TL1 Command Components

This chapter describes the components of TL1 commands and autonomous messages for the Cisco ONS 15454 and Cisco ONS 15327, Release 4.6, including:

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

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

Table 4-5 Performance Default Values (continued)

Performance	Default
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 15454 and ONS 15327 for commands that have carets (< >) in part of their input format; for example, RTRV-<OCN_TYPE>. A “Yes” in the ONS 15454 or ONS 15327 column indicates that a particular modifier is supported in that platform. A “No” in the ONS 15454 or ONS 15327 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
DS1	Yes	—
EC1	Yes	—
T1	Yes	Yes
T3	Yes	Yes
VT1	Yes	Yes

Table 4-11 Modifier Support (continued)

Modifier	ONS 15454	ONS 15327
STS1	Yes	Yes
STS3C	Yes	Yes
STS6C	Yes	Yes
STS9C	Yes	Yes
STS12C	Yes	Yes
STS24C	Yes	Yes
STS48C	Yes	Yes
STS192C	Yes	No
OC3	Yes	Yes
OC12	Yes	Yes
OC48	Yes	Yes
OC192	Yes	No
G1000	Yes	Yes
GIGE	Yes	No
FSTE	Yes	No
POS	Yes	No
E100	Yes	Yes
E1000	Yes	Yes
CLNT	Yes	No
OCH (TXP, MXP)	Yes	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 Cisco ONS 15454 and Cisco ONS 15327 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 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 15454 and the ONS 15327 except where noted.

4.4.1 ALL

Table 4-15 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}

Table 4-15 ALL (continued)

AID	Pattern
BITS	ALL BITS-ALL BITS-{1,2} SYNC-BITS {1,2}
BLSR	ALL BLSR-RINGID
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	FACILITY STS VT
DS1	ALL DS1-{1-6,12-17}-{1-6}-{1-28}
ENV	ALL ENV-IN-ALL ENV-IN-{1-20} ENV-IN-{1-32} ENV-IN-{1-4} ENV-IN-{1-6} ENV-OUT-ALL ENV-OUT-{1-16} ENV-OUT-{1-2} ENV-OUT-{1-4} ENV-{IN,OUT}-{1-16}
EQPT	AIP ALL BP FAN PWR-ALL PWR-{A,B} SLOT-ALL SLOT-{1-14} SLOT-{1-17} SLOT-{1-6,12-17} SLOT-{1-8}

Table 4-15 ALL (continued)

AID	Pattern
FACILITY	ALL FAC-{1-4,11-14}-ALL FAC-{1-4,11-14}-{1-16} FAC-{1-4,11-14}-{1-4} 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} 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} VFAC-{1-6,12-17}-{0-1}
IPCC	ALL CC-{1–16}
LINE	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}
NBR	AAA.BBB.CC.DD ALL NBR-{1–16}
OSC	ALL OSC-RINGID
PRSLOT	NULL SLOT-1 SLOT-3 SLOT-5 SLOT-13 SLOT-15 SLOT-17
RFILE	RFILE-DB RFILE-PKG

Table 4-15 ALL (continued)

AID	Pattern
STS	ALL 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}-{1-192} 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 4-15 ALL (continued)

AID	Pattern
STS (continued)	STS-{1-6,12-17}-{1-12} 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-{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}-{2-4} STS-{5-6}-ALL VFAC-{1-4}-{1-2} VFAC-{1-6,12-17}-{0-1}
SYN	SYNC-NE
SYN_SRC	BITS-1 BITS-2 FAC-{1-4,11-14}-{1-16} FAC-{1-4,11-14}-{1-4} FAC-{1-4}-1 FAC-{1-4}-{1-4} FAC-{1-6,12-17}-{1-4} FAC-{1-6,12-17}-{1} FAC-{5,6,12,13}-{1} INTERNAL NONE SYNC-NE
SYNC_REF	ALL SYNC-ALL SYNC-NE SYNC-{BITS1,BITS2}
SYNCSW	INT PRI SEC THIRD
UCP	IPCCAID NBRAID STSAID

Table 4-15 ALL (continued)

AID	Pattern
UDC	ALL UDC-{F,DCC}-{A,B}
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}-{1-4}-{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-{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}
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}

4.4.2 AidUnionId

Table 4-16 AidUnionId

AID	Patterns
Facility	ALL FAC-{1-4,11-14}-ALL FAC-{1-4,11-14}-{1-16} FAC-{1-4,11-14}-{1-4} 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} 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} VFAC-{1-6,12-17}-{0-1}

Table 4-16 AidUnionId (continued)

AID	Patterns
STS	ALL 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}-{1-192} 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}

Table 4-16 AidUnionId (continued)

AID	Patterns
STS (continued)	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} STS-{1-6,12-17}-{1-4}-1 STS-{1-6,12-17}-{1-4}-ALLSTS-{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-{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}-{2-4} STS-{5-6}-ALL VFAC-{1-4}-{1-2} VFAC-{1-6,12-17}-{0-1}

Table 4-16 AidUnionId (continued)

AID	Patterns
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}-{1-4}-{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-{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}

4.4.3 AidUnionId1

Table 4-17 AidUnionId1

AID	Patterns
BLSR	ALL BLSR-RINGID

4.4.4 BAND

(Cisco ONS 15454 only)

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

Table 4-18 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

Table 4-18 BAND (continued)

Pattern	Description
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

4.4.5 BITS

Table 4-19 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
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.

4.4.6 BLSR

BLSR AIDs are used to access the specific BLSR of the NE.

Table 4-20 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)

4.4.7 CHANNEL

(Cisco ONS 15454 only)

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

Table 4-21 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
CHAN-{1-6,12-17}-{1-32}-ALL	All the Channels in an Optical Multiplexer/Demultiplexer (32Ch) units
CHAN-{1-6,12-17}-{1-32}-{RX,TX}	The Receive/Transmit Channels in an Optical Multiplexer/Demultiplexer (32Ch) units
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
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
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.
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

4.4.8 COM

Common

Table 4-22 COM

Pattern	Description
COM	Common

4.4.9 CrossConnectId

(Cisco ONS 15454 only)

Table 4-23 CrossConnectId

AID	Pattern
FACILITY	ALL FAC-{1-4,11-14}-ALL FAC-{1-4,11-14}-{1-16} FAC-{1-4,11-14}-{1-4} 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} 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} VFAC-{1-6,12-17}-{0-1}

Table 4-23 CrossConnectId (continued)

AID	Pattern
STS	ALL 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}-{1-192} 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 4-23 CrossConnectId (continued)

AID	Pattern
STS (continued)	STS-{1-6,12-17}-{1-12} 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-{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}-{2-4} STS-{5-6}-ALL VFAC-{1-4}-{1-2} VFAC-{1-6,12-17}-{0-1}

4.4.10 CrossConnectId1

(Cisco ONS 15454 only)

Table 4-24 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}

Table 4-24 CrossConnectId1 (continued)

AID	Pattern
FACILITY	ALL FAC-{1-4,11-14}-ALL FAC-{1-4,11-14}-{1-16} FAC-{1-4,11-14}-{1-4} 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} 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} VFAC-{1-6,12-17}-{0-1}
STS	ALL 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}-{1-192} 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

Table 4-24 CrossConnectId1 (continued)

AID	Pattern
STS (continued)	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} 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-{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}-{2-4} STS-{5-6}-ALL VFAC-{1-4}-{1-2} VFAC-{1-6,12-17}-{0-1}

Table 4-24 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}-{1-4}-{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-{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}

4.4.11 DS1

(Cisco ONS 15454 only)

Used to access the DS-1 frame layer of the DS3XM.

Table 4-25 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}-{1-6}-{1-28}	DS1 AID for the DS3XM card

4.4.12 ENV

The environmental AID for the AIC/AICI cards

Table 4-26 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	All Environmental Control Input contacts
ENV-IN-{1-20}	Environmental AID for AICI Card on the 15454. “IN” is used for Environmental Alarms
ENV-IN-{1-32}	Environmental AID for AIC/AICI Cards on the 15454. “IN” is used for Environmental Alarms
ENV-IN-{1-4}	Environmental AID for AIC Card on the 15454. “IN” is used for Environmental Alarms
ENV-IN-{1-6}	Environmental AID for the 15327. “IN” is used for Environmental Alarms
ENV-OUT-ALL	All Environmental Control Output contacts
ENV-OUT-{1-16}	Environmental AID for AICI Extensions on the 15454. “OUT” is used for Environmental Controls
ENV-OUT-{1-2}	Environmental AID for 15327. “OUT” is used for Environmental Controls
ENV-OUT-{1-4}	Environmental AID for AIC/AICI Cards on the 15454. “OUT” is used for Environmental Controls
ENV-{IN,OUT}-{1-16}	Environmental AID for AIC/AICI Cards on the 15454. “IN” is used for Environmental Alarms. “OUT” is used for Environmental Controls

4.4.13 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 1–4 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.

Table 4-27 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 and PWR-A and PWR-B type of alarms/conditions.
BP	The AID for the backplane. It is used for RTRV-INV output only (ONS 15454 only)

Table 4-27 EQPT (continued)

Pattern	Description
FAN	The AID for the fan tray. It is used for RTRV-INV output only.
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-{1-17}	Equipment AID for ONS 15454
SLOT-{1-6,12-17}	Individual equipment AID of the I/O card units or slots for ONS 15454
SLOT-{1-8}	EQPT AID for ONS 15327

4.4.14 FACILITY

Facilities AIDs are used to access specific ports.

Table 4-28 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.
FAC-{1-4,14-17}-{1-8}	Facilities for an OC3-8 card (ONS 15454)
FAC-{1-4}-1	Facility AIDs for OC12, OC48 (ONS 15327)
FAC-{1-4}-{1-4}	Facility AIDs for 4-Port OC3 (ONS 15327)
FAC-{1-6,12-17}-1	Facility AID for the 1 Client (CLNT) Port on a TXP_MR_10G card or a TXP_MR_2.5G (ONS 15454)
FAC-{1-6,12-17}-ALL	All the facilities of an I/O unit or slot (ONS 15454)
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)
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)
FAC-{1-6,12-17}-{1-12}	Facilities AID for the EC1 and DS3 cards (ONS 15454)
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, STS3C, STS6C, STS9C, STS12C, and STS24C) for the 4-Port G1000/FC-MR-4 Card (ONS 15454)

Table 4-28 FACILITY (continued)

Pattern	Description
FAC-{1-6,12-17}-{1-6}	Facilities for the DS3XM card (ONS 15454)
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)
FAC-{1-6}-ALL	Facility AIDs for I/O unit or slots (ONS 15327)
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)
FAC-{5-6}-{1-28}	Facility AID for the T1 Ports on the XTC-28-3 (ONS 15327)
FAC-{5-6}-{1-3}	Facility AIDs on the TR Ports in the XTC-28-3 (ONS 15327)
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)
VFAC-{1-6,12-17}-{0-1}	Facilities for the backend 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)

4.4.15 IPCC

(Cisco ONS 15454 only)

IP Control Channel AIDs are used to access the IPCC of the UCP.

Table 4-29 IPCC

Pattern	Description
ALL	Indicates the whole IPCCs of the UCP. The “ALL” AID is used for UCP retrieving command input only. A NULL AID in the IPCCs retrieval command defaults to the ALL AID, which returns all the IPCCs of the node
CC-{1-16}	Indicates individual IPCC of the UCP

4.4.16 LINE

(Cisco ONS 15454 only)

The LINE AID is used to access the Optical Transport Section (OTS) layer of optical network units.

Table 4-30 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

4.4.17 NBR

(Cisco ONS 15454 only)

UCP neighbor AIDs are used to access the neighbors of the UCP.

Table 4-31 NBR

Pattern	Description
AAA.BBB.CC.DD	Indicates the UCP neighbor or IP address. It is a character string.
ALL	Indicates the whole neighbors of the UCP. It is used for UCP retrieving command input only.
NBR-{1-16}	Indicates an individual neighbor index (1-16) of the UCP. It is optional in the ENT-UCP-NBR command which returns a neighbor index.

