CHAPTER 17

REPT Messages

This chapter provides report (REPT) messages for the Cisco ONS 15454 SDH.

Note The REPT commands do not apply to the Cisco ONS 15454 M2 and Cisco ONS 15454 M6 platforms.

17.1 REPT ALM <MOD2ALM>

(Cisco ONS 15454 SDH, Cisco ONS 15454 M2, and Cisco ONS 15454 M6) The Report Alarm for 1GFC, 1GFICON, 2GFC, 2GFICON, CLNT, DS1, E100, E1000, E3, E4, EC1, ETH, FSTE, G1000, GFPOS, GIGE, ILK, ISCCOMPAT, ISC3PEER2R, ISC3PEER1G, ISC3PEER2G, OC12, OC192, OC3, OC48, OCH, OMS, OTS, POS, STM1, STM4, STM16, STM64, T1, T3, UDCDCC, UDCF, VC3,VC4,VC4-2c,VC4-3c,VC4-4c,VC4-8c,VC4-16c,VC4-64c, VC12, VCG, VT1, VT2, or WLEN (REPT ALM <MOD2ALM>) message reports an alarm condition against a facility, an RPR interface, or a path.

See Table 27-1 on page 27-1 for supported modifiers by platform.

Category Fault

Security Retrieve

Output Format

SID DATE TIME
** ATAG REPT ALM <MOD2ALM>
"<AID>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>],[<LOCN>],
[<DIRN>]:[<DESC>],[<AIDDET>]"
;

SID DATE TIME
** ATAG REPT ALM <MOD2ALM>
"<AID>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>],[<LOCN>],[
<DIRN>]:[<DESC>],[<AIDDET>]"
;

Output Example

```
   TID-000 1998-06-20 14:30:00
** 100.100 REPT ALM STM4
   "FAC-2-1:MJ,LOS,SA,08-01,14-25-59,,:\"LOSS OF SIGNAL\",STM4"
;
```

Table 17-1 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<AID>	Access identifier from the "25.17 LINE" section on page 25-29.	Y
<NTFCNCDE>	Two-letter notification code. The parameter type is NOTIF_CODE, which is a two-character notification code associated with an autonomous message.	Y
• CL	The condition causing the alarm has cleared	Y
• CR	A critical alarm	Y
• MJ	A major alarm	Y
• MN	A minor alarm	Y
• NA	The condition is not alarmed	Y
• NR	The alarm is not reported	Y
<CONDTYPE>	Condition type for an alarm or a reported event. The parameter type is CONDITION, which is any problem detected on an ONS 15454 SDH shelf, whether or not the problem is reported (that is, whether or not it generates a trouble notification). Reported conditions include alarms, Not Alarmed conditions (NA), and Not Reported (NR) conditions. See the Table 26-1 on page 26-1 for a list of conditions.	Y
<SRVEFF>	The effect on service caused by the standing alarm or condition. The parameter type is SERV_EFF, which is the effect of the alarm on service.	Y
• NSA	The condition is non-service affecting	Y
• SA	The condition is service affecting	Y
<OCRDAT>	(Optional) Date	Y
<OCRTM>	(Optional) Time	Y
<DESC>	(Optional) Condition description.	Y
<AIDDET>	(Optional) AIDDET uses the same addressing rules as the AID, but specifies AID type and additional details about the entity being managed. The parameter type is EQPT_TYPE, which is the type of equipment being provisioned into a slot.	Y
• 15216-MD-40-EVEN	Thermal Multiplex/Demultiplex Passive Unit, spaced at 50 GHz on even grid	Y
• 15216-MD-40-ODD	Thermal Multiplex/Demultiplex Passive Unit, spaced at 50 GHz on odd grid	Y

Table 17-1 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• 15216-MD-ID-50	Thermal Interleaver Passive Unit, spaced at 50 GHz grid	Y
• 15216-FLD4-30-3	Edge 4-Ch Bi-Directional OADM Module 1530.33 to 1532.68.	Y
• 15216-FLD4-33-4	Edge 4-Ch Bi-Directional OADM Module 1533.47 to 1535.82.	Y
• 15216-FLD4-36-6	Edge 4-Ch Bi-Directional OADM Module 1536.61 to 1538.98.	Y
• 15216-FLD4-39-7	Edge 4-Ch Bi-Directional OADM Module 1539.77 to 1542.14.	Y
• 15216-FLD4-42-9	Edge 4-Ch Bi-Directional OADM Module 1542.94 to 1545.32.	Y
• 15216-FLD4-46-1	Edge 4-Ch Bi-Directional OADM Module 1546.12 to 1548.51.	Y
• 15216-FLD4-49-3	Edge 4-Ch Bi-Directional OADM Module 1549.32 to 1551.72.	Y
• 15216-FLD4-52-5	Edge 4-Ch Bi-Directional OADM Module 1552.52 to 1554.94.	Y
• 15216-FLD4-55-7	Edge 4-Ch Bi-Directional OADM Module 1555.75 to 1558.17.	Y
• 15216-FLD4-58-9	Edge 4-Ch Bi-Directional OADM Module 1558.98 to 1561.42.	Y
• 32DMX-L	32-channel demultiplexer for L-band	Y
• 32WSS-L	32-channel wavelength switch selector for L-band	Y
• 40-MXP-C	40 Gbit/Sec Multirate Muxponder	Y
• 40-SMR1-C	The single module 40-channel ROADM on C-band	Y
• 40-SMR2-C	The single module 40-channel ROADM with EDFA on C-band	Y
• 40-TXP-C	40 Gigabits per second Multirate Transponder	Y
• 80-WXC-C	80-channel wavelength cross-connect spaced at 100 GHz grid	Y
• AD-1B	Optical Add/Drop Multiplexer (OADM) 1-Band Filter	Y
• AD-1C	OADM 1-Channel Filter	Y
• AD-2C	OADM 2-Channel Filter	Y
• AD-4B	OADM 4-Band Filter	Y
• AD-4C	OADM 4-Channel Filter	Y
• AICI	AIC-I card	Y
• AIP	Alarm Indication Panel	Y
• ALM-PWR	Alarm Power	Y

Table 17-1 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• ASAP-4	Any Service, Any Port (ASAP) carrier card with four pluggable interface module (PIM) slots.	Y
• BP	The backplane of the NE	Y
• CE-MR-6	Interface card which supports 10/100/1000MBPS ether facilities.	Y
• CE-100T-8	8-port 100T card	Y
• CE-1000-4	4-port GIGE mapper card	Y
• CRFT-TMG	Craft Timing	Y
• DCC	The Data Communications Channel	Y
• DCU	Dispersion Compensation Unit	Y
• DMX-32	Optical De/Multiplexed (DMX) 32 Channels	Y
• DS3i-N-12	DS3i-N-12 card	Y
• E1	E1 card	Y
• E1-42	42-port E1 card	Y
• E1000T-2	2-port interface card supporting 1000BaseT Ethernet facilities	Y
• E100T-12	12-port interface card supporting 100BaseT Ethernet facilities	Y
• E100T-4	Four-port interface card supporting 100BaseT Ethernet facilities	Y
• E1N	E1N card	Y
• E3	E3 card	Y
• FILLER_-CARD	Filler card	Y
• FMEC-155E-1TO1	The equipment type for FMEC STM1E12 card	
• FMEC-155E-1TO3	The equipment type for FMEC STM1E12 card with 1:3 protection	
• FMEC-155E-UN-PROT	The equipment type for FMEC STM1E12 card without protection	
• FMEC-SMZ-E1	FMEC card corresponding to E1 card	Y
• FMEC-SMZ-E3	FMEC card corresponding to E3 card	Y
• FTA	Fan Tray of the NE	Y
• FTA1	Fan Tray 1 of the NE	Y
• FTA2	Fan Tray 2 of the NE	Y
• G1K-4	G1K-4 card	Y
• MD-4	Optical Multiplexer/Demultiplexer with 4 Channels	Y

Table 17-1 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• MESH-PP-SMR	The passive unit Patch Panel device used to connect upto four 40-SMR2-C cards.	Y
• ML100X-8	8-port 100T card with optical interface	Y
• ML-100T-8	(Cisco ONS 15454) Exige/Elise mapper card	Y
• ML-1000-2	(Cisco ONS 15454) Daytona 2-port GigE	Y
• ML-100T-12	((Cisco ONS 15454) Daytona) 12-port FSTE	Y
• MRC-12	!2-port	Y
• MRC-2.5G-4	12G (4 * 2.5G) Muxponder card	Y
• MRC-2.5G-12	12G (4 * 2.5G) Muxponder card	Y
• MMU	Multiring mesh upgrade unit	Y
• MS-ISC-100T	Fast Ethernet switch card used for internal shelf connection	Y
• MUX-32	Optical Multiplexer (MUX) 32 Channels	Y
• MXP-2.5G-10G	10G (4 * 2.5G) Muxponder card	Y
• MXP-MR-10DME	10 Gbps datamux with enhanced FEC	Y
• OPT-AMP-L	Optical preamplifier card for L-band	Y
• OPT-BST	Optical booster amplifier	Y
• OPT-BST-L	Optical booster for L-band	Y
• OPT-EDFA-17	MAL-less EDFA Optical Amplifier - C-band - 17dB Gain	Y
• OPT-EDFA-24	MAL-less EDFA Optical Amplifier - C-band - 24dB Gain	Y
• OPT-PRE	Optical Preamplifier	Y
• OPT-RAMP-C	Raman pump amplifier C-band	Y
• OPT-RAMP-CE	An extended version of Raman pump amplifier	Y
• OPT-RAMP-COP	Raman COP card.	Y
• OPT-RAMP-CTP	Raman CTP card.	Y
• OPT-RAMP-E	Raman pump amplifier E-band	Y
• OSC-CSM	Optical Service Channel with Combiner/Separator Module	Y
• OSCM	Optical Service Channel (OSC) Module	Y
• OTU2-XP	A 4x10G transponder that is capable to operate with multiple bit rates - 10G FC, 10GE, and OC192/STM64	Y
• PIM-4	Pluggable interface module with 4 pluggable port module (PPM) slots	Y
• PP-4-SMR	Patch-Panel, 4 degrees, for SMR cards	Y
• PP-MESH-4	Patch-Panel, 4 degrees	Y
• PP-MESH-8	Patch-Panel, 8 degrees	Y
• PPM-1	Pluggable port module with 1 port SFP module	Y

