresponds to a sequence. The sequence numbers increment by one for each autonomous message within that stream. The format and range of ATAG differs for each stream. The four streams are:

1. Alarmed events:

   These include REPT ALM and REPT EVT (except REPT EVT SESSION) messages as well as the REPT SW autonomous message.

   ATAG Format: x.y
   where
   x – sequence number of this alarmed event. This is an integer in the range of 0–9999.
   y – sequence number of the previous alarmed event which is related to this alarmed event. This is an integer in the range of 0-9999.

   If there is no such previous related event, then y will be the same as x. For example, the first time an alarm is raised you will receive the autonomous message:

   TID-000 1998-06-20 14:30:00
   * 1346.1346 REPT ALM T1
   "FAC-1-1:MN,LOS,NSA,,,,:\"Loss Of Signal\",DS1-14"
   ;

   When this alarmed event/condition is cleared, you will receive the autonomous message:

   TID-000 1998-06-20 14:31:00
   A 1349.1346 REPT ALM T1
   "FAC-1-1:CL,LOS,NSA,,,,:\"Loss Of Signal\",DS1-14"
   ;

2. Database change messages:

   The REPT DBCHG message falls into this category.

   ATAG Format: x
   where:
   x – sequence number of the database change update message. This is an integer in the range of 0–9999. For example:

   TID-000 1998-06-20 14:30:00
   A 96 REPT DBCHG
   "TIME=18-01-05,DATE=1970-01-01,SOURCE=2,USERID=CISCO15,
   DBCHGSEQ=96:ENT-EQPT:SLOT-3"
   ;

Note The ATAG is the same as the DBCHGSEQ field in the REPT DBCHG output.

3. PM Reports:

   The REPT PM messages fall into this category.

   ATAG format: x
   where:
   x – sequence number of the PM report. This is an integer in the range of 0–9999. For example:

   TID-000 1998-06-20 14:30:00
   A5 REPT PM DS1
   “FAC-3-1:CVL,10,PRTL,NEND,BTH,15-MIN,05-25,14-46”
   ;

   This sequence number is global across all existing PM schedules.

4. Autonomous messages specific to a TL1 session. These messages are usually related to the security aspect of the TL1 session. Only the autonomous messages REPT EVT SESSION and CAN fall under this category. This is an integer in the range 0–9999.

   For example:

   TID-000 1998-06-20 14:30:00
   A 1 CANC
   “User”
   ;

4.6.2 CTAG Description

The correlation tag (CTAG) is included in each command by the user and is repeated by the NE in the response to allow the user to associate the command and response messages. The valid values for a CTAG are strings of up to 6 characters comprised of identifiers (alphanumeric, beginning with a letter) or non-zero decimal numbers (a string of decimal digits with an optional non-trailing “.”).

A zero in the response field is valid when indicating an error; for example, issuing a semi-colon by itself results in:

```
  TID-000 1998-06-20 14:30:00
M 0 DENY IISP
  /* Input, Garbage */
;
```

4.6.3 TID Description

The TID is the name of the NE where the command is addressed. TID is the Telcordia name for the system.

4.6.4 Parameter Notes

1. If a parameter is set to a value that is inconsistent with something already in the database, and that value is not changed to a consistent value then the command will be denied.
2. If a parameter is set to a value that is consistent with what is already in the database, but another parameter in the same command is incompatible, then the command will be denied.
3. The correct way to issue a command where parameters may be in conflict is to:

a. First issue that command and change all relevant parameters to compatible values,

b. Then issue the command again to change the target values.

For example, OC-N is syncmsg=y, to change SDH to y, ED-OCN needs to be called to set syncmsg=N, then called again to set SDH=y.

4. The attribute defaults have also been presented under RTRV commands, and they can be retrieved only if the RTRV commands follow the card/entity original provision.

5. The default for an optional field of an ED command is either the provisioned default value or the last provisioned value in the previous ED command.