4.4.18 OSC

(Cisco ONS 15454 only)

OSC AIDs are used to access the OSC of the NE

Table 4-32 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)

4.4.19 PRSLOT

(Cisco ONS 15454 only)

Valid protection slots for the electrical cards

Table 4-33 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

4.4.20 RFILE

File transfer type

Table 4-34 RFILE

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

4.4.21 STS

SONET frame-level AID set

Table 4-35 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-{1-6,12-17}-{1-4}	Dynamically allocated STSs of all widths for the G1000-4 card (ONS 15454)
STS-{1-4,11-14}-{1-16}-{1,13,25,37}	STS12C AID for 16-port OC48
STS-{1-4,11-14}-{1-16}-{1,25}	STS24C AID for 16-Port OC48 (ONS 15454)

Table 4-35 STS (continued)

Pattern	Description
STS-{1-4,14-17}-{1-4}-1	STS12C AIDS for a 4-port OC12 card (ONS 15454)
STS-{1-4,14-17}-{1-4}-ALL	All the STSs for a 4-port OC12 card (ONS 15454)
STS-{1-4,14-17}-{1-4}-{1,4,7,10}	STS3C for a 4-port OC12 card (ONS 15454)
STS-{1-4,14-17}-{1-4}-{1,4,7}	STS6C AIDs for a 4-port OC12 (ONS 15454)
STS-{1-4,14-17}-{1-4}-{1-3}	STS1 AID for a 4-port OC3 card (ONS 15454)
STS-{1-4,14-17}-{1-8}-1	STS3C for an 8-port OC3 card (ONS 15454)
STS-{1-4,14-17}-{1-8}-ALL	All the STSs for an 8-port OC3 card (ONS 15454)
STS-{1-4,14-17}-{1-8}-{1-3}	STS1 AID for an 8-port OC3 card (ONS 15454)
STS-{1-4}-1-1	STS48c AID for 1-Port OC48 (ONS 15327)
STS-{1-4}-1-ALL	STS ALL AID for 1-Port Cards (ONS 15327)
STS-{1-4}-1-{1,13,25,37}	STS12c AID for 1-Port OC48 (ONS 15327)
STS-{1-4}-1-{1,4,7,10,-.,46}	STS3c AID for 1-Port OC48 (ONS 15327)
STS-{1-4}-1-{1,4,7,10}	STS3c AID for 4-Port OC3 and 1-Port OC12 (ONS 15327)
STS-{1-4}-1-{1,7,13,19,-,43}	STS6c AID for 1-Port OC48 (ONS 15327)
STS-{1-4}-1-{1,7}	STS6c AID for 1-Port OC12 (ONS 15327)
STS-{1-4}-1-{1-12}	STS1 AID for 4-Port OC3, 1-Port OC12 (ONS 15327)
STS-{1-4}-1-{1-48}	STS1 AID for 1-Port OC48 (ONS 15327)
STS-{1-6,12-17}-1	STS1 AID for a DS1 card (ONS 15454)
STS-{1-6,12-17}-1-1	STS12C AID for a 1-port OC12 card STS48C AID for an OC48AS card (ONS 15454)
STS-{1-6,12-17}-1-ALL	All the STSs of an STS bandwidth on a single port optical card (ONS 15454)
STS-{1-6,12-17}-1-{1,13,25,37}	STS12C AIDs for an OC48AS card (ONS 15454)
STS-{1-6,12-17}-{1,4,10,13,16,19,25,28,37,40}	STS9C AID for an OC48AS card (ONS 15454)
STS-{1-6,12-17}-1-{1,4,7,10,13,16,19,22,25}	STS24C AID for an OC48AS card (ONS 15454)
STS-{1-6,12-17}-1-{1,4,7,10-46}	STS3C AID for an OC48AS card (ONS 15454)
STS-{1-6,12-17}-1-{1,4,7,10}	STS3C for a 1-port OC12 card (ONS 15454)
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)
STS-{1-6,12-17}-1-{1,4,7}	STS6C AID for an OC12 card (ONS 15454)
STS-{1-6,12-17}-1-{1,4}	STS9C AID for a 1-port OC12 card (ONS 15454)
STS-{1-6,12-17}-1-{1-12}	STS1 AID for a 1-port OC12 card (ONS 15454)
STS-{1-6,12-17}-1-{1-48}	STS1 AID for an OC48AS card (ONS 15454)
STS-{1-6,12-17}-ALL	STS ALL AID for the card in the given slot (ONS 15454)

Table 4-35 STS (continued)

Pattern	Description
STS-{1-6,12-17}-{1-12}	STS1 AID for EC1 and DS3 cards (ONS 15454)
STS-{1-6,12-17}-{1-4}-1	STS3C AID for a 4-port OC3 card (ONS 15454)
STS-{1-6,12-17}-{1-4}-ALL	All the STSs for a 4-port OC3 card (ONS 15454)
STS-{1-6,12-17}-{1-4}-{1,4,7}	STS6c AID for 4-PortOC12 (ONS 15454)
STS-{1-6,12-17}-{1-4}-{1,4}	STS9C AID for a 4-port OC12 card (ONS 15454)
STS-{1-6,12-17}-{1-4}-{1-12}	STS1 AID for a 4-port OC12 card (ONS 15454)
STS-{1-6,12-17}-{1-6}	STS1 AID for a DS3XM card (ONS 15454)
STS-{5,6,12,13}-1-1	STS48C AID for an OC48 card STS192 AID for an OC192 card (ONS 15454)
STS-{5,6,12,13}-1-{1,13,25,37-180}	STS12C AID for an OC192 card (ONS 15454)
STS-{5,6,12,13}-1-{1,13,25,37}	STS12C AIDs for an OC48 card (ONS 15454)
STS-{5,6,12,13}-1-{1,4,7,10,13,16,19,22,25}	STS24C AID for an OC48 card (ONS 15454)
STS-{5,6,12,13}-1-{1,4,7,10-190}	STS3C for an OC192 card (ONS 15454)
STS-{5,6,12,13}-1-{1,4,7,10-46}	STS3C AID for an OC48 card (ONS 15454)
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)
STS-{5,6,12,13}-1-{1,49,97,145}	STS48C AID for an OC192 card (ONS 15454)
STS-{5,6,12,13}-1-{1-192}	STS1 AID for an OC192 card (ONS 15454)
STS-{5,6,12,13}-1-{1-48}	STS1 AID for an OC48 card (ONS 15454)
STS-{5,6}-1	STS1 AID for XTC-14, XTC-28-3 for the T1 Port (ONS 15327)
STS-{5,6}-{2-4}	STS1 AID for XTC-14, XTC-28-3 T3 Ports (ONS 15327)
STS-{5-6}-ALL	TS ALL AID for the T1 and T3 Ports within the XTC-14 and XTC-28-3 (ONS 15327)
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)

4.4.22 SYN

Synchronization AIDs

Table 4-36 SYN

Pattern	Description
SYNC-NE	NE sync AID

4.4.23 SYN_SRC

Synchronization source

Table 4-37 SYN_SRC

Pattern	Description
BITS-1	Sync source is BITS-1
BITS-2	Sync source is BITS-2
FAC-{1-4,11-14}-{1-4}	Sync source is 4-Port OC192 (ONS 15454)
FAC-{1-4}-1	Sync Source is the Optical Card (1-Port OC12, OC48) facility in ONS 15327
FAC-{1-4}-{1-4}	Sync Source is the Optical Card (4-Port OC3) facility in ONS 15327
FAC-{1-6,12-17}-{1-4}	Sync source is the optical card (four-port OC3 and four-port OC12) facility in ONS 15454
FAC-{1-6,12-17}-{1}	Sync source is the optical card (one-port OC12 and OC48AS) facility in ONS 15454
FAC-{5,6,12,13}-{1}	Sync source is the optical card (OC48,OC192) facility in ONS 15454
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.
SYNC-NE	SYNC-NE source. It is only used in the alarm report or alarm retrieve commands.

4.4.24 SYNC_REF

Synchronization AIDs

Table 4-38 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-ALM-SYNCN and RTRV-COND-SYNCN
SYNC-ALL	All synchronization references
SYNC-NE	NE sync AID
SYNC-{BITS1,BITS2}	BITS1 and BITS2 sync AIDs

4.4.25 SYNCSW

New synchronization reference that will be used

Table 4-39 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
SEC	Secondary timing reference
THIRD	Third timing reference

4.4.26 UCP

(Cisco ONS 15454 only)

UCP alarm AID

Table 4-40 UCP

Pattern	Description
IPCCAID	Indicates UCP Control Channel AIDs, in the type of "CC-CCID"
NBRAID	Indicates UCP Neighbor AIDs, in the type of "CC-NEIGHBORID"
STSAID	Indicates UCP STS Circuit AIDs, in the type of "STS-SLOT#-STS#"

4.4.27 UDC

(Cisco ONS 15454 only)

UDC AIDs for F-UDC and DCC-UDC channels on the AICI card

Table 4-41 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

4.4.28 VT

Virtual tributary

Table 4-42 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}-{1-4}-{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 card (ONS 15454)
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}	VT AIDs for 1-port OC48 (ONS 15327)
VT1-{5-6}-1-{1-7}-{1-2}	VT AIDs for T1 Port within XTC-14 (ONS 15327)
VT1-{5-6}-1-{1-7}-{1-4}	VT AID for T1 Port with XTC-28-3 (ONS 15327)
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)

4.4.29 WDMANS

(Cisco ONS 15454 only)

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

Table 4-43 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)

4.4.30 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 4-44 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

4.5 Parameter Types

This section provides a description of all message parameter types defined for the TL1 messages used in the ONS 15454 and ONS 15327. The TL1 message descriptions frequently refer to this section.

4.5.1 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”
   ;