Table 17-1 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• PSM	Protection Service Module card	
• PTF-4	Fabric card.	Y
• PTM-4	Line card.	Y
• PTSA	CPT 50 panel.	Y
• PTSYS- Packet Transport System	Packet transport system.	Y
• PTSYS-Fan-Out-Group	PTSYS Fan-Out-Group.	Y
• SHELF	Shelf entity	Y
• STM4	An interface card that supports one or more STM4 (622 Mbps) optical facilities	Y
• STM4-4	A four port STM4 card	Y
• STM4-IR-1	An interface card that supports one intermediate range STM4 (622 Mbps) optical facilities	Y
• STM4-LR-1	An interface card that supports one long range STM4 (622 Mbps) optical facilities	Y
• STM4-SR-1	An interface card that supports one short range STM4 (622Mbps) optical facilities	Y
• STM64-4	A four port STM64 card	Y
• STM64-LR-1	An interface card that supports one or more STM64 optical facilities	Y
• STM1	An interface card that supports multiple STM1 (155 Mbps) optical facilities	Y
• STM1-IR-4	An interface card that supports four intermediate range STM1 (155 Mbps) optical facilities	Y
• STM1-SR-4	An interface card that supports four short range STM1 (155 Mbps) optical facilities	Y
• STM1ATM-IR-6	An interface card that supports six intermediate range STM1 (155 Mbps) asynchronous transfer mode (ATM) optical fibers	Y
• STM1IR-STM1SH-1310-8	An STM1 card that has 8 ports over the lower speed slot of the ONS 15454 SDH with XC-VXL-10G/XC-VXL-2.5G	Y
• STM1-POS-SR-4	An interface card that supports four short range STM1 (155 Mbps) packet-over-SDH (POS) optical facilities	Y
• STM16	An interface card that supports one or more STM16 (10 Gbps) optical facilities	Y
• STM16-AS-1	An interface card that supports one short range OC-48 (10 Gbps) optical facilities that can be provisioned in any I/O slot	Y

Table 17-1 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• STM16-ELR-1	An interface card that supports one short range STM16 (2.5 Gbps) optical facility	Y
• STM16-IR-1	An interface card that supports one intermediate range STM16 (10 Gbps) optical facility	Y
• STM16-LR-1	An interface card that supports one long range STM16 (10 Gbps) optical facility	Y
• STM16-SR-1	An interface card that supports one short range STM16 (10 Gbps) optical facilities	Y
• TCC	Timing, Communications, and Control card	Y
• TDC-CC	Coarse tunable dispersion compensation unit	Y
• TDC-FC	Fine tunable dispersion compensation unit	Y
• TXP-MR-10G	10G Multirate Transponder card	Y
• TXP-MR-2.5G	Multirate 2.5G Unprotected	Y
• TXPP-MR-2.5G	Multirate 2.5G Protected	Y
• UNKNOWN	Unknown equipment type	Y
• UNPROVI-SIONED	Unprovisioned equipment type	Y
• XC-VXC-10G	XC-VXC-10G cross-connect card	Y
• XCVXL-10G	XC-VXL-10G cross-connect card	Y
• XCVXL-2.5G	XC-VXL-2.5G cross-connect card	Y

17.2 REPT ALM BITS

The Report Alarm Building Integrated Timing Supply (REPT ALM BITS) message reports an alarm condition on a BITS facility.

Usage Guidelines None

Category Synchronization

Security Retrieve

Output Format

```
   SID DATE TIME
** ATAG REPT ALM BITS
   "<AID>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>],[<LOCN>],
   <DIRN>]:[<DESC>]"
;
```

Output Example

```
   TID-000 1998-06-20 14:30:00
** 100.100 REPT ALM BITS
   "BITS-1:MJ,SYNC,SA,08-01,14-25-59,,:\"LOSS OF TIMING\""
;
```

Table 17-2 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<AID>	Access identifier from the "25.6 BITS" section on page 25-15.	Y
<NTFCNCDE>	Two-letter notification code. The parameter type is NOTIF_CODE, which is a two-character notification code associated with an autonomous message.	Y
• CL	The condition causing the alarm has cleared.	Y
• CR	A critical alarm.	Y
• MJ	A major alarm.	Y
• NA	The condition is not alarmed.	Y
• NR	The alarm is not reported.	Y
<CONDTYPE>	Condition type for an alarm or a reported event. The parameter type is CONDITION, which is any problem detected on an ONS 15454 SDH shelf, whether or not the problem is reported (that is, whether or not it generates a trouble notification). Reported conditions include alarms, Not Alarmed conditions (NA), and Not Reported (NR) conditions. See the Table 26-1 for a list of conditions	Y
<SRVEFF>	The effect on service caused by the standing alarm or condition. The parameter type is SERV_EFF, which is the effect of the alarm on service.	Y
• NSA	The condition is non-service affecting	Y
• SA	The condition is service affecting	Y
<OCRDAT>	(Optional) Date	Y
<OCRTM>	(Optional) Time	Y
<DESC>	(Optional) Condition description.	Y

17.3 REPT ALM COM

The Report Alarm Common (REPT ALM COM) message reports an alarm condition when an AID cannot be given, for example, a fan failure is reported using this message.

Usage Guidelines None

Category Fault

Security Retrieve

Output Format

```
   SID DATE TIME
** ATAG REPT ALM COM
   "[<AID>]:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>],[<LOCN>],
   [<DIRN>]:[<DESC>]"
;
```

Output Example

```
   TID-000 1998-06-20 14:30:00
** 100.100 REPT ALM COM
   "COM:MJ,FAN,NSA,08-01,14-25-59,,:\"FAN FAILURE\""
;
```

Table 17-3 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<AID>	(Optional) Access identifier. Identifies the entity to which the command pertains. Indicates an alarm without AID. AID is a string.	Y
<NTFCNCDE>	Two-letter notification code. The parameter type is NOTIF_CODE, which is a two-character notification code associated with an autonomous message.	Y
• CL	The condition causing the alarm has cleared.	Y
• CR	A critical alarm.	Y
• MJ	A major alarm.	Y
• MN	A minor alarm.	Y
• NA	The condition is not alarmed.	Y
• NR	The alarm is not reported.	Y
<CONDTYPE>	Condition type for an alarm or a reported event. The parameter type is CONDITION, which is any problem detected on an ONS 15454 SDH shelf, whether or not the problem is reported (that is, whether or not it generates a trouble notification). Reported conditions include alarms, Not Alarmed conditions (NA), and Not Reported (NR) conditions. See the Table 26-1 for a list of conditions.	Y

Table 17-3 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<SRVEFF>	The effect on service caused by the standing alarm or condition. The parameter type is SERV_EFF, which is the effect of the alarm on service.	Y
• NSA	The condition is non-service affecting.	Y
• SA	The condition is service affecting.	Y
<OCRDAT>	(Optional) Date	Y
<OCRTM>	(Optional) Time	Y
<DESC>	(Optional) Condition description.	Y

17.4 REPT ALM ENV

The Report Alarm Environment (REPT ALM ENV) message reports a customer-defined condition on an environmental alarm input.

Usage Guidelines None

Category Environment

Security Retrieve

Output Format

```
   SID DATE TIME
** ATAG REPT ALM ENV
   "<AID>:<NTFCNCDE>,<ALMTYPE>,[<OCRDAT>],[<OCRTM>],[<DESC>]"
;
```

Output Example

```
   TID-000 1998-06-20 14:30:00
** 100.100 REPT ALM ENV
   "ENV-IN-1:MJ,OPENDR,08-01,14-25-59,\"OPEN DOOR\""
;
```

Table 17-4 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<AID>	Access identifier from the "25.12 ENV" section on page 25-23. Identifies an environmental input.	Y
<NTFCNCDE>	Two-letter notification code. The parameter type is NOTIF_CODE, which is a two-character notification code associated with an autonomous message.	Y
• CL	The condition causing the alarm has cleared.	Y
• CR	A critical alarm.	Y
• MJ	A major alarm.	Y
• MN	A minor alarm.	Y
• NA	The condition is not alarmed.	Y
• NR	The alarm is not reported.	Y
<ALMTYPE>	Abbreviated code identifying the alarm. The parameter type is ENV_ALM, which is the environmental alarm type.	Y
• AIRCOMPR	Air compressor failure	Y
• AIRCOND	Air conditioning failure	Y
• AIRDRYR	Air dryer failure	Y
• BATDSCHRG	Battery discharging	Y
• BATTERY	Battery failure	Y
• CLFAN	Cooling fan failure	Y
• CPMAJOR	Centralized power major failure	Y
• CPMINOR	Centralized power minor failure	Y
• ENGINE	Engine failure	Y
• ENGOPRG	Engine operating	Y
• ENGTRANS	Standby engine transfer	Y
• EXPLGS	Explosive gas	Y
• FIRDETR	Fire detector failure	Y
• FIRE	Fire	Y
• FLOOD	Flood	Y
• FUELLEAK	Fuel leak	Y
• FUSE	Fuse failure	Y
• GASALARM	Explosive gas, toxic gas, ventilation fail or gas monitor fail	Y
• HATCH	Controlled Environment Vault (CEV) hatch fail	Y
• GEN	Generator failure	Y
• HIAIR	High airflow	Y
• HIHUM	High humidity	Y
• HITEMP	High temperature	Y

Table 17-4 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• HIWTR	High water	Y
• INTRUDER	Intrusion	Y
• LEVELCON	Level converter	Y
• LVDADSL	Secondary asymmetric digital subscriber line (ADSL) low voltage disconnect	Y
• LVDBYPAS	Low voltage disconnected bypass	Y
• LWBATVG	Low battery voltage	Y
• LWFUEL	Low fuel	Y
• LWHUM	Low humidity	Y
• LWPRES	Low cable pressure	Y
• LWTEMP	Low temperature	Y
• LWWTR	Low water	Y
• MISC	Miscellaneous	Y
• OPENDR	Open door	Y
• POWER	Commercial power failure	Y
• PUMP	Pump failure	Y
• PWR-48	48 V power supply failure	Y
• PWR-139	–139 V power converter	Y
• PWR-190	–190 V power converter	Y
• PWRMJ	Power supply major	Y
• PWRMN	Power supply minor	Y
• RECT	Rectifier failure	Y
• RECTHI	Rectifier high voltage	Y
• RECTLO	Rectifier low voltage	Y
• RINGGENMJ	Ringing generator major	Y
• RINGGENMN	Ringing generator minor	Y
• RTACADSL	AC or AC/rectifier power fail ADSL equipment	Y
• RTACCRIT	AC or AC/rectifier power fail DCL equipment critical site	Y
• RTACPWR	AC or AC/rectifier power fail DCL equipment	Y
• RTACP-WRENG	Commercial AC fail, site equipped with standby engine	Y
• RTBAYPWR	AC power loss distributed power RT bay	Y
• RTRVENG	Retrieve standby engine, commercial AC restored	Y
• SMOKE	Smoke	Y
• TEMP	High-low temperature	Y
• TOXICGAS	Toxic gas	Y

Table 17-4 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• TREPEATER	T-repeater shelf	Y
• VENTN	Ventilation system failure	Y
<OCRDAT>	(Optional) Date.	Y
<OCRTM>	(Optional) Time.	Y
<DESC>	(Optional) Condition description.	Y

17.5 REPT ALM LMP

(Cisco ONS 15454 SDH, Cisco ONS 15454 M2, and Cisco ONS 15454 M6) The Report Alarm Link Management Protocol (REPT ALM LMP) autonomous message is used to report the LMP-FAIL alarms for the control channels and traffic engineering (TE) links.

Usage Guidelines None

Category Fault

Security Retrieve

Output Format

```
   SID DATE TIME
** ATAG REPT ALM LMP
"[<AID>]:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>],[<LOCN>],
 [<DIRN>]:[<DESC>]"
;
```

Output Example

```
    va454-5 1998-06-20 14:30:00
A  814.812 REPT ALM LMP
    "CTRL-1:MJ,LMP-FAIL,NSA,08-01,14-25-59,,\"LMP Failure\","
;
```

Table 17-5 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<AID>	The LMP control channel AID value.	Y
• CTRL-ALL	Specifies all the control channels.	Y

Table 17-5 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• CTRL-{1-4}	Specifies an individual control channel.	Y
<NTFCNCDE>	The two-character notification code associated with an autonomous message.	Y
• CL	The condition causing the alarm has cleared.	Y
• CR	A critical alarm.	Y
• MJ	A major alarm.	Y
• MN	A minor alarm.	Y
• NA	The condition is not alarmed.	Y
• NR	The condition is not reported.	Y
<CONDTYPE>	The condition type for an alarm or a reported event. The parameter type is CONDITION, which is any problem detected on an ONS 15454, whether or not the problem is reported (that is, whether it generates a trouble notification). Reported conditions include alarms, Not-Alarmed conditions (NA), and Not-Reported (NR) conditions.	Y
<SRVEFF>	Indicates the effect of the alarm on service.	Y
• NSA	The condition is non-service affecting.	Y
• SA	The condition is service affecting.	Y
<OCRDAT>	(Optional) Date in YYYY-MM-DD format.	Y
<OCRTM>	(Optional) Time in HH:MM:SS format.	Y
<DESC>	Is a condition, alarm or event description.	Y

17.6 REPT ALM EQPT

The Report Alarm Equipment (REPT ALM EQPT) message reports an alarm condition against an equipment unit or slot.

Usage Guidelines None

Category Equipment

Security Retrieve

Output Format

```
   SID DATE TIME
** ATAG REPT ALM EQPT
   "<AID>:<NTFCNCDE>,<CONDITION>,<SRVEFF>,[<OCRDAT>],[<OCRTM>,[<LOCN>],
   [<DIRN>]:[<DESC>],[<AIDDET>]"
;
```

Output Example

```
   TID-000 1998-06-20 14:30:00
** 100.100 REPT ALM EQPT
   "SLOT-7:MJ,CONTR,NSA,08-01,14-25-59,,:\"CONTROLLER FAILURE\",TCC"
;
```

Table 17-6 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<AID>	Access identifier from the "25.13 EQPT" section on page 25-24. Equipment AID SLOT-{1-17}.	Y
<NTFCNCDE>	Two-letter notification code. The parameter type is NO-TIF_CODE, which is a two-character notification code associated with an autonomous message.	Y
• CL	The condition causing the alarm has cleared.	Y
• CR	A critical alarm.	Y
• MJ	A major alarm.	Y
• MN	A minor alarm.	Y
• NA	The condition is not alarmed.	Y
• NR	The alarm is not reported.	Y

Table 17-6 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<CONDITION>	Condition type for an alarm or a reported event. The parameter type is CONDITION, which is any problem detected on an ONS 15454 SDH shelf, whether or not the problem is reported (that is, whether or not it generates a trouble notification). Reported conditions include alarms, Not Alarmed conditions (NA), and Not Reported (NR) conditions. See the Table 26-1 for a list of conditions.	Y
<SRVEFF>	The effect on service caused by the standing alarm or condition. The parameter type is SERV_EFF, which is the effect of the alarm on service.	Y
• NSA	The condition is non-service affecting.	Y
• SA	The condition is service affecting.	Y
<OCRDAT>	(Optional) Date	Y
<OCRTM>	(Optional) Time	Y
<DESC>	(Optional) Condition description.	Y
<AIDDET>	(Optional) AIDDET uses the same addressing rules as the AID, but specifies AID type and additional details about the entity being managed. The parameter type is EQPT_TYPE, which is the type of equipment being provisioned into a slot.	Y
• 15216-MD-40-EVEN	Thermal Multiplex/Demultiplex Passive Unit, spaced at 50 GHz on even grid	Y
• 15216-MD-40-ODD	Thermal Multiplex/Demultiplex Passive Unit, spaced at 50 GHz on odd grid	Y
• 15216-MD-ID-50	Thermal Interleaver Passive Unit, spaced at 50 GHz grid	Y

Table 17-6 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• 15216-FLD4-30-3	Edge 4-Ch Bi-Directional OADM Module 1530.33 to 1532.68.	Y
• 15216-FLD4-33-4	Edge 4-Ch Bi-Directional OADM Module 1533.47 to 1535.82.	Y
• 15216-FLD4-36-6	Edge 4-Ch Bi-Directional OADM Module 1536.61 to 1538.98.	Y
• 15216-FLD4-39-7	Edge 4-Ch Bi-Directional OADM Module 1539.77 to 1542.14.	Y
• 15216-FLD4-42-9	Edge 4-Ch Bi-Directional OADM Module 1542.94 to 1545.32.	Y
• 15216-FLD4-46-1	Edge 4-Ch Bi-Directional OADM Module 1546.12 to 1548.51.	Y
• 15216-FLD4-49-3	Edge 4-Ch Bi-Directional OADM Module 1549.32 to 1551.72.	Y
• 15216-FLD4-52-5	Edge 4-Ch Bi-Directional OADM Module 1552.52 to 1554.94.	Y
• 15216-FLD4-55-7	Edge 4-Ch Bi-Directional OADM Module 1555.75 to 1558.17.	Y
• 15216-FLD4-58-9	Edge 4-Ch Bi-Directional OADM Module 1558.98 to 1561.42.	Y
• 32DMX-L	3- channel demultiplexer for L-band	Y
• 32WSS-L	32-channel wavelength switch selector for L-band	Y
• 40-MXP-C	40 Gbit/Sec Multirate Muxponder	Y
• 40-SMR1-C	The single module 40-channel ROADM on C-band	Y
• 40-SMR2-C	The single module 40-channel ROADM with EDFA on C-band	Y
• 40-TXP-C	40 Gigabits per second Multirate Transponder	Y