4.5.2 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 */
;
```

4.5.3 TID Description

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

4.5.4 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.

4.5.5 ALL_MONTYPE

Monitoring type list

Table 4-45 ALL_MONTYPE Values

Values	Description
AISSP	Alarm Indication Signal Seconds—Path
BBE-PM	OTN—Background Block Errors—Path Monitor Point
BBE-SM	OTN—Background Block Errors—Section Monitor Point
BBER-PM	OTN—Background Block Error Ratio—Path Monitor Point expressed as 1/10th of a percentage.
BBER-SM	OTN—Background Block Error Ratio—Section Monitor Point expressed as 1/10th of a percentage.
BIEC	FEC—Bit Errors Corrected
CGV	8B10B—Code Group Violations
CVCPP	Coding Violations—CP-Bit Path

Table 4-45 ALL_MONTYPE Values (continued)

Values	Description
CVL	Coding Violations—Line
CVP	Coding Violations—Path
CVS	Coding Violations—Section
CVV	Coding Violations—Section
DCG	8B10B—Data Code Groups
ES-PM	OTN—Errored Seconds—Path Monitor Point
ES-SM	OTN—Errored Seconds—Section Monitor Point
ESCPP	Errored Seconds—CP—Bit Path
ESL	Errored Seconds—Line
ESP	Errored Seconds—Path
ESR	Errored Second—Ratio
ESR-PM	Errored Seconds Ratio—Path monitor Point expressed as 1/10th of a percentage
ESR-SM	Errored Seconds Ratio—Section monitor Point expressed as 1/10th of a percentage
ESS	Errored Seconds—Section
ESV	Errored Seconds—VT Path
FC-PM	OTN—Failure Count—Path Monitor Point
FC-SM	OTN—Failure Count—Section Monitor Point
FCP	Failure Count—Line
IOS	8B10B- Idle Ordered Sets
IPC	Invalid Packet Count
LAT-AVG	Average Laser Temperature current in 1/256 degrees Celsius
LAT-HIGH	Laser Temperature in 1/256 degrees Celsius Measured range [-40.000 C, 125.000 C]
LAT-LOW	Laser Temperature in 1/256 degrees Celsius Measured range [-40.000 C, 125.000 C]
LAT-MAX	Maximum Laser Temperature in 1/256 degrees Celsius Measured range [-40.000 C, 125.000 C]
LAT-MIN	Minimum Laser Temperature in 1/256 degrees Celsius Measured range [-40.000 C, 125.000 C]
LBCL-AVG	Average Laser Bias current in uA
LBCL-HIGH	High Laser Bias current in uA
LBCL-LOW	Low Laser Bias current in uA
LBCL-MAX	Max Laser Bias current in uA
LBCL-MIN	Minimum Laser Bias current in uA
LOSSL	Loss of Signal Seconds—Line
NIOS	8B10B—Non Idle Ordered Sets

Table 4-45 ALL_MONTYPE Values (continued)

Values	Description
NPJC-PDET	PPJC-PDET:Negative Pointer Justification
NPJC-PGEN	PPJC-PGEN:Negative Pointer Justification
OBED	FEC—One Bit Errors Detected
OPR-AVG	Average Receive Power in 1/10 uW
OPR-HIGH	Receive power in 1/10 uW Measured value [-40.0 dBm,+30.0 dBm]
OPR-LOW	Receive power in 1/10 uW Measured value [-40.0 dBm,+30.0 dBm]
OPR-MAX	Maximum Receive Power in 1/10 uW
OPR-MIN	Minimum Receive Power in 1/10 uW
OPT-AVG	Average Transmit Power in 1/10 uW
OPT-HIGH	Transmit power in 1/10 uW. Measured value [-40.0 dBm,+30.0 dBm]
OPT-LOW	Transmit power in 1/10 uW. Measured value[-40.0 dBm,+30.0 dBm]
OPT-MAX	Maximum Transmit Power in 1/10 uW
OPT-MIN	Minimum Transmit Power in 1/10uW
OPWR-AVG	Optical Power—Average Interval Value in 1/10th of dBm
OPWR-MAX	Optical Power—Maximum Interval Value in 1/10th of dBm
OPWR-MIN	Optical Power—Minimum Interval Value in 1/10th of dBm
PPJC-PDET	PPJC-PDET:Positive Pointer Justification
PPJC-PGEN	PPJC-PGEN:Positive Pointer Justification
PSC	Protection Switching Count
PSC-R	Protection Switching Count—Ring
PSC-S	Protection Switching Count—Span
PSC-W	Protection Switching Count—Working
PSD	Protection Switching Duration
PSD-R	Protection Switching Duration—Ring
PSD-S	Protection Switching Duration—Span
PSD-W	Protection Switching Duration—Working
RXT-AVG	Average Receiver Temperature
RXT-HIGH	High Alarm Threshold level for Receiver Temperature
RXT-LOW	Low Alarm Threshold level for Receiver Temperature Measured range [-40.000 C,125.000 C]
RXT-MAX	Receiver Temperature Max PM value Measured range [-40.000 C, 125.000 C]
RXT-MIN	Receiver Temperature Min PM value Measured range [-40.000 C, 125.000 C]
SASCPP	Severely Errored Framing/AIS Second—CP-Bit Path
SASP	Severely Errored Framing/AIS Seconds Path
SEFS	Severely Errored Framing Seconds
SES-PM	OTN—Severely Errored Second—Path

Table 4-45 ALL_MONTYPE Values (continued)

Values	Description
SES-SM	OTN—Severely Errored Second—Section Monitor Point
SESCPP	Severely Errored Second—CP-Bit Path
SESL	Severely Errored Second—Line
SESP	Severely Errored Second—Path
SESR-PM	OTN—Severely Errored Second Ratio—Path Monitor Point expressed as 1/10th of a percentage
SESR-SM	OTN—Severely Errored Second Ratio—Section Monitor Point expressed as 1/10th of a percentage
SESS	Severely Errored Second—Section
SESV	Severely Errored Second—VT Path
UAS-PM	OTN—Unavailable Second—Path Monitor Point
UAS-SM	OTN—Unavailable Second—Section Monitor Point
UASCPP	Unavailable Second—CP-Bit Path
UASL	Unavailable Second—Line
UASP	Unavailable Second—Path
UASV	Unavailable Second—VT Path
UNC-WORDS	FEC—Uncorrectable Words
VPC	Valid Packet Count

4.5.6 ALL_THR

Threshold list

Table 4-46 ALL_THR Value

Values	Description
T-AISSP	Alarm Indication Signal Seconds—Path
T-BBE-PM	OTN TCA. Background Block Errors—Path Monitor Point
T-BBE-SM	OTN TCA. Background Block Errors—Section Monitor Point
T-BBEHP	Background Block Errors—High Order Path
T-BBEL	Background Block Errors—Line
T-BBELP	Background Block Errors—Low Order Path (VC3/VC12)
T-BBEM	Background Block Errors- Multiplex Section
T-BBEP	Background Block Errors—High Order Path
T-BBEPR	Background Block Errors
T-BBER	Background Block Errors—Regenerator Section
T-BBER-PM	Background Block Errors—Path Level OTN
T-BBER-SM	Background Block Errors—Section Level OTN

Table 4-46 ALL_THR Value (continued)

Values	Description
T-BBER-TCM1	Background Block Errors—Tandem1 Level OTN
T-BBER-TCM2	Background Block Errors—Tandem2 Level OTN
T-BBERS	Background Block Errors—Regenerator Section
T-BBESR	Background Block Errors
T-BBEV	Background Block Errors
T-BIEC	FEC TCA. Bit Errors Corrected
T-CGV	8B10B—Code Group Violations TCA
T-CSS	Controlled Slipped Seconds
T-CSS-P-FE	8B10B
T-CVCPP	Coding Violations—CP-Bit Path
T-CVL	Coding Violations—Line
T-CVP	Coding Violations—Path
T-CVS	Coding Violations—Section
T-CVV	Coding Violations—VT Path
T-DCG	8B10B TCA. Data Code Groups
T-EBHP	EB—High Order Path
T-EBLP	EB Low Order Path VC3/VC12
T-EBMS	EB Multiplex Section
T-EBP	EB Line Path
T-EBRS	EB Regenerator Section
T-ES-PM	OTN TCA. Errored Seconds—Path Monitor Point
T-ES-SM	OTN TCA. Errored Seconds—Section Monitor Point
T-ESCPP	Errored Seconds—CP-Bit Path
T-ESHP	ED High Order Path VC4/VC4-nc
T-ESL	Errored Seconds—Line
T-ESLP	ES Low Order PAth VC3/VC12
T-ESMS	ES Multiplex Section
T-ESP	Errored Seconds—Path
T-ESR	ES—Regenerator Section
T-ESR-PM	ES—Regenerator Section—Path Level OTN
T-ESR-SM	ES—Regenerator Section—Section Level OTN
T-ESR-TCM1	ES—Regenerator Section—Tandem1 Level OTN
T-ESR-TCM2	ES—Regenerator Section—Tandem2 Level OTN
T-ESRS	ES Regenerator Section
T-ESS	Errored Seconds—Section
T-ESV	Errored Seconds—VT Path

Table 4-46 ALL_THR Value (continued)

Values	Description
T-FC-PM	OTN TCA. Failure Count—Path Monitor Point
T-FC-SM	OTN TCA. Failure Count—Section Monitor Point
T-FCHP	FC High Order Path
T-FCLP	FC Low Order Path
T-FCMS	FC Multiplex Section
T-FCP	Failure Count—Line
T-HOPWR	Optical Power—High Threshold crossed in 1/10th of dBm
T-GAIN-MAX	TCA—Maximum Gain TCA. Applicable to optical service channel cards, optical amplifier cards, dispersion compensation units, multiplex or and demultiplexor cards and OADM cards only
T-GAIN-MIN	TCA—Minimum Gain TCA. Applicable to optical service channel cards, optical amplifier cards, dispersion compensation units, multiplexor and demultiplexor cards and OADM cards
T-GPC	8B10B TCA. Good Packet Count
T-IOS	8B10B TCA. Idle Ordered Sets
T-IPC	Invalid Packet Count
T-LBCL-HWT	Laser Level TCA. Laser Bias current in uA. Low/High Warning Threshold
T-LOPWR	Optical Power—Low Threshold crossed in 1/10th of dBm
T-LOSSL	Loss of Signal Seconds—Line
T-NIOS	8B10B TCA. Non Idle Ordered Sets
T-OBED	FEC TCA. One Bit Errors Detected
T-OPR-HWT	Laser Level TCA. Receive power in 1/10 uW. Low/High Warning Threshold
T-OPR-LWT	Laser Level TCA. Receive power in 1/10 uW. Low/High Warning Threshold
T-OPT-HWT	Laser Level TCA. Transmit power in 1/10 uW. Low/High Warning Threshold
T-OPT-LWT	Laser Level TCA. Transmit power in 1/10 uW. Low/High Warning Threshold
T-OPWR-MAX	Optical Power—High Threshold crossed
T-OPWR-MIN	Optical Power—Low Threshold crossed
T-PJ-DET	Pointer Justification Detected
T-PJ-DIFF	Pointer Justification Diff
T-PJ-GEN	Pointer Justification Generated
T-PJNEG	PPJC-PDET:Negative Pointer Justification
T-PJNEG-GEN	PPJC-PGEN:Negative Pointer Justification
T-PJPOS	PPJC-PDET:Positive Pointer Justification
T-PJPOS-GEN	PPJC-PGEN:Positive Pointer Justification
T-PSC	Protection Switching Count
T-PSC-R	Protection Switching Count
T-PSC-S	Protection Switching Count

Table 4-46 ALL_THR Value (continued)

Values	Description
T-PSC-W	Protection Switching Count
T-PSD	Protection Switching Duration
T-PSD-R	Protection Switching Duration
T-PSD-S	Protection Switching Duration
T-PSD-W	Protection Switching Duration
T-RX-TEMP-MAX	Receiver Temperature Max TCA (applicable to MXP/TXP cards)
T-SASCPP	Severely Errored Framing/AIS Second—CP-Bit Path
T-SASP	Severely Errored Framing/AIS Seconds
T-SEFS	Severely Errored Framing Seconds
T-SEFSRS	SEFRS
T-SES-PM	OTN TCA. Severely Errored Second—Path Monitor Point
T-SES-SM	OTN TCA. Severely Errored Second—Section Monitor Point
T-SESCPP	Severely Errored Second—CP-Bit Path
T-SESHP	SES High Order Path
T-SESL	Severely Errored Second—Line
T-SESLP	SES Low Order Path
T-SESMS	SES Multiplex Section
T-SESP	Severely Errored Second—Path
T-SESR-PM	SESR—Path Level OTN
T-SESR-SM	SESR—Section Level OTN
T-SESR-TCM1	SESR—Tandem1 Level OTN
T-SESR-TCM2	SESR—Tandem2 Level OTN
T-SESRS	SES Regeneration Section
T-SESS	Severely Errored Second—Section
T-SESV	Severely Errored Second—VT Path
T-UAS-PM	OTN TCA. Unavailable Second—Path Monitor Point
T-UAS-SM	OTN TCA. Unavailable Second—Path Monitor Point
T-UASCPP	Unavailable Second—CP-Bit Path
T-UASHP	UA High Order Path
T-UASL	Unavailable Second—Line
T-UASLP	UA Low Order Path
T-UASMS	UA Multiplex Section
T-UASP	Unavailable Second—Path
T-UASV	Unavailable Second—VT Path
T-UNC-WORDS	FEC TCA. UnCorrectable Words

Table 4-46 ALL_THR Value (continued)

Values	Description
T-VOA-MAX	Variable Optical Attenuation Maxed TCA. Applicable to optical service channel cards, optical amplifier cards, dispersion compensation units, multiplexor and demultiplexor cards and OADM cards only
T-VOA-MIN	Variable Optical Attenuation Min TCA. Applicable to optical service channel cards, optical amplifier cards, dispersion compensation units, multiplexor and demultiplexor cards and OADM cards only
T-VPC	Valid Packet Count

4.5.7 ALM_THR

Alarm Threshold list for MXP_2.5G_10G, TXP_MR_10G, OSCM, OSC-CSM, OPT-PRE, OPT-BST, MD-4, MUX-32, DMX-32, AD-1C, AD-2C, AD-4C, AD-1B, and AD-4B cards.

Table 4-47 ALM_THR Values

Values	Description
BATV-EHIGH	Battery Voltage - Extremely High
BATV-ELOW	Battery Voltage - Extremely Low
BATV-HIGH	Battery Voltage - High
BATV-LOW	Battery Voltage - Low
GAIN-HDEG	Gain not reached—High Degrade Threshold
GAIN-HFAIL	Gain not reached—High Failure Threshold
GAIN-LDEG	Gain not reached—Low Degrade Threshold
GAIN-LFAIL	Gain not reached—Low Failure Threshold
LBCL-HIGH	Laser Bias current in uA as 1/10% High Warning Threshold, Low Warning Threshold Measured value [0.0%, 100.0%]
OPR-HIGH	Receive power in 1/10 uW Measured value [-40.0 dBm,+30.0 dBm]
OPR-LOW	Receive power in 1/10 uW Measured value [-40.0 dBm,+30.0 dBm
OPT-HIGH	Transmit power in 1/10 uW. Measured value [-40.0 dBm,+30.0 dBm]
OPT-LOW	Transmit power in 1/10 uW. Measured value [-40.0 dBm,+30.0 dBm]
OPWR-HDEG	Optical Power—High Degrade Threshold
OPWR-HFAIL	Optical Power—High Failure Threshold
OPWR-LDEG	Optical Power—Low Degrade Threshold
OPWR-LFAIL	Optical Power—Low Failure Threshold
VOA-HDEG	VOA Attenuation—High Degrade Threshold
VOA-HFAIL	VOA Attenuation—High Failure Threshold
VOA-LDEG	VOA Attenuation—Low Degrade Threshold
VOA-LFAIL	VOA Attenuation—Low Failure Threshold
XCVR-HIGH	Transceiver voltage in 1/10 mV Measure value [0.0 mV, 10000.0 mV]

4.5.8 ALS_CFG

Specifies the type of check for ALS detection mode

Table 4-48 ALS_CFG Values

Values	Description
ALL	The ALS is applied checking all the received signals (Line and OSC)
OSC	The ALS is applied checking only the received OSC signal
RX	The ALS is applied checking only the received Line signal

4.5.9 ALS_MODE

This type specifies the working mode for the Automatic Laser Shutdown (ALS) functionality.

Table 4-49 ALS_MODE Values

Values	Description
AUTO	Automatic
DISABLED	Disabled
MAN	Manual
MAN-RESTART	Manual Restart for Test

4.5.10 ALS_RESTART

Automatic Laser Shutdown for the G1000 card.

Note ALS_RESTART is separate from "4.5.9 ALS_MODE" section on page 4-47.

Table 4-50 ALS_RESTART Values

Values	Description
AUTO_RESTART	Automatic Laser Shutdown Automatic Restart
MAN_RESTART	Automatic Laser Shutdown Manual Restart
MAN_TEST_RESTART	Automatic Laser Shutdown Restart Test

4.5.11 AMPL_MODE

Defines the Amplifier control mode

Table 4-51 AMPL_MODE Values

Values	Description
GAIN	The Amplifier always maintains a fixed Gain
POWER	The Amplifier maintains the Output Power to a fixed value

4.5.12 AWG_STATUS

AWG status list

Table 4-52 AWG_STATUS Values

Values	Description
ON	The AWG is on
WARM-UP	The AWG is warming up

4.5.13 BITS_LineBuildOut

BITS Line buildout

Table 4-53 BITS_LineBuildOut Values

Values	Description
0–133	BITS line buildout range is 0–133
134–266	BITS line buildout range is 134–266
267–399	BITS line buildout range is 267–399
400–533	BITS line buildout range is 400–533
534–655	BITS line buildout range is 534–655

4.5.14 BLSR_MODE

BLSR mode

Table 4-54 BLSR_MODE Values

Values	Description
2F	Two fiber BLSR
4F	Four fiber BLSR

4.5.15 BLSR_PTH_STATE

Indicates the BLSR path state only if the port is on the BLSR

Table 4-55 BLSR_PTH_STATE Values

Values	Description
PCAPTHACT	Indicates the BLSR ring un-switched and its PCA path is in the active state
PCAPTHSTB	Indicates the BLSR ring switched and its PCA path is in the standby state
PROTPTHACT	Indicates the BLSR ring switched and its protection path is in the active state
WKGPTHACT	Indicates the BLSR ring un-switched and its working path is in the active state
WKGPTHSTB	Indicates the BLSR ring switched and its working path is in the standby state

4.5.16 BLSR_PTH_TYPE

Indicates the BLSR path TYPE only if the port is on the BLSR

Table 4-56 BLSR_PTH_TYPE Values

Values	Description
NON-PCA	Indicates the AID is on the working path, or the XC created protection path
PCA	Indicates the AID is on the BLSR PCA path

4.5.17 BLSR_TYPE

BLSR type of an OCN port

Table 4-57 BLSR_TYPE Values

Values	Description
EASTPROT	Identifies that the OCN port is an east protecting port
EASTWORK	Identifies that the OCN port is an east working port
WESTPROT	Identifies that the OCN port is a west protecting port
WESTWORK	Identifies that the OCN port is a west working port

4.5.18 C2_BYTE

Indicates C2 byte Hex Code

Table 4-58 C2_BTYE Values

Values	Description
0X00	Unequipped
0X01	Equipped-Non Specific payload
0X02	VT-Structured STS-1 SPE
0X03	Locked VT Mode
0X04	Asynchronous Mapping for DS3

Table 4-58 C2_BTYE Values (continued)

Values	Description
0X12	Asynchronous Mapping for DS4NA
0X13	Mapping for ATM
0X14	Mapping for DQDB
0X15	Asynchronous Mapping for FDDI
0X16	HDLC-Over-SONET Mapping
0XE1	VT-structured STS-1 SPE with 1VTx payload defect
0XE2	VT-structured STS-1 SPE with 2VTx payload defects
0XE3	VT-structured STS-1 SPE with 3VTx payload defects
0XE4	VT-structured STS-1 SPE with 4VTx payload defects
0XE5	VT-structured STS-1 SPE with 5VTx payload defects
0XE6	VT-structured STS-1 SPE with 6VTx payload defects
0XE7	VT-structured STS-1 SPE with 7VTx payload defects
0XE8	VT-structured STS-1 SPE with 8VTx payload defects
0XE9	VT-structured STS-1 SPE with 9VTx payload defects
0XEA	VT-structured STS-1 SPE with 10VTx payload defects
0XEB	VT-structured STS-1 SPE with 11VTx payload defects
0XEC	VT-structured STS-1 SPE with 12VTx payload defects
0XED	VT-structured STS-1 SPE with 13VTx payload defects
0XEE	VT-structured STS-1 SPE with 14VTx payload defects
0XEF	VT-structured STS-1 SPE with 15VTx payload defects
0XF0	VT-structured STS-1 SPE with 16VTx payload defects
0XF1	VT-structured STS-1 SPE with 17VTx payload defects
0XF2	VT-structured STS-1 SPE with 18VTx payload defects
0XF3	VT-structured STS-1 SPE with 19VTx payload defects
0XF4	VT-structured STS-1 SPE with 20VTx payload defects
0XF5	VT-structured STS-1 SPE with 21VTx payload defects
0XF6	VT-structured STS-1 SPE with 22VTx payload defects
0XF7	VT-structured STS-1 SPE with 23VTx payload defects
0XF8	VT-structured STS-1 SPE with 24VTx payload defects
0XF9	VT-structured STS-1 SPE with 25VTx payload defects
0XFA	VT-structured STS-1 SPE with 26VTx payload defects
0XFB	VT-structured STS-1 SPE with 27VTx payload defects
0XFC	VT-structured STS-1 SPE with 28VTx payload defects
0XFE	O.181 Test Signal (TSS1 to TSS3) Mapping
0XFF	Reserved, however, C2 is 0XFF if AIS-L is being generated by an optical card or cross-connect downstream

4.5.19 CCT

Defines the type of cross-connect to be created

Table 4-59 CCT Values

Values	Description
1WAY	A unidirectional connection from a source tributary to a destination tributary
1WAYDC	path protection mcast drop with (1-way) continue
1WAYEN	path protection mcast end node (1-way continue)
1WAYMON	A bidirectional connection between the two tributaries **Note** Starting with ONS 15454 R3.0 and ONS 15327 R3.3, 1WAYMON is not supported with TL1. However, it is still supported from CTC. Using CTC you can create 1WAYMON cross-connects and can be retrieved via TL1.
1WAYPCA	A unidirectional connection from a source tributary to a destination tributary on the protection path/fiber
2WAY	A bidirectional connection between the two tributaries
2WAYDC	A Bidirectional Drop and Continue connection applicable only to path protection Traditional and Integrated Dual Ring InterConnections
2WAYPCA	A bidirectional connection between the two tributaries on the extra protection path/fiber

4.5.20 CIRCUIT_SIZE

The DWDM circuit size used on a wavelength.

Table 4-60 CIRCUIT_SIZE Values

Values	Description
10G_FEC	The circuit size is 10 Gbit/sec with FEC
10G_NO_FEC	The circuit size is 10 Gbit/sec without FEC
2G5_FEC	The circuit size is 2.5 Gbit/sec with FEC
2G5_NO_FEC	The circuit size is 2.5 Gbit/sec without FEC
MULTI_RATE	The circuit size support multi rate
NOT_SPEC	The circuit size is Equipment not specific

4.5.21 CMD_MODE

Command mode is used to force the system to execute a given command regardless of any standing conditions. Normal mode is the default behavior for all commands but the user may specify FRCD to force the system to override a state in which the command would normally be denied.

Table 4-61 CMD_MODE Values

Values	Description
FRCD	Force the system to override a state in which the command would normally be denied
NORM	Execute the command normally. Do not override any conditions that may make the command fail.

4.5.22 COMM_TYPE

The out of band communications channel termination type

Table 4-62 COMM_TYPE Values

Values	Description
DCC	Section DCC type
GCC	Generic Communication Channel (OTN) Type
NONE	Disable DCC or GCC if enabled

4.5.23 COND_EFF

The affected unit's condition

Table 4-63 COND_EFF Values

Values	Description
CL	Standing condition cleared
SC	Standing condition raised
TC	Transient condition

4.5.24 CONT_MODE

Current state of environmental control

Table 4-64 CONT_MODE Values

Values	Description
NA	Indicates Not applicable (i.e., duration is MNTRY)
OPR	Indicates that the environment control state is CLOSE
RLS	Indicates that the environment control state is OPEN

4.5.25 CONTTYPE

The Environmental control types as defined by Telcordia GR-833-CORE, Issue 2, November 1996, Appendix G.

Table 4-65 CONTTYPE Values

Values	Description
AIRCOND	Air conditioning
ENGINE	Engine
FAN	Fan
GEN	Generator
HEAT	Heat
LIGHT	Light
MISC	Miscellaneous
SPKLR	Sprinkler

4.5.26 CREATION_TYPE

The Optical Link creation type.

Table 4-66 CREATION_TYPE Values

Values	Description
AUTO	Automatically created by NE
PROV	Provisioned by user

4.5.27 CRS_TYPE

Indicates the cross-connection type

Table 4-67 CRS_TYPE Values

Values	Description
STS	Indicates all the STS cross-connections
STS1	STS1 Cross Connect
STS3C	STS3C Cross Connect
STS6C	STS6C Cross Connect
STS9C	STS9C Cross Connect
STS12C	STS12C Cross Connect
STS24C	STS24C Cross Connect
STS48C	STS48C Cross Connect
STS192C	STS192C Cross Connect

Table 4-67 CRS_TYPE Values (continued)

Values	Description
VT	Indicates all the VT1 cross-connections
VT1	VT1 Cross Connect
VT2	VT2 Cross Connect

4.5.28 DATARATE

Data Rate

Table 4-68 DATARATE Values

Values	Description
FC	Fiber Channel
GIG_E	Gigabit Ethernet
PASS_THRU	Pass thru

4.5.29 DIRECTION

Transmit and receive directions

Table 4-69 DIRECTION Values

DIRECTION Values	Description
BTH	Both transmit and receive directions
RCV	Receive direction only
TRMT	Transmit direction only

4.5.30 DIRN

Specifies the discriminating level for the requested monitored parameter

Table 4-70 DIRN Values

Values	Description
DN	Monitored parameter with values equal to or greater than the level of LEV will be reported