Table 17-6 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• 80-WXC-C	80-channel wavelength cross-connect spaced at 100 GHz grid	Y
• AD-1B	OADM 1-Band Filter	Y
• AD-1C	OADM 1-Channel Filter	Y
• AD-2C	OADM 2-Channel Filter	Y
• AD-4B	OADM 4-Band Filter	Y
• AD-4C	OADM 4-Channel Filter	Y
• AICI	AIC-I card	Y
• AIP	Alarm Indication Panel	Y
• ALM-PWR	Alarm Power	Y
• ASAP-4	ASAP carrier card with four PIM slots	N
• BP	The backplane of the NE	Y
• CE-100T-8	8-port 100T card	Y
• CE-1000-4	4-port GIGE mapper card	Y
• CRFT-TMG	Craft Timing	Y
• DCC	Data Communications Channel	Y
• DCU	Dispersion Compensation Unit	Y
• DMX-32	Optical DMX 32 Channels	Y
• DS3i-N-12	DS3i-N-12 card	Y
• E1	E1 card	Y
• E1-42	42-port E1 card	Y
• E1000T-2	2-port interface card supporting 1000BaseT Ethernet facilities	Y
• E100T-12	12-port interface card supporting 100BaseT Ethernet facilities	Y
• E100T-4	Four-port interface card supporting 100BaseT Ethernet facilities	Y
• E1N	E1N card	Y
• E3	E3 card	Y
• FILLER_-CARD	Filler card	Y
• FMEC-155E-1TO1	The equipment type for FMEC STM1E12 card	Y
• FMEC-155E-1TO3	The equipment type for FMEC STM1E12 card with 1:3 protection	

Table 17-6 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• FMEC-155E-UN-PROT	The equipment type for FMEC STM1E12 card without protection	
• FMEC-SMZ-E1	FMEC card corresponding to E1 card	Y
• FMEC-SMZ-E3	FMEC card corresponding to E3 card	Y
• FTA	Fan Tray of the NE	Y
• FTA1	Fan Tray 1 of the NE	Y
• FTA2	Fan Tray 2 of the NE	Y
• G1K-4	G1K-4 card	Y
• MD-4	Optical Multiplexer/Demultiplexer with 4 Channels	Y
• MESH-PP-SMR	The passive unit Patch Panel device used to connect upto four 40-SMR2-C cards	Y
• ML100X-8	8-port 100X card with optical interface	Y
• ML-100T-8	8-port 100T card with optical interface	Y
• MMU	Multiring mesh upgrade unit	Y
• MS-ISC-100T	Fast Ethernet switch card used for internal shelf connection	Y
• MUX-32	Optical MUX 32 Channels	Y
• MXP-2.5G-10G	10G (4 * 2.5G) Muxponder card	Y
• MXP-MR-10DME	10 Gbps datamux with enhanced FEC	Y
• OPT-AMP-L	Optical preamplifier for L-band	Y
• OPT-BST	Optical booster amplifier	Y
• OPT-BST-L	Optical booster for L-band	Y
• OPT-EDFA-17	MAL-less EDFA Optical Amplifier - C-band - 17dB Gain	Y
• OPT-EDFA-24	MAL-less EDFA Optical Amplifier - C-band - 24dB Gain	Y
• OPT-PRE	Optical Preamplifier	Y
• OPT-RAMP-C	Raman pump amplifier C-band	Y
• OPT-RAMP-CE	An extended version of Raman pump amplifier	Y
• OPT-RAMP-COP	Raman COP card.	Y

Table 17-6 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• OPT-RAMP-CTP	Raman CTP card.	Y
• OPT-RAMP-E	Raman pump amplifier E-band	Y
• OSC-CSM	Optical Service Channel with Combiner/Separator Module	Y
• OSCM	Optical Service Channel Module	Y
• OTU2-XP	A 4x10G transponder that is capable to operate with multiple bit rates - 10G FC, 10GE, and OC192/STM64	Y
• PIM-4	Pluggable interface module with 4 PPM slots	Y
• PP-4-SMR	Patch-Panel, 4 degrees, for SMR cards	Y
• PP-MESH-4	Patch-Panel, 4 degrees	Y
• PP-MESH-8	Patch-Panel, 8 degrees	Y
• PPM-1	Pluggable port module with 1-port SFP module	Y
• PSM	Protection Service Module card	Y
• PTF-4	Fabric card.	Y
• PTM-4	Line card.	Y
• PTSA	CPT 50 panel.	Y
• PTSYS-Fan-Out-Group	PTSYS Fan-Out-Group.	Y
• SHELF	Shelf entity	Y
• STM4	An interface card that supports one or more STM4 (622 Mbps) optical facilities	Y
• STM4-4	A four port STM4 card	Y
• STM4-IR-1	An interface card that supports one intermediate range STM4 (622 Mbps) optical facilities	Y
• STM4-LR-1	An interface card that supports one long range STM4 (622 Mbps) optical facilities	Y
• STM4-SR-1	An interface card that supports one short range STM4 (622 Mbps) optical facilities	Y
• STM64-4	A four port STM64 card	Y

Table 17-6 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• STM64-LR-1	An interface card that supports one or more STM64 optical facilities	Y
• STM1	An interface card that supports multiple STM1 (155 Mbps) optical facilities	Y
• STM1-IR-4	An interface card that supports four intermediate range STM1 (155 Mbps) optical facilities	Y
• STM1-SR-4	An interface card that supports four short range STM1 (155 Mbps) optical facilities	Y
• STM1ATM-IR-6	An interface card that supports six intermediate range STM1 (155 Mbps) ATM optical fibers	Y
• STM1IR-STM1SH-1310-8	An STM1 card which has 8 ports over the lower speed slot of the ONS 15454 with XC-VXL-10G/XC-VXL-2.5G	Y
• STM1-POS-SR-4	An interface card that supports four short range STM1 (155 Mbps) POS optical facilities	Y
• STM16	An interface card that supports one or more STM16 (10 Gbps) optical facilities	Y
• STM16-AS-1	An interface card that supports one short range OC-48 (10 Gbps) optical facilities that can be provisioned in any I/O slot	Y
• STM16-ELR-1	An interface card that supports one short range STM16 (2.5 Gbps) optical facility	Y
• STM16-IR-1	An interface card that supports one intermediate range STM16 (10 Gbps) optical facility	Y
• STM16-LR-1	An interface card that supports one long range STM16 (10 Gbps) optical facility	Y
• STM16-SR-1	An interface card that supports one short range STM16 (10 Gbps) optical facilities	Y
• TCC	Timing, Communications, and Control card	Y

Table 17-6 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• TDC-CC	Coarse tunable dispersion compensation unit	Y
• TDC-FC	Fine tunable dispersion compensation unit	Y
• TXP-MR-10G	10G Multirate Transponder card	Y
• TXP-MR-2.5G	Multirate 2.5G Unprotected	Y
• TXPP-MR-2.5G	Multirate 2.5G Protected	Y
• UNKNOWN	Unknown equipment type	Y
• UNPROVISIONED	Unprovisioned equipment type	Y
• XC-VXC-10G	XC-VXC-10G cross-connect card	Y
• XCVXL-10G	XC-VXL-10G cross-connect card	Y
• XCVXL-2.5G	XC-VXL-2.5G cross-connect card	Y

17.7 REPT ALM SECU

The Report Alarm Security (REPT ALM SECU) message reports the occurrence of an alarmed security event against the NE.

Usage Guidelines

Based on Telcordia TR-NWT-000835, the AID of the security alarm should be the Connection Identifier (CID), which is not currently supported.

The COM or UID is an acceptable substitute for the AID.

Note The INTRUSION-PSWD condition is the only condition that is reported as a standing condition instead of a transient condition. It defaults to NA and is reported by the REPT EVT SECU message. However, it can be reprovisioned to be reported at a higher severity. If the severity of this alarm is higher than NA, it is reported by the REPT ALM SECU message.

Category

Security

Security

Superuser

Output Format

```
   SID DATE TIME
** ATAG REPT ALM SECU
   "<AID>:<NOTIFCODE>,<SECUALMTYPE>"
;
```

Output Example

```
   TID-000 1998-06-20 14:30:00
** 100.100 REPT ALM SECU
   "COM:CR,INTRUSION-PSWD"
;
```

Table 17-7 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<AID>	Access identifier. Identifies an entity with the condition. Defaults to COM. AID is a string.	Y
<NOTIFCODE>	Two-letter notification code. The parameter type is NO-TIF_CODE, which is the two-character notification code associated with an autonomous message.	Y
• CL	The condition causing the alarm has cleared.	Y
• CR	A critical alarm.	Y
• MJ	A major alarm.	Y
• MN	A minor alarm.	Y
• NA	The condition is not alarmed.	Y
• NR	The alarm is not reported.	Y
<SECUALMTYPE>	Security alarm type. It is a subset of the CONDITION type. In this release, the only allowable type is INTRUSION-PSWD. The parameter type is SECUALM-TYPE, which is the security alarm type.	Y
• INTRU-SION-PSWD	Condition raised after an invalid password is used during login. This condition is raised only if the password is used a specific number of times.	Y

17.8 REPT ALM SYNCN

The Report Alarm Synchronization (REPT ALM SYNCH) message reports an alarm condition against a synchronization reference.