UP	Monitored parameter with values equal to or less than the value of LEV will be reported

4.5.31 DL_TYPE

Indicates software download type

Table 4-71 DL_TYPE Values

Values	Description
ACT	Indicates to activate to a newer software load during the software download
RVRT	Indicates to revert to an older software load during software download

4.5.32 DS_LINE_CODE

DS123 Line Code

Table 4-72 DS_LINE_CODE Values

Values	Description
B3ZS	Bipolar with Three-Zero Substitution

4.5.33 DS_LINE_TYPE

DS123 Line type

Table 4-73 DS_LINE_TYPE Values

Values	Description
AUTO-PROV	Auto Provisioned
C-BIT	C-BIT line type applies to DS3XM and DS3E card
M13	M23 line type applies to DS3XM and DS3E card
UNFRAMED	Line Type is unframed. The old DS3 (L3M) and DS3CR cards can only run in unframed mode.

4.5.34 DURATION

Duration

Table 4-74 DURATION Values

DURATION Values	Description
CONTS	Continuous duration

4.5.35 DWDM_RING_TYPE

Network Type where the NE is installed

Table 4-75 DWDM_RING_TYPE Values

Values	Description
METRO-ACCESS	The network where the DWDM node is installed is a metro access network
METRO-CORE	The network where the DWDM node is installed is a metro core network
NONE	A node that does not have a standard DWDM configuration

4.5.36 E_LBO

Electrical signal line buildout

Table 4-76 E_LBO Values

Values	Description
0-225	Electrical signal buildout range is 1-225
226-450	Electrical signal buildout range is 226-450

4.5.37 ENV_ALM

Environmental alarm types as defined by Telcordia GR-833-CORE, Issue 2, November 1996, Appendix F.

Table 4-77 ENV_ALM Values

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 failure
CPMINOR	Centralized power minor failure
ENGINE	Engine failure
ENGOPRG	Engine operating
EXPLGS	Explosive gas
FIRDETR	Fire detector failure
FIRE	Fire
FLOOD	Flood
FUSE	Fuse failure

Table 4-77 ENV_ALM Values (continued)

Values	Description
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
PWR-48	48 Volt power supply failure
RECT	Rectifier failure
RECTHI	Rectifier high voltage
RECTLO	Rectifier low voltage
SMOKE	Smoke
TOXICGAS	Toxic gas
VENTN	Ventilation system failure

4.5.38 EQPT_TYPE

Identifies the type of equipment being provisioned into a slot

Table 4-78 EQPT_TYPE Values

Values	Description
AD-1B	Optical Add/Drop Multiplexed (OADM) 1 Band Filter
AD-1C	Optical Add/Drop Multiplexed (OADM) 1 Channel Filter
AD-2C	Optical Add/Drop Multiplexed (OADM) 2 Channels Filter
AD-4B	Optical Add/Drop Multiplexed (OADM) 4 Bands Filter
AD-4C	Optical Add/Drop Multiplexed (OADM) 4 Channels Filter

Table 4-78 EQPT_TYPE Values (continued)

Values	Description
AIC	The Alarm Interface Controller Card is an optional card which expands system management capabilities for the customer defined alarm I/O and orderwire functionality
AICI	The AICI card
AIP	The Alarm Indicator Panel
ALM-PWR	Alarm Power
BP	The Backplane of the NE
CRFT-TMG	Craft Timing
DCC	The Data Communications Channel
DMX-32	Optical De/Multiplexed (DMX) 32 Channels
DS1-14	A 14 port interface card supporting DS1 facilities
DS1N-14	A 14 port interface card supporting DS1 facilities
DS3-12	A 12 port interface card supporting DS3 facilities
DS3-3	A 3 port interface card supporting DS3 facilities
DS3ATM-12	A 12 port interface card supporting DS3 ATM facilities
DS3CR-12	Cost reduced DS3
DS3E-12	A 12 port interface card supporting DS3E facilities
DS3I	DS3I Card (I= International)
DS3IN	DS3IN Card
DS3NE-12	A 12 port interface card supporting DS3E facilities
DS3N-12	A 12 port interface card supporting DS3 facilities
DS3XM-6	An interface card that converts six framed DS-3 network connections to 28x6 or 168 VT1.5s
E1000T-2	A 2 port interface card supporting 1000 Base T Ethernet facilities
E100T-12	A 12 port interface card supporting 100 Base T Ethernet facilities
E100T-4	A four port interface card supporting 100 Base T Ethernet facilities.
EC1-12	A 12 port interface card supporting EC1 facilities
EC1N-12	A 12 port interface card supporting EC1 facilities
FTA	The Fan Tray of the NE
FTA1	The Fan Tray 1 of the NE
FTA2	The Fan Tray 2 of the NE
G1000-4	A four port G1000 card
MD-4	Optical Multiplexer/Demultiplexer with 4 Channels
MIC-28-3-A	ONS 15327 MIC card A
MIC-28-3-B	ONS 15327 MIC card B
MIC-EXT	ONS 15327 MIC card
MIC-GEN	ONS 15327 MIC card

Table 4-78 EQPT_TYPE Values (continued)

Values	Description
MUX-32	Optical Multiplexed (MUX) 32 Channels
MXP-2.5G-10G	10G (4 * 2.5G) Muxponder Card
OC12	An interface card that supports one or more OC-12 (622Mbs) optical facilities
OC12-327	ONS 15327 OC12 card
OC12-4	A four port OC12 card
OC12-IR-1	An interface card that supports one intermediate range OC-12 (622Mbs) optical facilities
OC12-LR-1	An interface card that supports one long range OC-12 (622Mbs) optical facilities
OC12-SR-1	An interface card that supports one short range OC-12 (622Mbs) optical facilities
OC192-LR-1	An interface card that supports one or more OC-192 optical facilities
OC3	An interface card that supports multiple OC-3 (155Mbs) optical facilities
OC3-327	ONS 15327 OC3 card
OC3-IR-4	An interface card that supports four intermediate range OC-3 (155Mbs) optical facilities
OC3-SR-4	An interface card that supports four short range OC-3 (155Mbs) optical facilities
OC3ATM-IR-6	An interface card that supports six intermediate range OC-3 (155Mbs) ATM optical fibers
OC3IR-STM1SH-1310-8	An OC3 card which has 8 ports over the lower speed slot of the ONS 15454 with XC10G/192
OC3POS-SR-4	An interface card that supports four short range OC-3 (155Mbs) POS optical facilities
OC48	An interface card that supports one or more OC-48 (10Gbs) optical facilities
OC48-327	ONS 15327 OC48 card
OC48-AS-1	An interface card that supports one short range OC-48 (10Gbs) optical facilities that can be provisioned in any I/O slot
OC48-ELR-1	An interface card that supports one short range OC-48 (2.5Gbs) optical facility
OC48-IR-1	An interface card that supports one intermediate range OC-48 (10Gbs) optical facility
OC48-LR-1	An interface card that supports one long range OC-48 (10Gbs) optical facility
OC48-SR-1	An interface card that supports one short range OC-48 (10Gbs) optical facilities
OPT-BST	Optical Booster Amplifier
OPT-PRE	Optical Pre-Amplifier
OSC-CSM	Optical Service Channel (OSC) with Combiner/Separator Module (SCM)

Table 4-78 EQPT_TYPE Values (continued)

Values	Description
OSCM	Optical Service Channel (OSC) Module
TCC	The Timing Communication and Control card
TXP-MR-10G	10G Multirate Transponder Card
TXP-MR-2.5G	Multi-Rate 2.5G Unprotected
TXPP-MR-2.5G	Multi-Rate 2.5G Protected
XC	A Cross-connect card
XC-VT	A Cross-Connect card
XC10G	A Cross-Connect card
XTC	ONS 15327 XTC card
XTC-DS1-14	ONS 15327 XTC DS1-14 card
XTC-DS1-28	ONS 15327 XTC DS1-28 card
XTC-DS1-56	ONS 15327 XTC DS1-56 card
XTC-DS3-3	ONS 15327 XTC DS3-3 card

4.5.39 EQUIP

Indicates the presence of a plug-in unit

Table 4-79 EQUIP Values

Values	Description
EQUIP	The unit is Equipped—present
UNEQUIP	The unit is Unequipped—absent

4.5.40 EQUIPMENT_TYPE

Equipment type

Table 4-80 EQUIPMENT_TYPE Values

Values	Description
AD-1B	Optical Add/Drop Multiplexed (OADM) 1 Band Filter
AD-1C	Optical Add/Drop Multiplexed (OADM) 1 Channel Filter
AD-2C	Optical Add/Drop Multiplexed (OADM) 2 Channels Filter
AD-4B	Optical Add/Drop Multiplexed (OADM) 4 Bands Filter
AD-4C	Optical Add/Drop Multiplexed (OADM) 4 Channels Filter
AIC	AIC card
AICI	AICI card
DMX-32	Optical De/Multiplexed (DMX) 32 Channels

Table 4-80 EQUIPMENT_TYPE Values (continued)

Values	Description
DS1	DS1 card
DS1N	DS1N card
DS3	DS3 card
DS3E	DS3E card
DS3I	DS3I Card
DS3IN	DS3IN Card
DS3N	DS3N card
DS3NE	DS3NE card
DS3XM	DS3XM card
E1000T	E1000T card
E100T	E100T card
EC1	EC1 card
FC-MR-4	FC-MR-4 card
G1000-2	A two port G1000 card (ONS 15327)
G1000-4	A four port G1000 card (ONS 15454)
MD-4	Optical Multiplexer/Demultiplexer with 4 Channels
MIC	ONS 15327 MIC card
MIC-EXT	ONS 15327 XC-EXT card
ML1000-1	1-Port GigE card
ML1000-2	2-Port GigE card
ML100T-12	12-Port FSTE card
ML100T-8	8-Port FSTE card
MUX-32	Optical Multiplexed (MUX) 32 Channels
MXP-2.5G-10G	10G (4 * 2.5G) Muxponder Card
OC3	OC3 card
OC3-8	8 Port OC3 card
OC12	OC12 card
OC12-4	A four port OC12 card
OC48	OC48 card
OC192	OC192 card
OPT-BST	Optical Booster Amplifier
OPT-PRE	Optical Pre-Amplifier
OSC-CSM	Optical Service Channel (OSC) with Combiner/Separator Module (SCM)
OSCM	Optical Service Channel (OSC) Module
TCC	TCC card

Table 4-80 EQUIPMENT_TYPE Values (continued)

Values	Description
TXP-MR-10G	10G Multirate Transponder Card
TXP-MR-2.5G	Multi-Rate 2.5G Unprotected
TXPP-MR-2.5G	Multi-Rate 2.5G Protected
XC	XC card
XC10G	XC10G card
XCVT	XCVT card
XTC	ONS 15327 XTC card

4.5.41 ETHER_DUPLEX

Duplex mode

Table 4-81 ETHER_DUPLEX Values

Values	Description
AUTO	Auto mode
FULL	Full mode
HALF	Half mode

4.5.42 ETHER_SPEED

Ethernet speed

Table 4-82 ETHER_SPEED Values

Values	Description
100_MBPS	100 Mbps
10_GBPS	10 Gbps
10_MBPS	10 Mbps
1_GBPS	1 Gbps
AUTO	Auto

4.5.43 EXT_RING

Indicates if the ring supports the extended K1/K2/K3 protocol

Table 4-83 EXT_RING Values

Values	Description
N	Indicates the Ring does not support the extended K1/K2/K3 protocol
Y	Indicates the Ring does support the extended K1/K2/K3 protocol

4.5.44 FC_LINKRATE

The link rate on a fiber channel port

Table 4-84 FC_LINKRATE Values

Values	Description
1GFC	The rate is 1 Gig
2GFC	The rate is 2 Gig
UNKNOWN	The rate is unknown
UNPLUGGED	The SFP is not plugged into the Fiber channel port so the link rate can not be detected

4.5.45 FLOW

Indicates the type of flow control that has been negotiated for an Ethernet port

Table 4-85 FLOW Values

Values	Description
ASYMMETRIC	Asymmetric flow control
ASYMMETRIC_LOCAL	Asymmetric local flow control
NONE	No flow control
SYMMETRIC	Symmetric flow control

4.5.46 FRAME_FORMAT

The frame format for a T1 port

Table 4-86 FRAME_FORMAT Values

Values	Description
D4	Frame format is D4
ESF	Frame format is ESF
UNFRAMED	Frame format is unframed

4.5.47 GCCRATE

The data rate of the GCC traffic

Table 4-87 GCCRATE Values

Values	Description
192K	192 Kbps
576K	576 Kbps

4.5.48 HEATER_STATUS

Heater status list.

Table 4-88 HEATER_STATUS Values

Values	Description
OFF	The heater is off
ON	The heater is on

4.5.49 IMPEDANCE

The Termination Impedance of the BITS-IN port

Table 4-89 IMPEDANCE Values

Values	Description
120-OHM	Impedance of 120 Ohm
75-OHM	Impedance of 75 Ohm

4.5.50 INH_MODE

Indicates whether the function is inhibited

Table 4-90 INH_MODE Values

Values	Description
ALW	Function is allowed
INH	Function is inhibited

4.5.51 LASER_STATUS

Defines the laser status

Table 4-91 LASER_STATUS Values

Values	Description
APR	The Laser is switched on but is working Automatic Power Reduction
OFF	The Laser is switched off
ON	The Laser is switched on