Usage Guidelines None

Category Synchronization

Security Retrieve

Output Format

```
   SID DATE TIME
** ATAG REPT ALM SYNCN
   "<AID>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>],[<LOCN>],
   [<DIRN>]:[<DESC>],
   [<EQPTTYPE>]"
;
```

Output Example

```
   TID-000 1998-06-20 14:30:00
** 100.100 REPT ALM SYNCN
   "SYNC-NE:MJ,MAN,SA,08-01,14-25-59,,:\"MANUAL SWITCH\",TCC"
;
```

Table 17-8 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<AID>	Access identifier from the "25.28 SYNC_REF" section on page 25-37. Identifies a synchronization reference with alarm condition.	Y
<NTFCNCDE>	Notification code. The parameter type is NOTIF_CODE, which is a two-character notification code associated with an autonomous message.	Y
• CL	The condition causing the alarm has cleared.	Y
• CR	A critical alarm.	Y
• MJ	A major alarm.	Y
• MN	A minor alarm.	Y
• NA	The condition is not alarmed.	Y
• NR	The alarm is not reported.	Y

Table 17-8 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<CONDTYPE>	Condition type for an alarm or a reported event. The parameter type is CONDITION, which is any problem detected on an ONS 15454 SDH shelf, whether or not the problem is reported (that is, whether or not it generates a trouble notification). Reported conditions include alarms, Not Alarmed (NA) conditions, and Not Reported (NR) conditions. See the Table 26-1 for a list of conditions.	Y
<SRVEFF>	The effect on service caused by the standing alarm or condition. The parameter type is SERV_EFF, which is the effect of the alarm on service.	Y
• NSA	The condition is non-service affecting.	Y
• SA	The condition is service affecting.	Y
<OCRDAT>	(Optional) Date	Y
<OCRTM>	(Optional) Time	Y
<DESC>	(Optional) Condition description.	Y
<EQPTTYPE>	(Optional) The parameter type is EQPT_-TYPE, which is the type of equipment being provisioned into a slot.	Y
• 10GE-XP	(ONS 15454) 2 x 10 Gbps. muxponder/L2 ethernet switch card	Y
• 15216-MD-40-EVEN	Thermal Multiplex/Demultiplex Passive Unit, spaced at 50 GHz on even grid	Y
• 15216-MD-40-ODD	Thermal Multiplex/Demultiplex Passive Unit, spaced at 50 GHz on odd grid	Y
• 15216-MD-ID-50	Thermal Interleaver Passive Unit, spaced at 50 GHz grid	Y
• 15216-FLD4-30-3	Edge 4-Ch Bi-Directional OADM Module 1530.33 to 1532.68.	Y
• 15216-FLD4-33-4	Edge 4-Ch Bi-Directional OADM Module 1533.47 to 1535.82.	Y
• 15216-FLD4-36-6	Edge 4-Ch Bi-Directional OADM Module 1536.61 to 1538.98.	Y
• 15216-FLD4-39-7	Edge 4-Ch Bi-Directional OADM Module 1539.77 to 1542.14.	Y
• 15216-FLD4-42-9	Edge 4-Ch Bi-Directional OADM Module 1542.94 to 1545.32.	Y
• 15216-FLD4-46-1	Edge 4-Ch Bi-Directional OADM Module 1546.12 to 1548.51.	Y

Table 17-8 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• 15216-FLD4-49-3	Edge 4-Ch Bi-Directional OADM Module 1549.32 to 1551.72.	Y
• 15216-FLD4-52-5	Edge 4-Ch Bi-Directional OADM Module 1552.52 to 1554.94.	Y
• 15216-FLD4-55-7	Edge 4-Ch Bi-Directional OADM Module 1555.75 to 1558.17.	Y
• 15216-FLD4-58-9	Edge 4-Ch Bi-Directional OADM Module 1558.98 to 1561.42.	Y
• 32-DMX	(ONS 15454) 32 channel optical demultiplexer	Y
• 32-DMX-L	(ONS 15454) 32 channel optical demultiplexer for L-band	Y
• 32-DMX-O	(ONS 15454) 32 channel unidirectional optical demultiplexer This overrides the old equipment type DMX-32 present in the 4.6 and earlier releases.	Y
• 32-MUX-O	(ONS 15454) 32 channel unidirectional optical multiplexer This overrides the old equipment type MUX-32 present in the 4.6 and earlier releases.	Y
• 32-WSS	(ONS 15454) 32 channel optical wavelength selective switch for C Band	Y
• 40-DMX-C	(ONS 15454) 40 channel optical demultiplexer for C Band	Y
• 40-MUX-C	(ONS 15454) 40 channel optical multiplexer for C Band	Y
• 40-MXP-C	40 Gbit/Sec Multirate Muxponder	Y
• 40-SMR1-C	The single module 40-channel ROADM on C-band	Y
• 40-SMR2-C	The single module 40-channel ROADM with EDFA on C-band	Y
• 40-TXP-C	40 Gigabits per second Multirate Transponder	Y
• 40-WSS-C	(ONS 15454) 40 channel optical wavelength switch selector for C Band	Y
• 40-WXC-C	(ONS 15454) 40 channel optical wavelength cross-connect/wavelength router for C Band	Y
• 80-WXC-C	80-channel wavelength cross-connect spaced at 100 GHz grid	Y
• AD-1B	(ONS 15454) Optical add/drop multiplexed (OADM) 1 band filter	Y

Table 17-8 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• AD-1C	(ONS 15454) Optical add/drop multiplexed (OADM) 1 channel filter	Y
• AD-2C	(ONS 15454) Optical add/drop multiplexed (OADM) 2 channels filter	Y
• AD-4B	(ONS 15454) Optical add/drop multiplexed (OADM) 4 bands filter	Y
• AD-4C	(ONS 15454) Optical add/drop multiplexed (OADM) 4 channels filter	Y
• ADM-10G	(ONS 15454) 16 x OC3/OC12/OC48/GIGE and OC192/Trunk ADM 10 Gbps card	Y
• AIC	(ONS 15454) AIC card	Y
• AICI	(ONS 15454) AICI Card	Y
• CE-1000-4	(ONS 15454) Modena mapper card	Y
• CE-100T-8	(ONS 15454) Exige/Elise mapper card	Y
• CE-MR-10	(ONS 15454, ONS 15454 SDH) Lotus20g ce2 card	Y
• DCU	Dispersion Compensation Unit	Y
• DS1-28-DS3-EC1-3	DS1-28-DS3-EC1-3 card	Y
• DS1-84-DS3-EC1-3	DS1-84-DS3-EC1-3 card	Y
• DS1-E1-56	(ONS 15454) DS1-E1-56 card	Y
• DS1I	(ONS 15454) DS1I card	Y
• DS1N	(ONS 15454) DS1N card	Y
• DS3	(ONS 15454) DS3 card	Y
• E1-21-DS3-E3-3	E1-21-DS3-E3-3	N
• E1-63-DS3-E3-3	E1-63-DS3-E3-3	N
• FMEC-155E-1TO1	The equipment type for FMEC STM1E12 card	Y
• FMEC-155E-1TO3	The equipment type for FMEC STM1E12 card with 1:3 protection	Y
• FMEC-155E-UNPROT	The equipment type for FMEC STM1E12 card without protection	Y
• CE-100T-8	CE-100T-8	Y
• MESH-PP-SMR	The passive unit Patch Panel device used to connect upto four 40-SMR2-C cards	Y
• OPT-EDFA-17	MAL-less EDFA Optical Amplifier - C-band - 17dB Gain	Y
• OPT-EDFA-24	MAL-less EDFA Optical Amplifier - C-band - 24dB Gain	Y
• OPT-RAMP-C	Raman pump amplifier C-band	Y

Table 17-8 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• OPT-RAMP-CE	An extended version of Raman pump amplifier	Y
• OPT-RAMP-COP	Raman COP card.	Y
• OPT-RAMP-CTP	Raman CTP card.	Y
• OPT-RAMP-E	Raman pump amplifier E-band	Y
• OSCM	(ONS 15454) Optical service channel (OSC) module	Y
• OTU2-XP	A 4x10G transponder that is capable to operate with multiple bit rates - 10G FC, 10GE, and OC192/STM64	Y
• PP-4-SMR	Patch-Panel, 4 degrees, for SMR cards	Y
• PP-MESH-4	Patch-Panel, 4 degrees	Y
• PP-MESH-8	Patch-Panel, 8 degrees	Y
• PPM-1	(ONS 15454) Pluggable port module with one SFP port	Y
• PSM	Protection Service Module card	
• PTF-4	Fabric card.	Y
• PTM-4	Line card.	Y
• PTSA	CPT 50 panel.	Y
• PTSYS- Fan-Out-Group	PTSYS Fan-Out-Group.	Y
• STM1E-12	(ONS 15454 SDH) STM1E-12 card	Y
• TCC	(ONS 15454) TCC card	Y
• TDC-CC	Coarse tunable dispersion compensation unit	Y
• TDC-FC	Fine tunable dispersion compensation unit	Y
• TXP-MR-2.5G	(ONS 15454) Rockwell multirate 2.5G un-protected	Y
• TXPP-MR-2.5G	(ONS 15454) Rockwell multirate 2.5G protected	Y
• XC	(ONS 15454) XC card	Y
• XC10G	(ONS 15454) XC10G card	Y
• XCVT	(ONS 15454) XCVT card	Y
• XCVXC-10G	(ONS 15454) XCVXC-10G card	Y
• XCVXC-2.5G	(ONS 15454) XCVXC-2.5G card	Y
• XCVXL-10G	(ONS 15454) XCVXL-10G card	Y
• XCVXL-2.5G	(ONS 15454) XCVXL-2.5G card	Y

17.9 REPT DBCHG

The Report Database Change (REPT DBCHG) message reports any changes on the NE that result from:

- TL1 provisioning commands or their graphical user interface (GUI) equivalents containing the verbs: ALW, DLT, ED, ENT, INH, INIT, OPR, RLS, SET, and SW (for example, DLT-EQPT, ENT-CRS-VC3).
- External event such as a board insertion.