4.5.52 LCAS

LCAS (link capacity adjustment scheme) mode for the VCG (virtual concatenated group) created.

Table 4-92 LCAS Values

Values	Description
LCAS	LCAS is enabled
NONE	No LCAS
SW-LCAS	SW-LCAS supports temporary removal of a VCG member during the member failure. Only supported by the ML-series cards.

4.5.53 LINE_BUILDOUT

Line buildout

Table 4-93 LINE_BUILDOUT Values

Values	Description
0-131	Line buildout range is 0-131
132-262	Line buildout range is 132-262
263-393	Line buildout range is 263-393
394-524	Line buildout range is 394-524
525-655	Line buildout range is 525-655

4.5.54 LINE_CODE

Line code

Table 4-94 LINE_CODE Values

Values	Description
AMI	Line code value is AMI
B8ZS	Line code value is B8ZS (Bipolar with Three-Zero Substitution)

4.5.55 LOCATION

Identifies the location where the action is to take place

Table 4-95 LOCATION Values

Values	Description
FEND	Action occurs on the Far End of the facility
NEND	Action occurs on the Near End of the facility

4.5.56 LPBK_TYPE

Indicates the type of loopback that is to be operated or released

Table 4-96 LPBK_TYPE Values

Values	Description
CRS	A path level loopback which is established at the cross-connect matrix level (the XC card). An STS level cross-connect loopback causes an AIS-P to be sent on the outgoing direction of transmission
FACILITY	A type of loopback that connects the incoming received signal immediately following the optical-to-electrical conversion (after descrambling) to the associated transmitter in the return direction
LINE	Line level loopback
TERMINAL	A loopback that connects the signal that is about to be transmitted (after scrambling but before the electrical-to-optical conversion) is connected to the associated, incoming receiver

4.5.57 MFS_TYPE

Indicates the maximum frame size used by an Ethernet card

Table 4-97 MFS_TYPE Values

Values	Description
1548	Normal frame size
JUMBO	Jumbo frame size

4.5.58 MOD2

Line/Path Modifier

Table 4-98 MOD2 Values

Values	Description
CLNT	Client facility for MXP/TXP cards
DS1	DS1 line of a DS3XM card
DS3I	DS3I Line
EC1	EC1 facility
FC	Fiber Channel facility
G1000	G1000 Facility
OC3	OC3 facility
OC12	OC12 facility
OC48	OC48 facility
OC192	OC192 facility
OCH	Optical channel
OMS	Optical Multiplex Section
OTS	Optical Transport Section
STS1	STS1 path
STS3C	STS3C path
STS6C	STS6C path
STS9C	STS9C path
STS12C	STS12C path
STS48C	STS48C path
STS192C	STS192C path
T1	T1/DS1 facility/line
T3	T3/DS3 facility/line
VT1	VT1 path
VT2	VT2 path

Note RTRV-PM-<MOD2> command is not supported on the G1000 card.

4.5.59 MOD2_IO

Facility/Line Modifier

Table 4-99 MOD2_IO Values

Values	Description
CLNT	Client facility for MXP/TXP cards
DS1	DS1 line of a DS3XM card

Table 4-99 MOD2_IO Values (continued)

Values	Description
DS3I	DS3I
EC1	EC1 facility
FC	Fiber Channel facility
G1000	G1000 facility
OC3	OC3 facility
OC12	OC12 facility
OC48	OC48 facility
OC192	OC192 facility
OCH	Optical channel facility for MXP/TXP cards
OMS	Optical multiplexing section
OTS	Optical Transport Section
T1	T1/DS1 facility
T3	T3/DS3 facility

4.5.60 MOD2ALM

Alarm type for certain generic TL1 commands

Table 4-100 MOD2ALM Values

Values	Description
CLNT	Client facility for MXP/TXP cards
DS1	DS1 alarm
DS3I	DS3I alarm
E100	E100 alarm
E1000	E1000 alarm
EC1	EC1 alarm
FC	Fiber Channel facility alarm
FSTE	Fast Ethernet Port alarm
G1000	G1000 alarm
GIGE	GIG Ethernet Port alarm
OC3	OC3 alarm
OC12	OC12 alarm
OC48	OC48 alarm
OC192	OC192 alarm
OCH	Optical channel
OMS	Optical Multiplex Section

Table 4-100 MOD2ALM Values (continued)

Values	Description
OTS	Optical Transport Section
POS	POS port alarm
STS1	STS alarm
STS3C	STS alarm
STS6C	STS alarm
STS9C	STS alarm
STS12C	STS alarm
STS48C	STS alarm
STS192C	STS alarm
T1	T1 alarm
T3	T3 alarm
UDCDCC	UDCDCC alarm
UDCF	UCDF alarm
VT1	VT1 alarm
VT2	VT2 alarm
WLEN	Wavelength Path Provisioning

4.5.61 MOD2B

Alarm type for certain generic TL1 commands

Table 4-101 MOD2B Values

Values	Description
BITS	BITS alarm
CLNT	Client facility for MXP/TXP cards
COM	Common alarm
DS1	DS1 alarm
DS3I	DS3I alarm
E100	E100 alarm
E1000	E1000 alarm
EC1	EC1 alarm
ENV	ENV alarm
EQPT	EQPT alarm
FC	Fiber Channel alarm
FSTE	FSTE alarm
G1000	G1000 alarm

Table 4-101 MOD2B Values (continued)

Values	Description
GIGE	GIGE alarm
MIC	MIC alarm (ONS 15327)
MIC-EXT	MIC-EXT Alarm (ONS 15327)
OC3	OC3 alarm
OC12	OC12 alarm
OC48	OC48 alarm
OC192	OC192 alarm
OCH	Optical channel
OMS	Optical Multiplex Section
OTS	Optical Transport Section
POS	POS alarm
STS1	STS alarm
STS3C	STS alarm
STS6C	STS alarm
STS9C	STS alarm
STS12C	STS alarm
STS24C	STS alarm
STS48C	STS alarm
STS192C	STS Alarm
SYNCN	SYNCN alarm
T1	T1 alarm
T3	T3 alarm
TCC	TCC alarm
UCP	UCP Alarm
VT1	VT1 alarm
VT2	VT2 alarm
XTC	ONS 15327 XTC Alarm

4.5.62 MOD2O

Facility types for MXP_2.5G_10G, TXP_MR_10G, OSCM, OSC-CSM, OPT-PRE, OPT-BST, MD-4, MUX-32, DMX-32, AD-1C, AD-2C, AD-4C, AD-1B, and AD-4B cards

Table 4-102 MOD2O Values

Values	Description
OCH	Optical Channel

Table 4-102 MOD2O Values (continued)

Values	Description
OMS	Optical Multiplexer Section
OTS	Optical Trace Section

4.5.63 MOD_PATH

STS/VT Path Modifier

Table 4-103 MOD_PATH Values

Values	Description
STS1	STS1 path
STS3C	STS3C path
STS6C	STS6C path
STS9C	STS9C path
STS12C	STS12C path
STS24C	STS 24C path
STS48C	STS48C path
STS192	STS192C path
VT1	VT1 path
VT2	VT2 path

4.5.64 MOD_RING

Ring protection type

Table 4-104 MOD_RING Values

Values	Description
BLSR	Ring protection type

4.5.65 MOD_TACC

Test Access Modifier

Table 4-105 MOD_TACC Values

Values	Description
DS1	DS1 line of a DS3XM card
DS3I	DS3I card
STS1	STS1 path

Table 4-105 MOD_TACC Values (continued)

Values	Description
STS3C	STS3C path
STS6C	STS6C path
STS9C	STS9C path
STS12C	STS12C path
STS24C	STS24C path
STS48C	STS48C path
STS192C	STS192C path
T1	T1/DS1 facility/line
T3	T3/DS3 facility/line
VT1	VT1 path
VT2	VT2 path

4.5.66 MODULE_OP

Module operation mode

Table 4-106 MOD_OP Values

Values	Description
CLR	Clear switch operation mode
LOCKDX	Lock duplex switch operation mode
LOCKPRT	Lock switch to protection operation mode
LOCKWKG	Lock switch to working operation mode
RST	Reset operation mode
SWITCHDX	Switch duplex operation mode
SWITCHPRT	Switch to protection operation mode
SWITCHWKG	Switch to working operation mode
UNLOCKDX	Unlock duplex switch operation mode
UNLOCKPRT	Unlock switch to protection operation mode
UNLOCKWKG	Unlock switch to working operation mode
UPGRADE	Upgrade operation mode

4.5.67 MSGTYPE

Type of trace message

Table 4-107 MSGTYPE Values

MSGTYPE Values	Description
EXPTRC	Expected incoming Path trace message
INCTRC	Incoming Path trace message
TRC	Outgoing Path trace message

4.5.68 MUX_TYPE

BLSR Extension Byte

Table 4-108 MUX_TYPE Values

Values	Description
E2	E2 Byte (orderwire)
F1	F1 Byte (user)
K3	K3 Byte
Z2	Z2 Byte

4.5.69 NOTIF_CODE

The 2-character Notification Code associated with an autonomous message

Table 4-109 NOTIF_CODE Values

Values	Description
CL	The condition causing the alarm has Cleared
CR	A Critical alarm
MJ	A Major alarm
MN	A Minor alarm
NA	The condition is Not Alarmed
NR	The alarm is Not Reported

4.5.70 OCN_BLSR

Modifier used to differentiate the various levels of OC-N in BLSR

Table 4-110 OCN_BLSR Values

Values	Description
OC12	Optical Carrier level-12 (662Mbs)
OC48	Optical Carrier level-48 (2.4Gbs)
OC192	Optical Carrier level-192 (10Gbs)

4.5.71 OCN_MONTYPE

OCN monitor type

Table 4-111 OCN_MONTYPE Values

Values	Description
CVL	Coding Violation—Line
ESL	Errored Second—Line
PJNEG	PPJC-PDET:Negative Pointer Justification
PJPOS	PPJC-PFEN:Negative Pointer Justification
PSC	Protection Switching Count
PSD	Protection Switching Duration
SEFS	Severely Errored Framing Seconds
UASL	Unavailable Second -Line

4.5.72 OCN_TYPE

Modifier used to differentiate the various levels of OC-N in the ENT/ED/DLT/RTRV commands

Table 4-112 OCN_TYPE Values

Values	Description
OC3	Optical Carrier level-3 (155Mbs)
OC12	Optical Carrier level-12 (622Mbs)
OC48	Optical Carrier level-48 (2.4Gbs)
OC192	Optical Carrier level-192 (10Gbs)

4.5.73 ON_OFF

Disable or Enable an attribute

Table 4-113 ON_OFF Values

Values	Description
N	Disable the attribute
Y	Enable the attribute

4.5.74 OPTICAL_BAND

Defines the Optical Band

Table 4-114 OPTICAL_BAND Values

Values	Description
1530.33-1532.68	Band 1
1534.25-1536.61	Band 2
1538.19-1540.56	Band 3
1542.14-1544.53	Band 4
1546.12-1548.51	Band 5
1550.12-1552.52	Band 6
1554.13-1556.55	Band 7
1558.17-1560.61	Band 8
USE-DEFAULT	The band is not yet configured/retrieved from unit

4.5.75 OPTICAL_LINK_TYPE

The type of the Optical Link between two optical facilities

Table 4-115 OPTICAL_LINK_TYPE Values

Values	Description
ADD-DROP	Link between two points that result in an add/drop connection from a Drop point to an Add point
HITLESS	Link between two OMS points that result in a hitless connection from a Drop point to an Add point of a consecutive Band/Channel Filter
OTS	Link between two OTS points

4.5.76 OPTICAL_MODE

The facility optical mode

Table 4-116 OPTICAL_MODE Values

Values	Description
SDH	The SDH optical mode the European format
SONET	The SONET optical mode the American format

4.5.77 OPTICAL_PORT_TYPE

Qualifies the optical port of a card

Table 4-117 OPTICAL_PORT_TYPE Values

Values	Description
ADD	The signal is added to the port
DROP	The signal is dropped from the port
IN-COM	COM channels (without OSC) that continues the signal from the previous card
IN-DC	Input DCU port
IN-EXP	Express channel that continues the signal from the previous card
IN-LINE	All the channels that continues the signal from the previous card
IN-OSC	OSC channel that continues the signal from the previous card
OUT-COM	COM channels (without OSC) that continues the signal to the next card
OUT-DC	Output DCU Port
OUT-EXP	Express channel that continues the signal to the next card
OUT-LINE	All the channels that continues the signal to the next card
OUT-OSC	OSC channel that continues the signal to the next card

4.5.78 OPTICAL_WLEN

The Optical Wavelength

Table 4-118 OPTICAL_WLEN Values

Values	Description
1530.33	Wavelength 1
1531.12	Wavelength 2
1531.90	Wavelength 3
1532.68	Wavelength 4
1534.25	Wavelength 5
1535.04	Wavelength 6
1535.82	Wavelength 7
1536.61	Wavelength 8
1538.19	Wavelength 9
1538.98	Wavelength 10
1539.77	Wavelength 11
1540.56	Wavelength 12
1542.14	Wavelength 13
1542.94	Wavelength 14
1543.73	Wavelength 15
1544.53	Wavelength 16

Table 4-118 OPTICAL_WLEN Values (continued)

Values	Description
1546.12	Wavelength 17
1546.92	Wavelength 18
1547.72	Wavelength 19
1548.51	Wavelength 20
1550.12	Wavelength 21
1550.92	Wavelength 22
1551.72	Wavelength 23
1552.52	Wavelength 24
1554.13	Wavelength 25