When secondary state is changed from AutomaticInService state to any other state, no REPT DBCHG messages are generated.

Usage Guidelines

- The REPT DBCHG is turned off by default. To turn REPT DBCHG on, you must issue the ALW-MSG-DBCHG command.
- <SOURCE> and <USERID> are optional string parameters with a maximum length of 20 characters.
- <COMMAND> is a string parameter with a maximum length of 20 characters.
- <AID> is a string parameter with a maximum length of 64 characters. Any excess characters will be truncated.
- REPT DBCHG messages will be generated every time a roll is performed. A cross-connect delete and add REPT DBCHG message will not be sent every time a roll is performed.

Category

Log

Security

Retrieve

Output Format

```
   SID DATE TIME
A ATAG REPT DBCHG
   "TIME=<TIME>,DATE=<DATE>,[SOURCE=<SOURCE>],[USERID=<USERID>],
   DBCHGSEQ=<DBCHGSEQ>:<COMMAND>:[<AID>]:::[<PSTPSTQ>,],<SST>"
;
```

Output Example

```
   TID-000 1998-06-20 14:30:00
A 100 REPT DBCHG
   "TIME=14-35-46,DATE=99-07-28,SOURCE=123,USERID=CISCO15,DBCHGSEQ=456:
   ENT-CRS-VC4:VC4-4-1-2-6-4:::Locked-Enabled, AutomaticInService"
;
```

Table 17-9 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<TIME>	The time of the message triggered by the NE.	Y
<DATE>	The date of the message triggered by the NE.	Y
<SOURCE>	(Optional) An input-command CTAG if present. SOURCE is a string.	Y
<USERID>	(Optional) The user name or user identifier. USERID is a string.	Y
<DBCHGSEQ>	Identifier or range of identifiers to be retrieved. It is a sequential number of the DBCHGSEQ message. DBCHSEQ is an integer	Y
<COMMAND>	The input command or substitute. COMMAND is a string.	Y
<AID>	Access identifier. AID is a string.	Y
• Unlocked-Disabled	Out of service and autonomous	Y
• Locked-Disabled	Out of service and autonomous and management	Y
• Locked-Enabled	Out of service and management	Y
<SST>	Secondary state. The parameter type is SST, which provides additional information pertaining to PST and PSTQ.	Y
• AutomaticInService	Automatic in service	Y
• Disabled	Disabled	Y
• Loopback	Loopback	Y
• MismatchofEquipmentAlarm	Mismatch of equipment and attributes	Y
• Maintenance	Maintenance mode	Y
• OutOfGroup	Out of group	Y
• SoftwareDownload	Software downloading	Y
• Unassigned	Unassigned	Y
• NotInstalled	Unequipped	Y

17.10 REPT EVT <MOD2ALM>

(Cisco ONS 15454, ONS 15327) The Report Event for 1GFC, 1GFICON, 2GFC, 2GFICON, CLNT, DS1, E100, E1000, E3, E4, EC1, ETH, FSTE, G1000, GFPOS, GIGE, ILK, ISCCOMPAT, ISC3PEER2R, ISC3PEER1G, ISC3PEER2G, OC12, OC192, OC3, OC48, OCH, OMS, OTS, POS, STM1,STM4,STM16,STM64, T1, T3, UDCDCC, UDCF, VC3, VC4, VC4-2c, VC4-3c, VC4-4c, VC4-8c, VC4-16c,VC4-64c, VC12, VCG, VT1, VT2, WLEN, or RPRIF (REPT EVT <MOD2ALM>) message reports the occurrence of a nonalarmed event. In Software Release 5.0 and later, REPT EVT

<MOD2ALM> can report the remote monitoring (RMON)-managed threshold crossing alarm. See Table 27-1 on page 27-1 for supported modifiers by platform.

Usage Guidelines

None

Category

Fault

Security

Retrieve

Output Format

```
   SID DATE TIME
A ATAG REPT EVT <MOD2ALM>
   "<AID>:<CONDTYPE>,[<CONDEFF>],,,[<LOCN>],[<DIRN>],[<MONVAL>],[<THLEV>],
[<TMPER>]:[<DESC>],[<AIDDET>]"
;
```

Output Example

```
   TID-000 1998-06-20 14:30:00
A 100.100 REPT EVT STM16
   "FAC-5-1:WKSWPR,TC,,,FEND,,12,13,15-MIN:\"WORKING SWITCH TOPROTECTION\",
   STM16"
;
```

Table 17-10 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<AID>	Access identifier from the "25.1 ALL" section on page 25-1.	Y
<CONDTYPE>	Condition type for an alarm or a reported event. The parameter type is CONDITION, which is any problem detected on an ONS 15454 SDH shelf, whether or not the problem is reported (that is, whether or not it generates a trouble notification). Reported conditions include alarms, Not Alarmed (NA) conditions, and Not Reported (NR) conditions. See the Table 26-1 for a list of conditions.	Y
<CONDEFF>	(Optional) The effect of the event on the condition of the NE. The parameter type is COND_EFF, which is the state of the condition upon the affected unit.	Y
• CL	Standing condition cleared	Y
• SC	Standing condition raised	Y
• TC	Transient condition	Y

Table 17-10 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<LOCN>	(Optional) Location associated with a particular command in reference to the entity identified by the AID. The parameter type is LOCATION, which is the location where the action is to take place.	Y
• FEND	Action occurs on the Far End of the facility.	Y
• NEND	Action occurs on the Near End of the facility.	Y
<DIRN>	Direction relative to the entity identified by the AID. Direction of PM relative to the entity identified by the AID. The parameter type is DIRECTION (transmit and receive directions).	Y
• BTH	Both transmit and receive directions	Y
• RCV	Receive direction only	Y
• TRMT	Transmit direction only	Y
<MONVAL>	(Optional) Monitored value. Value to which the register identified by MONTYPE is to be initialized to or the measured value of a monitored parameter. The value is in the form of numeric counts or rates. MONVAL is a float.	Y
<THLEV>	(Optional) Threshold level. THLEV is a float.	Y
<TMPER>	(Optional) Accumulation time period for performance counters. The parameter type is TMPER, which is the accumulation time period for the performance management center.	Y
• 1-DAY	Performance parameter accumulation interval length; every 24-hours. For SDH PM data only one day of history data is available. For RMON managed PM data seven days of history data are available.	Y
• 1-HR	Performance parameter accumulation interval length; every 1 hour. This is only applicable to RMON managed PM data. There are 24 hours of history data available.	Y
• 1-MIN	Performance parameter accumulation interval length; every 1 minute. This is only applicable to RMON managed PM data. There are 60 minutes of history available.	Y
• 15-MIN	Performance parameter accumulation interval length; every 15 minutes. There are 32 15-MIN buckets of history data available for this accumulation interval length.	Y
• RAW-DATA	Performance parameter accumulation interval length; starting from the last time the counters were cleared. This is only applicable to RMON managed PMs.	Y
<DESC>	(Optional) Condition description.	Y
<AIDDET>	(Optional) AIDDET uses the same addressing rules as the AID, but specifies AID type and additional details about the entity being managed. The parameter type is EQPT_TYPE, which is the type of equipment being provisioned into a slot.	Y

Table 17-10 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• 15216-MD-40-EVEN	Thermal Multiplex/Demultiplex Passive Unit, spaced at 50 GHz on even grid.	Y
• 15216-MD-40-ODD	Thermal Multiplex/Demultiplex Passive Unit, spaced at 50 GHz on odd grid.	Y
• 15216-MD-ID-50	Thermal Interleaver Passive Unit, spaced at 50 GHz grid	Y
• 15216-FLD4-30-3	Edge 4-Ch Bi-Directional OADM Module 1530.33 to 1532.68.	Y
• 15216-FLD4-33-4	Edge 4-Ch Bi-Directional OADM Module 1533.47 to 1535.82.	Y
• 15216-FLD4-36-6	Edge 4-Ch Bi-Directional OADM Module 1536.61 to 1538.98.	Y
• 15216-FLD4-39-7	Edge 4-Ch Bi-Directional OADM Module 1539.77 to 1542.14.	Y
• 15216-FLD4-42-9	Edge 4-Ch Bi-Directional OADM Module 1542.94 to 1545.32.	Y
• 15216-FLD4-46-1	Edge 4-Ch Bi-Directional OADM Module 1546.12 to 1548.51.	Y
• 15216-FLD4-49-3	Edge 4-Ch Bi-Directional OADM Module 1549.32 to 1551.72.	Y
• 15216-FLD4-52-5	Edge 4-Ch Bi-Directional OADM Module 1552.52 to 1554.94.	Y
• 15216-FLD4-55-7	Edge 4-Ch Bi-Directional OADM Module 1555.75 to 1558.17.	Y
• 15216-FLD4-58-9	Edge 4-Ch Bi-Directional OADM Module 1558.98 to 1561.42.	Y
• 32DMX-L	32 channels demultiplexer for L-band.	Y
• 32WSS-L	32 channels wavelength switch selector for L-band.	Y
• 40-MXP-C	40 Gbit/Sec Multirate Muxponder.	Y
• 40-SMR1-C	The single module 40-channel ROADM on C-band.	Y
• 40-SMR2-C	The single module 40-channel ROADM with EDFA on C-band.	Y
• 40-TXP-C	40 Gigabits per second Multirate Transponder.	Y
• 80-WXC-C	80-channel wavelength cross-connect spaced at 100 GHz grid.	Y
• AD-1B	OADM 1-Band Filter	Y
• AD-1C	OADM 1-Channel Filter	Y
• AD-2C	OADM 2-Channel Filter	Y
• AD-4B	OADM 4-Band Filter	Y
• AD-4C	OADM 4-Channel Filter	Y
• AICI	AIC-I card	Y
• AIP	Alarm Indication Panel	Y
• ALM-PWR	Alarm Power	Y
• ASAP-4	ASAP carrier card with four PIM slots	Y
• BP	The backplane of the NE	Y
• CE-100T-8	8-port 100T card	Y
• CE-1000-4	4-port GIGE mapper card	Y
• CRFT-TMG	Craft Timing	Y
• DCC	Data Communications Channel	Y