1554.94	Wavelength 26
1555.75	Wavelength 27
1556.55	Wavelength 28
1558.17	Wavelength 29
1558.98	Wavelength 30
1559.79	Wavelength 31
1560.61	Wavelength 32
USE-TWL1	Use Tunable Wavelength 1

4.5.79 OPTICS

The type of Gigabyte Ethernet optics being used

Table 4-119 OPTICS Values

Values	Description
1000_BASE_CX	1000 Base CX
1000_BASE_LX	1000 Base LX
1000_BASE_SX	1000 Base SX
1000_BASE_ZX	1000 Base ZX
CWDM_1470	CWDM 1470
CWDM_1490	CWDM 1490
CWDM_1510	CWDM 1510
CWDM_1530	CWDM 1530
CWDM_1550	CWDM 1550
CWDM_1570	CWDM 1570
CWDM_1590	CWDM 1590
CWDM_1610	CWDM 1610

Table 4-119 OPTICS Values (continued)

Values	Description
ITU_100G_1530_33	ITU-100G 1530.33
ITU_100G_1531_12	ITU-100G 1531.12
ITU_100G_1531_90	ITU-100G 1531.90
ITU_100G_1532_68	ITU-100G 1532.68
ITU_100G_1534_25	ITU-100G 1534.25
ITU_100G_1535_04	ITU-100G 1535.04
ITU_100G_1535_82	ITU-100G 1535.82
ITU_100G_1536_61	ITU-100G 1536.61
ITU_100G_1538_19	ITU-100G 1538.19
ITU_100G_1538_98	ITU-100G 1538.98
ITU_100G_1539_77	ITU-100G 1539.77
ITU_100G_1540_56	ITU-100G 1540.56
ITU_100G_1542_14	ITU-100G 1542.14
ITU_100G_1542_94	ITU-100G 1542.94
ITU_100G_1543_73	ITU-100G 1543.73
ITU_100G_1544_53	ITU-100G 1544.53
ITU_100G_1546_12	ITU-100G 1546.12
ITU_100G_1546_92	ITU-100G 1546.92
ITU_100G_1547_72	ITU-100G 1547.72
ITU_100G_1548_51	ITU-100G 1548.51
ITU_100G_1550_12	ITU-100G 1550.12
ITU_100G_1550_92	ITU-100G 1550.92
ITU_100G_1551_72	ITU-100G 1551.72
ITU_100G_1552_52	ITU-100G 1552.52
ITU_100G_1554_13	ITU-100G 1554.13
ITU_100G_1554_94	ITU-100G 1554.94
ITU_100G_1555_75	ITU-100G 1555.75
ITU_100G_1556_55	ITU-100G 156.55
ITU_100G_1558_17	ITU-100G 1558.17
ITU_100G_1558_98	ITU-100G 1558.98
ITU_100G_1559_79	ITU-100G 1559.79
ITU_100G_1560_61	ITU-100G 1560.61
UNKNOWN	Unknown Optical Type
UNPLUGGED	Unplugged

4.5.80 PATH

Modifier for Path commands

Table 4-120 PATH Values

Values	Description
STS1	Synchronous Transport Signal level-1 (51 Mbs)
STS3C	Synchronous Transport Signal level-3 Concatenated (155 Mbs)
STS6C	Synchronous Transport Signal level-6 Concatenated (310 Mbs)
STS9C	Synchronous Transport Signal level-9 Concatenated (465 Mbs)
STS12C	Synchronous Transport Signal level-12 Concatenated (622 Mbs)
STS24C	Synchronous Transport Signal level-24 Concatenated (1240 Mbs)
STS48C	Synchronous Transport Signal level-48 Concatenated (2488 Mbs)
STS192C	Synchronous Transport Signal level-192 (9952 Mbs)
VT1	Virtual Tributary 1
VT2	Virtual Tributary 2

4.5.81 PAYLOAD

Identifies payload type

Table 4-121 PAYLOAD Values

Values	Description
10GE	10 GigE Payload Mode
1GE	1 Gigabit ethernet mode
1GFC	2 Gigabit Ethernet mode
2GFC	2 Gigabit Fiber Channel mode
DV6000	Video mode
ESCON	ESCON mode
HDTV	HDTV mode
OC12	SONET OC12 mode
OC3	SONET OC3 mode
OC48	SONET OC48 mode
PASS-THROUGH	Pass through mode
SDI-D1-VIDEO	SDI-D1-Video mode
SONET	SONET Payload Mode

4.5.82 PM_MODE

Identifies the type of PM parameters. Only P type is supported.

Table 4-122 PM_MODE Values

Values	Description
I	Transport Intermediate Node PM parameters
L	Transport Line PM parameters
NONE	No PM parameters are being stored for the entity
P	Transport Path PM parameters
S	Transport Section PM parameters
SEG	Transport Path Segment PM parameters (e.g., ISDN BRA)

4.5.83 PM_STATE

Directs the named PM mode type—path (P) state

Table 4-123 PM_STATE Values

Values	Description
OFF	Disable the mode
ON	Enable the mode

4.5.84 PRIVILEGE

Security level

Table 4-124 PRIVILEGE Values

Values	Description
MAINT	Maintenance security level
PROV	Provisioning security level
RTRV	Retrieve security level
SUPER	Superuser security level

4.5.85 PRODUCT_TYPE

Product (NE) type

Table 4-125 PRODUCT_TYPE Values

Values	Description
15327	Cisco ONS 15327 NE
15454	Cisco ONS 15454 NE
UNKNOWN	Unknown product type

4.5.86 PROTECTION_GROUP

Protection group type

Table 4-126 PROTECTION_GROUP Values

Values	Description
1-1	1 to 1 protection group
1-N	1 to N protection group

4.5.87 PROTTYPE

Protection type for DWDM Client facilities

Table 4-127 PROTTYPE Values

Values	Description
Y-CABLE	Y Cable Protection for the Client Ports on MXP/TXP cards

4.5.88 PST

Primary State. This parameter indicates the current overall service condition of an entity.

Table 4-128 PST Values

Values	Description
IS	In-service
OOS	Out-of-Service

4.5.89 RDIRN_MODE

This type specifies the Optical Ring directionality

Table 4-129 RDIRN_MODE Values

Values	Description
E-W	The direction of the signal is from east to west (or clockwise)
W-E	The direction of the signal is from west to east (or counterclockwise)

4.5.90 REVERTIVE_TIME

Revertive time

Table 4-130 REVERTIVE_TIME Values

Values	Description
0.5 – 12.0	Revertive time is 0.5 to 12.0 minutes

4.5.91 RMODE

Roll mode

Table 4-131 RMODE Values

Values	Description
AUTO	Automatic
MAN	Manual

4.5.92 RPATH

Indicates STS or VT path

Table 4-132 RPATH Values

Values	Description
STS	STS paths
VT	VT paths

4.5.93 SABITS

Indicates the SA BITS

Table 4-133 SABITS Values

Values	Description
BYTE-4	SABIT is BYTE-4
BYTE-5	SABIT is BYTE-5
BYTE-6	SABIT is BYTE-6
BYTE-7	SABIT is BYTE-7
BYTE-8	SABIT is BYTE-8

4.5.94 SD_BER

The threshold for declaring Signal Degrade on a facility or path

Table 4-134 SD_BER Values

Values	Description
1E-5–1E-9	SDBER is the 1E-5–1E-9

4.5.95 SDCC_MODE

Enables or disables the Section Data Communications Channel (SDCC) for the specified facility

Table 4-135 SDCC_MODE Values

Values	Description
N	Section Data Communications Channel is disabled for this facility
Y	Section Data Communications Channel is enabled for this facility

4.5.96 SECUALMTYPE

The security alarm type

Table 4-136 SECUALMTYPE Values

Values	Description
INTRUSION-PSWD	Intrusion (password)

4.5.97 SERV_EFF

Indicates the effect of the alarm on service

Table 4-137 SERV_EFF Values

Values	Description
NSA	The condition is Non-Service Affecting
SA	The condition is Service Affecting

4.5.98 SF_BER

The threshold for declaring Signal Failure on a facility or path

Table 4-138 SF_BER Values

Values	Description
1E-3–1E-5	SFBER is the 1E-3–1E-5

4.5.99 SIDE

The role the unit is playing in the protection group

Table 4-139 SIDE Values

Values	Description
PROT	The entity is the protection unit in the protection group
WORK	The entity is a working unit in the protection group

4.5.100 SST

Secondary State. This parameter provides additional information pertaining to PST and PSTQ. Values for this state included here are a subset of the list in the GR document.

Table 4-140 SST Values

Values	Description
AINS	Out of service, auto in service
MT	Out of service, maintenance mode

4.5.101 STATUS

The status of the unit in the protection pair, either Active or Standby.

Table 4-141 STATUS Values

Values	Description
ACT	The entity is the active unit on the shelf
NA	Status is unavailable
STBY	The entity is the standby unit on the shelf

4.5.102 STM_TYPE

The Synchronous Transport Mode of the NE

Table 4-142 STM_TYPE Values

Values	Description
SDH	The NE is operating in Synchronous Digital Hierarchy mode
SONET	The NE is operating in Synchronous Optical Network mode

4.5.103 STS_MONTYPE

STS Monitor Type

Table 4-143 STS_MONTYPE Values

Values	Description
CVP	Coding Violation—P
ESP	Errored Second—Path
SESP	Severely Errored Second—Path
UASP	Unavailable Second—Path

4.5.104 STS_PATH

Modifier for some of the STS commands. This table does not include STS for the RTRV-CRS command because STS is not a standard designator.

Table 4-144 STS_PATH Values

Values	Description
STS1	Synchronous Transport Signal level-1 (51Mbs)
STS3C	Synchronous Transport Signal level-3 Concatenated (155Mbs)
STS6C	Synchronous Transport Signal level-3 Concatenated (310Mbs)
STS9C	Synchronous Transport Signal level-9 Concatenated (465Mbs)
STS12C	Synchronous Transport Signal level-12 Concatenated (622Mbs)
STS24C	Synchronous Transport Signal level-24 Concatenated (1240 Mbs)

Table 4-144 STS_PATH Values (continued)

Values	Description
STS48C	Synchronous Transport Signal level-48 Concatenated (2488 Mbs)
STS192C	Synchronous Transport Signal level-192 (9952Mbs)

4.5.105 SW

The type of switch to be initiated

Table 4-145 SW Values

Values	Description
APS-CLEAR	APS-CLEAR switch state. It is a read only switch state, and is not allowed in the OPR-PROTNSW-xxx commands.
CLEAR	CLEAR switch state. This switch state is not allowed in the OPR-PROTNSW-xxx commands.
EXERCISE	EXERCISE switch state. This switch state is not allowed in the OPR-PROTNSW-XXX commands.
FRCD	Force a switch unless another FRCD or LOCKOUT is in effect.
LOCKOUT	Locks the facility out of switching. The system cannot switch to the protect facility to carry service.
MAN	Requests a manual switch of the facility

4.5.106 SWITCH_TYPE

BLSR Switch Type. MANWKSWBK, MANWKSWPR, FRCDWKSWBK, FRCDWKSWPR, LOCKOUTOFPR, and LOCKOUTOFWK are retrieve-only values for RTRV-PROTNSW-OCn commands. They are not applicable for the OPR-PROTNSW-OCn commands.

Note RING and SPAN are the only valid values for BLSR protection switching.

Table 4-146 SWITCH_TYPE Values

Values	Description
FRCDWKSWBK	Working unit forced to switch back to working
FRCDWKSWPR	Working unit forced to switch to the protection unit
LOCKOUTOFPR	Lockout of protection
LOCKOUTOFWK	Lockout of working
MANWKSWBK	Manual switch of working unit back to working
MANWKSWPR	Manual switch of working unit back to the protection unit
RING	BLSR ring switch type
SPAN	BLSR span switch type

4.5.107 SYNC_CLOCK_REF_QUALITY_LEVEL

Clock Source Quality Level

Table 4-147 SYNC_CLOCK_REF_QUALITY_LEVEL Values

Values	Description
DUS	Don't Use for Synchronization
PRS	Primary Reference Source, Stratum 1 Traceable
RES	Reserved for network synchronization use
SMC	SONET Minimum Clock Traceable
ST2	Stratum 2 Traceable
ST3	Stratum 3 Traceable
ST3E	Stratum 3E Traceable (2nd generation only)
ST4	Stratum 4 Traceable
STU	Synchronized, Traceability Unknown
TNC	Transit Node Clock (2nd generation only)

4.5.108 SYNC_GENERATION

Synchronization status message set generation

Table 4-148 SYNC_GENERATION Values

Values	Description
GEN1	First generation SSM set
GEN2	Second generation SSM set

4.5.109 SYNC_QUALITY_LEVEL

Network synchronization quality level

Table 4-149 SYNC_QUALITY_LEVEL Values

Values	Description for Generation-1
ABOVE-PRS	Better than Primary Reference Source. Valid setting for Generation-1 and Generation-2 SSM set
ABOVE-SMC	Between SMC and ST3. Valid setting for Generation-1 and Generation-2 SSM set
ABOVE-ST2	Between ST2 and STU. Valid setting for Generation-1 and Generation-2 SSM set
ABOVE-ST3	For Generation-1 SSM set, between ST3 and ST2. For Generation-2 SSM set, between ST3 and ST3E

Table 4-149 SYNC_QUALITY_LEVEL Values (continued)

Values	Description for Generation-1
ABOVE-ST3E	Between ST3E and TNC. Valid setting only for Generation-2 SSM set
ABOVE-ST4	Between ST4 and ST3. Valid setting for Generation-1 and Generation-2 SSM set
ABOVE-STU	Between STU and PRS. Valid setting for Generation-1 and Generation-2 SSM set
ABOVE-TNC	Between TNC and ST2. Valid setting only for Generation-2 SSM set
BELOW-ST4	Below ST4 but still usable. Valid setting only for Generation-1 and Generation-2 SSM set
SAME-AS-DUS	Disable the RES message by equating it to DUS. Valid setting for Generation-1 and Generation-2 SSM set.
BELOW-ST4	Below ST4 but still usable. Valid setting for Generation-1 and Generation-2 SSM set
SAME-AS-DUS	Disable the RES message by equating it to DUS. Valid setting for Generation-1 and Generation-2 SSM set

4.5.110 SYS_TYPE

The type of the system representing the fiber and the span length that connects two nodes.

Table 4-150 SYS_TYPE Values

Values	Description
SMF-28-16CH-POWER	SMF-28 system type, Constant Power Amplification With 16 Channels
SMF-28-8CH-POWER	SMF-28 system type, Constant Power Amplification With 8 Channels
SMF-28-GAIN	SMF-28 system type, Constant Gain Amplification
SMF-28-POWER	SMF-28 system type, Constant Power Amplification With 32/64 Channels

4.5.111 T1_MONTYPE

T1 monitor type

Table 4-151 T1_MONTYPE Values

Values	Description
CVL	Coding Violation—Line
CVP	Coding Violation—Path
ESL	Errored Second—Line
SASP	Severely Errored Framing/AIS Seconds

Table 4-151 T1_MONTYPE Values (continued)

Values	Description
SESL	Severely Errored Second—Line
SESP	Severely Errored Second—Path
UASP	Unavailable Second—Path

4.5.112 T3_MONTYPE

T3 monitor type

Table 4-152 T3_MONTYPE Values

Values	Description
CVL	Coding Violation—Line
ESL	Errored Second—Line
SESL	Severely Errored Second—Line

4.5.113 TACC_MODE

Test access mode

Table 4-153 TACC_MODE Values

Values	Description
LOOPE	Indicates to split both the A and B paths, connect the line incoming from E direction to the line outgoing in the E direction, and connect this looped configuration to the FAD. The line outgoing in the F direction shall have a QRS connected, and the line incoming from the F direction shall be terminated by the nominal characteristic impedance of the line.
LOOPF	Indicates to split both the A and B paths, connect the line incoming from F direction to the line outgoing in the F direction, and connect this looped configuration to the FAD. The line outgoing in the E direction shall have a QRS connected, and the line incoming from the E direction shall be terminated by the nominal characteristic impedance of the line.
MONE	Indicates that a monitor connection is to be provided from the FAD to the A transmission path of the accessed circuit.
MONEF	Indicates that a monitor connection is to be provided from the FAD1 to a DFAD, or the odd pair of a FAP, to the A transmission path and from FAD2 of the same DFAD, or the even pair of a FAP, to the B transmission path of the accessed circuit.
MONF	Indicates that a monitor connection is to be provided from the FAD to the B transmission path of the accessed circuit.
SPLTA	Indicates that a connection is to be provided from both the E and F sides of the A transmission path of the circuit under test to the FAD and split the A transmission path.

Table 4-153 TACC_MODE Values (continued)

Values	Description
SPLTB	Indicates that a connection is to be provided from both the E and F sides of the B transmission path of the circuit under test to the FAD and split the B transmission path.
SPLTE	Indicates to split both the A and B paths and connect the E side of the accessed circuit to the FAD. The line outgoing in the F direction shall have a QRS connected, and the line incoming from the F direction shall have a QRS connected, and the line incoming from the E direction shall be terminated by the nominal characteristic impedance of the line.
SPLTEF	Indicates to split both the A and B paths, and connect the E side of the accessed circuit to FAD1 and the F side to FAD2.
SPLTF	Indicates to split both the A and B paths, and connect the F side of the accessed circuit to the FAD. The line outgoing in the E direction shall have a QRS connected, and the line incoming in the E direction shall have a QRS connected, and the line incoming from the E direction shall be terminated by the nominal characteristic impedance of the line.

4.5.114 TAPTYPE

Test Access Point Type

Table 4-154 TAPTYPE Values

Values	Description
DUAL	Dual FAD
SINGLE	Single FAD

4.5.115 TERM_MODE

Terminating mode of the card

Table 4-155 TERM_MODE Values

Values	Description
LINE	Line Terminating Mode
SEC	Section Terminating Mode
TRANS	Transparent Mode

4.5.116 TIMING_MODE

Timing mode for the current node

Table 4-156 TIMING_MODE Values

Values	Description
EXTERNAL	The node derives its clock from the BITS input
LINE	The node derives its clock from the SONET lines
MIXED	The node derives its clock from the mixed timing mode

4.5.117 TMPER

Performance parameter

Table 4-157 TMPER Values

Values	Description
15-MIN	Performance Parameter Accumulation Interval Length—Every 15 Minutes
1-DAY	Performance Parameter Accumulation Interval Length—Every 24 Hours

4.5.118 TRANS_MODE

G1000 Transponder Mode

Table 4-158 TRANS_MODE Values

Values	Description
BI	Bidirectional
NONE	Not in Transponder Mode
UNI	Unidirectional

4.5.119 TRCFORMAT

Indicates the trace format

Table 4-159 TRCFORMAT Values

Values	Description
1-BYTE	1-Byte Trace Message
16-BYTE	16-Byte Trace Message
64-BYTE	64-Byte Trace Message

4.5.120 TRCLEVEL

Indicates the trace mode options

Table 4-160 TRCLEVEL Values

Values	Description
J0	Identifies the SONET J0 Section trace level
TTI-PM	Identifies the TTI Path monitoring point
TTI-SM	Identifies the TTI Section Monitoring point

4.5.121 TRCMODE

Path Trace Mode

Table 4-161 TRCMODE Values

Values	Description
AUTO	Use the previously received path trace string as the expected string (not applicable to MXP/TXP cards)
AUTO-NO-AIS	Use the previously received path trace string as the expected string and do not turn on AIS and RDI if TIMP detected
MAN	Use the provisioned expected string as the expected string
MAN-NO-AIS	Use the provisioned expected string as the expected string and do not turn on AIS and RDI if TIMP detected
OFF	Turn off path trace capability. Nothing will be reported

4.5.122 TX_RSLT

Indicates the file transferred result

Table 4-162 TX_RSLT Values

Values	Description
FAILURE	Indicates a failed result
SUCCESS	Indicates a successful result

4.5.123 TX_STATUS

Indicates the file transferred status

Table 4-163 TX_STATUS Values

Values	Description
COMPLD	Indicates the file transmission is completed
IP	Indicates the file transmission is in process
START	Indicates the file transmission is started

4.5.124 TX_TYPE

Specifies the type and direction of the file transferred

Table 4-164 TX_TYPE Values

Values	Description
RFBU	Indicates Remote File Backup
RFR	Indicates Remote File Restore
SWDL	Indicates Software Download

4.5.125 UCP_ADM_STATE

UCP Administrative States

Table 4-165 UCP_ADM_STATE Values

Values	Description
DOWN	Indicates the UCP administrative state is down
UP	Indicates the UCP administrative state is up

4.5.126 UCP_CC_TUN_MD

UCP IP Tunneling mode. Default is DISABLED.

Table 4-166 UCP_CC_TUN_MD Values

Values	Description
DISABLED	DISABLED UCP tunneling mode
GRE	GRE UCP tunneling mode
IP-IN-IP	IP-IN-IP UCP tunneling mode

4.5.127 UCP_CKT_STATE

UCP Operation States of Circuits

Table 4-167 UCP_CKT_STATE Values

Values	Description
CLEARING	UCP circuit is in the clearing state
CLOSED	UCP circuit is in the closed state
FAILED	UCP circuit is in the failed state
LISTENING	UCP circuit is in the listening state. This state is applicable only at termination.

Table 4-167 UCP_CKT_STATE Values (continued)

Values	Description
OPEN	UCP circuit is opened
OPENING	UCP circuit is opening
PENDING	UCP circuit is in the open-pending state
RETRY	UCP circuit is in retry state. This state is applicable only at source
WAIT	UCP circuit is in wait-cc state. This state is applicable only at source

4.5.128 UCP_CRC_MODE

UCP CRC mode for this control channel, it is applicable to IPCCs of the SDCC type only.

Table 4-168 UCP_CRC_MODE Values

Values	Description
16-BIT	Indicates a 16-bit CRC mode
32-BIT	Indicates a 32-bit CRC mode

4.5.129 UCP_IPCC_TYPE

UCP Types

Table 4-169 UCP_IPCC_TYPE Values

Values	Description
ROUTED	Indicates the Optical User Network Interface–Client
SDCC	Indicates the Optical User Network Interface–Network

4.5.130 UCP_TNA_TYPE

Types of TNA (transport network administered address)

Table 4-170 UCP_TNA_TYPE Values

Values	Description
IPV4	Indicates IPV4 TNA type
IPV6	Indicates IPV6 TNA type
NSAP	Indicates NSAP TNA type

4.5.131 UNI_BI

Unidirectional and Bidirectional switch operations

Table 4-171 UNI_BI Values

Values	Description
BI	Bidirectional protection switching
UNI	Unidirectional protection switching

4.5.132 UP_DOWN

Up/Down

Table 4-172 UP_DOWN Values

Values	Description
DOWN	Down
UP	Up

4.5.133 USER_LOGINS

Indicate the number of times a user can log into the same NE with the same userid.

Table 4-173 USER_LOGINS Values

Values	Description
MULTIPLE	A user can log into the same NE many times
SINGLE	A user can log into the NE once only (includes both CTC and TL1 sessions)

4.5.134 VALIDITY

Response validity

Table 4-174 VALIDITY Values

Values	Description
COMPL	Complete Response
PRTL	Partial Response

4.5.135 VOA_CNTR_MODE

Defines the VOA control mode

Table 4-175 VOA_CNTR_MODE Values

Values	Description
ATTN	VOA has a fixed attenuation
POWER	VOA controls the attenuation to obtain a fixed output power

4.5.136 VT1_5_MONTYPE

VT1_5 Monitor Type

Table 4-176 VT1_5_MONTYPE Values

Values	Description
CVV	Coding Violation—VT Path
ESV	Errored Seconds—VT Path
SESV	Severely Errored Seconds—VT Path
UASV	Unavailable Second—VT Path

4.5.137 VT_PATH

Modifier for some of the VT commands. This table does not include VT for the RTRV-CRS command because VT is not a standard designator.

Table 4-177 VT_PATH Values

Values	Description
VT1	Virtual tributary 1
VT2	Virtual tributary 2

4.5.138 WDM

Facility Types for MXP/TXP cards

Table 4-178 WDM Values

Values	Description
CLNT	Client Facility
OCH	Optical Channel (DWDM) Facility

4.5.139 WLEN_MODE

The Wavelength configuration mode of a single node/direction

Table 4-179 WLEN_MODE Values

Values	Description
ADD	The wavelength is added at this node
DROP	The wavelength is dropped from this node
EXP	The wavelength is expressed in this node

4.5.140 YES_NO

Indicates whether or not:

1. The user's password is about to expire
2. The user is logged into the NE
3. The user is locked out of the NE

Table 4-180 YES_NO Values

YES_NO Values	Description
NO	No
YES	Yes