Table 17-10 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• DCU	Dispersion Compensation Unit	Y
• DMX-32	Optical DMX 32 Channels	Y
• DS3i-N-12	DS3i-N-12 card	Y
• E1	E1 card	Y
• E1-42	42-port E1 card	Y
• E1000T-2	2-port interface card supporting 1000BaseT Ethernet facilities	Y
• E100T-12	12-port interface card supporting 100BaseT Ethernet facilities	Y
• E100T-4	Four-port interface card supporting 100BaseT Ethernet facilities	Y
• E1N	E1N card	Y
• E3	E3 card	Y
• FILLER_-CARD	Filler card	Y
• FMEC-155E-1TO3	The equipment type for FMEC STM1E12 card with 1:3 protection	Y
• FMEC-155E-UN-PROT	The equipment type for FMEC STM1E12 card without protection	Y
• FMEC-SMZ-E1	FMEC card corresponding to E1 card	Y
• FMEC-SMZ-E3	FMEC card corresponding to E3 card	Y
• FTA	Fan Tray of the NE	Y
• FTA1	Fan Tray 1 of the NE	Y
• FTA2	Fan Tray 2 of the NE	Y
• G1K-4	G1K-4 card	Y
• MD-4	Optical Multiplexer/Demultiplexer with 4 Channels	Y
• MESH-PP-SMR	The passive unit Patch Panel device used to connect upto four 40-SMR2-C cards	Y
• ML100X-8	8-port 100T card with optical interface	Y
• ML-100T-8	(Cisco ONS 15454) Exige/Elise mapper card	Y
• MMU	Multiring mesh upgrade unit	Y
• MS-ISC-100T	Fast Ethernet switch card used for internal shelf connection	Y
• MUX-32	Optical MUX 32 Channels	Y
• MXP-2.5G-10G	10G (4 * 2.5G) Muxponder card	Y
• MXP-MR-10DME	10 Gbps datamux with enhanced FEC	Y
• OPT-AMP-L	Optical preamplifier for L-band	Y
• OPT-BST	Optical booster amplifier	Y
• OPT-BST-L	Optical booster for L-band	Y

Table 17-10 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• OPT-EDFA-17	MAL-less EDFA Optical Amplifier - C-band - 17dB Gain	Y
• OPT-EDFA-24	MAL-less EDFA Optical Amplifier - C-band - 24dB Gain	Y
• OPT-PRE	Optical Preamplifier	Y
• OPT-RAMP-C	Raman Pump Amplifier C Band	Y
• OPT-RAMP-CE	An extended version of Raman pump amplifier	Y
• OPT-RAMP-COP	Raman COP card.	Y
• OPT-RAMP-CTP	Raman CTP card.	
• OPT-RAMP-E	Raman pump amplifier E-band	Y
• OSC-CSM	Optical Service Channel with Combiner/Separator Module	Y
• OSCM	Optical Service Channel Module	Y
• OTU2-XP	A 4x10G transponder that is capable to operate with multiple bit rates - 10G FC, 10GE, and OC192/STM64	Y
• PIM-4	Pluggable interface module with 4 PPM slots	Y
• PP-4-SMR	Patch-Panel, 4 degrees, for SMR cards	Y
• PP-MESH-4	Patch-Panel, 4 degrees	Y
• PP-MESH-8	Patch-Panel, 8 degrees	Y
• PPM-1	Pluggable port module with 1-port SFP module	Y
• PSM	Protection Service Module card	
• PTF-4	Fabric card.	Y
• PTM-4	Line card.	Y
• PTSA	CPT 50 panel.	Y
• PTSYS-Fan-Out-Group	PTSYS Fan-Out-Group.	Y
• SHELF	Shelf entity	Y
• STM4	An interface card that supports one or more STM4 (622 Mbps) optical facilities	Y
• STM4-4	A four port STM4 card	Y
• STM4-IR-1	An interface card that supports one intermediate range STM4 (622 Mbps) optical facilities	Y
• STM4-LR-1	An interface card that supports one long range STM4 (622 Mbps) optical facilities	Y
• STM4-SR-1	An interface card that supports one short range STM4 (622 Mbps) optical facilities	Y
• STM64-4	A four port STM64 card	Y
• STM64-LR-1	An interface card that supports one or more STM64 optical facilities	Y
• STM1	An interface card that supports multiple STM1 (155 Mbps) optical facilities	Y

Table 17-10 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• STM1-IR-4	An interface card that supports four intermediate range STM1 (155 Mbps) optical facilities	Y
• STM1-SR-4	An interface card that supports four short range STM1 (155 Mbps) optical facilities	Y
• STM1ATM-IR-6	An interface card that supports six intermediate range STM1 (155 Mbps) ATM optical fibers	Y
• STM1IR-STM1SH-1310-8	An STM1 card which has 8 ports over the lower speed slot of the ONS 15454 SDH with XC-VXL-10G/XC-VXL-2.5G	Y
• STM1-POS-SR-4	An interface card that supports four short range STM1 (155 Mbps) POS optical facilities	Y
• STM16	An interface card that supports one or more STM16 (10 Gbps) optical facilities	Y
• STM16-AS-1	An interface card that supports one short range OC-48 (10 Gbps) optical facilities that can be provisioned in any I/O slot	Y
• STM16-ELR-1	An interface card that supports one short range STM16 (2.5 Gbps) optical facility	Y
• STM16-IR-1	An interface card that supports one intermediate range STM16 (10 Gbps) optical facility	Y
• STM16-LR-1	An interface card that supports one long range STM16 (10 Gbps) optical facility	Y
• STM16-SR-1	An interface card that supports one short range STM16 (10 Gbps) optical facilities	Y
• TCC	Timing, Communications, and Control card	Y
• TDC-CC	Coarse tunable dispersion compensation unit	Y
• TDC-FC	Fine tunable dispersion compensation unit	Y
• TXP-MR-10G	10G Multirate Transponder card	Y
• TXP-MR-2.5G	Multirate 2.5G Unprotected	Y
• TXPP-MR-2.5G	Multirate 2.5G Protected	Y
• UNKNOWN	Unknown equipment type	Y
• UNPROVI-SIONED	Unprovisioned equipment type	Y
• XC-VXC-10G	XC-VXC-10G cross-connect card	Y
• XCVXL-10G	XC-VXL-10G cross-connect card	Y
• XCVXL-2.5G	XC-VXL-2.5G cross-connect card	Y

17.11 REPT EVT BITS

The Report Event Building Integrated Timing Supply (REPT EVT BITS) message reports a nonalarmed event against a BITS facility.

Usage Guidelines None

Category Synchronization

Security Retrieve

Output Format

SID DATE TIME
** ATAG REPT EVT BITS
"<AID>:<CONDTYPE>,[<CONDEFF>],,,,,,[<LOCN>],[<DIRN>]:[<DESC>]"
;

Output Example

TID-000 1998-06-20 14:30:00
A 100.100 REPT EVT BITS
"BITS-1:SSM-STU,TC,,,,,,,:\"SYNCHRONIZED - TRACEABILITY UNKNOWN\""
;

Table 17-11 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<AID>	Access identifier from the "25.6 BITS" section on page 25-15.	Y
<CONDTYPE>	Condition type for an alarm or a reported event. The parameter type is CONDITION, which is any problem detected on an ONS 15454 SDH shelf, whether or not the problem is reported (that is, whether or not it generates a trouble notification). Reported conditions include alarms, Not Alarmed (NA) conditions, and Not Reported (NR) conditions. See the Table 26-1 for a list of conditions.	Y
<CONDEFF>	(Optional) The effect of the event on the condition of the NE. The parameter type is COND_EFF, which is the state of the condition upon the affected unit.	Y
• CL	Standing condition cleared	Y
• SC	Standing condition raised	Y

Table 17-11 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• TC	Transient condition	Y
<DESC>	(Optional) Condition description.	Y

17.12 REPT EVT COM

The Report Event Common (REPT EVT COM) message reports a nonalarmed event against an NE when there is no AID associated with it.

Usage Guidelines None

Category Fault

Security Retrieve

Output Format

```
   SID DATE TIME
A ATAG REPT EVT COM
   "[<AID>]:<CONDTYPE>,[<CONDEFF>],,,,,,[<LOCN>],[<DIRN>]:[<DESC>]"
;
```

Output Example

```
   TID-000 1998-06-20 14:30:00
A 100.100 REPT EVT COM
   "COM:CLDRESTART,TC,,,,,,,:\"COLD RESTART\","
;
```

Table 17-12 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<AID>	(Optional) Access identifier. Identifies the entity to which the command pertains. AID is a string.	Y
<CONDTYPE>	(Optional) Condition type for an alarm or a reported event. The parameter type is CONDITION, which is any problem detected on an ONS 15454 SDH shelf, whether or not the problem is reported (that is, whether or not it generates a trouble notification). Reported conditions include alarms, Not Alarmed (NA) conditions, and Not Reported (NR) conditions. See the Table 26-1 for a list of conditions.	Y

Table 17-12 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<CONDEFF>	The effect of the event on the condition of the NE. The parameter type is COND_EFF, which is the state of the condition upon the affected unit.	Y
• CL	Standing condition cleared	Y
• SC	Standing condition raised	Y
• TC	Transient condition	Y
<DESC>	(Optional) Condition description.	Y

17.13 REPT EVT ENV

The Report Event Environment (REPT EVT ENV) message reports the occurrence of a nonalarmed event against an environment alarm input.

Usage Guidelines None

Category Environment

Security Retrieve

Output Format

SID DATE TIME
A ATAG REPT EVT ENV
"<AID>:<ALMTYPE>,[<CONDEFF>],,,,,,[<LOCN>],[<DIRN>]:[<DESC>]"
;

Output Example

TID-000 1998-06-20 14:30:00
A 100.100 REPT EVT ENV
"ENV-IN-2:OPENDR,TC,,,,,,,:\"OPEN DOOR\""
;

Table 17-13 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<AID>	Access identifier from the "25.12 ENV" section on page 25-23. Identifies an environmental input.	Y
<ALMTYPE>	Abbreviated code identifying the alarm. The parameter type is ENV_ALM, which is the environmental alarm type.	Y
• AIRCOMPR	Air compressor failure	Y
• AIRCOND	Air conditioning failure	Y
• AIRDRYR	Air dryer failure	Y
• BATDSCHRG	Battery discharging	Y
• BATTERY	Battery failure	Y
• CLFAN	Cooling fan failure	Y
• CPMAJOR	Centralized power major failure	Y
• INTRUDER	Intrusion	Y
• LEVELCON	Level converter	Y
• LVDADSL	Secondary ADSL low voltage disconnect	Y
• LVDBYPAS	Low voltage disconnect bypass	Y

Table 17-13 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• LWBATVG	Low battery voltage	Y
• LWFUEL	Low fuel	Y
• LWHUM	Low humidity	Y
• LWPRES	Low cable pressure	Y
• LWTEMP	Low temperature	Y
• LWWTR	Low water	Y
• MISC	Miscellaneous	Y
• OPENDR	Open door	Y
• POWER	Commercial power failure	Y
• PUMP	Pump failure	Y
• PWR-48	48 V power supply failure	Y
• PWR-139	–139 V power converter	Y
• PWR-190	–190 V power converter	Y
• PWRMJ	Power supply major	Y
• PWRMN	Power supply minor	Y
• RECT	Rectifier failure	Y
• RECTHI	Rectifier high voltage	Y
• RECTLO	Rectifier low voltage	Y
• RINGGENMJ	Ringing generator major	Y
• RINGGENMN	Ringing generator minor	Y
• RTACADSL	AC or AC/rectifier power fail ADSL equipment	Y
• RTACCRIT	AC or AC/rectifier power fail DCL equipment critical site	Y
• RTACPWR	AC or AC/rectifier power fail DCL equipment	Y
• RTACP-WRENG	Commercial AC fail, site equipped with standby engine	Y
• RTBAYPWR	AC power loss distributed power RT bay	Y
• RTRVENG	Retrieve standby engine, commercial AC restored	Y
• SMOKE	Smoke	Y
• TEMP	High-low temperature	Y
• TOXICGAS	Toxic gas	Y
• TREPEATER	T-repeater shelf	Y
• VENTN	Ventilation system failure	Y
<CONDEFF>	(Optional) The effect of the event on the condition of the NE. The parameter type is COND_EFF, which is the state of the condition upon the affected unit.	Y
• CL	Standing condition cleared	Y

Table 17-13 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• SC	Standing condition raised	Y
• TC	Transient condition	Y
<DESC>	(Optional) Condition description.	Y

17.14 REPT EVT EQPT

The Report Event Equipment (REPT EVT EQPT) message reports the occurrence of a nonalarmed event against an equipment unit or slot.

Usage Guidelines None

Category Equipment

Security Retrieve

Output Format

SID DATE TIME
A ATAG REPT EVT EQPT
"<AID>:<CONDTYPE>,[<CONDEFF>],,,,,,[<LOCN>],[<DIRN>]:[<DESC>],[<AIDDET>]"
;

Output Example

TID-000 1998-06-20 14:30:00
A 100.100 REPT EVT EQPT
"SLOT-7:PLUGIN,TC,,,,,,,:\"EQUIPMENT PLUG-IN\",TCC"
;

Table 17-14 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<AID>	Access identifier from the "25.13 EQPT" section on page 25-24. Equipment AID SLOT-{1-17}.	Y
<CONDTYPE>	Condition type for an alarm or a reported event. The parameter type is CONDITION, which is any problem detected on an ONS 15454 SDH shelf, whether or not the problem is reported (that is, whether or not it generates a trouble notification). Reported conditions include alarms, Not Alarmed (NA) conditions, and Not Reported (NR) conditions. See the Table 26-1 for a list of conditions.	Y

Table 17-14 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<CONDEFF>	(Optional) The effect of the event on the condition of the NE. The parameter type is COND_EFF, which is the state of the condition upon the affected unit.	Y
• CL	Standing condition cleared	Y
• SC	Standing condition raised	Y
• TC	Transient condition	Y
<DESC>	(Optional) Condition description.	Y
<AIDDET>	(Optional) AIDDET uses the same addressing rules as the AID, but specifies AID type and additional details about the entity being managed. The parameter type is EQPT_TYPE, which is the type of equipment being provisioned into a slot.	Y
• 15216-MD-40-EVEN	Thermal Multiplex/Demultiplex Passive Unit, spaced at 50 GHz on even grid	Y
• 15216-MD-40-ODD	Thermal Multiplex/Demultiplex Passive Unit, spaced at 50 GHz on odd grid	Y
• 15216-MD-ID-50	Thermal Interleaver Passive Unit, spaced at 50 GHz grid	Y
• 15216-FLD4-30-3	Edge 4-Ch Bi-Directional OADM Module 1530.33 to 1532.68.	Y
• 15216-FLD4-33-4	Edge 4-Ch Bi-Directional OADM Module 1533.47 to 1535.82.	Y
• 15216-FLD4-36-6	Edge 4-Ch Bi-Directional OADM Module 1536.61 to 1538.98.	Y
• 15216-FLD4-39-7	Edge 4-Ch Bi-Directional OADM Module 1539.77 to 1542.14.	Y
• 15216-FLD4-42-9	Edge 4-Ch Bi-Directional OADM Module 1542.94 to 1545.32.	Y
• 15216-FLD4-46-1	Edge 4-Ch Bi-Directional OADM Module 1546.12 to 1548.51.	Y
• 15216-FLD4-49-3	Edge 4-Ch Bi-Directional OADM Module 1549.32 to 1551.72.	Y
• 15216-FLD4-52-5	Edge 4-Ch Bi-Directional OADM Module 1552.52 to 1554.94.	Y
• 15216-FLD4-55-7	Edge 4-Ch Bi-Directional OADM Module 1555.75 to 1558.17.	Y
• 15216-FLD4-58-9	Edge 4-Ch Bi-Directional OADM Module 1558.98 to 1561.42.	Y
• 32DMX-L	32-channel demultiplexer for L-band	Y
• 32WSS-L	32-channel wavelength switch selector for L-band	Y
• 40-MXP-C	40 Gbit/Sec Multirate Muxponder	Y
• 40-SMR1-C	The single module 40-channel ROADM on C-band	Y

Table 17-14 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• 40-SMR2-C	The single module 40-channel ROADM with EDFA on C-band	Y
• 40-TXP-C	40 Gigabits per second Multirate Transponder	Y
• 80-WXC-C	80-channel wavelength cross-connect spaced at 100 GHz grid	Y
• AD-1B	OADM 1-Band Filter	Y
• AD-1C	OADM 1-Channel Filter	Y
• AD-2C	OADM 2-Channel Filter	Y
• AD-4B	OADM 4-Bans Filter	Y
• AD-4C	OADM 4-Channel Filter	Y
• AICI	AIC-I card	Y
• AIP	Alarm Indication Panel	Y
• ALM-PWR	Alarm Power	Y
• ASAP-4	ASAP carrier card with four PIM slots	Y
• BP	The backplane of the NE	Y
• CE-100T-8	8-port 100T card	Y
• CE-1000-4	4-port GIGE mapper card	Y
• CRFT-TMG	Craft Timing	Y
• DCC	Data Communications Channel	Y
• DCU	Dispersion Compensation Unit	Y
• DMX-32	Optical DMX 32 Channels	Y
• DS3i-N-12	DS3i-N-12 card	Y
• E1	E1 card	Y
• E1-42	42-port E1 card	Y
• E1000T-2	2-port interface card supporting 1000BaseT Ethernet facilities	Y
• E100T-12	12-port interface card supporting 100BaseT Ethernet facilities	Y
• E100T-4	Four-port interface card supporting 100BaseT Ethernet facilities	Y
• E1N	E1N card	Y
• E3	E3 card	Y
• FILLER_-CARD	Filler card	Y
• FMEC-155E-1TO1	The equipment type for FMEC STM1E12 card	Y
• FMEC-155E-1TO3	The equipment type for FMEC STM1E12 card with 1:3 protection	
• FMEC-155E-UNPROT	The equipment type for FMEC STM1E12 card without protection	
• FMEC-SMZ-E1	FMEC card corresponding to E1 card	Y

Table 17-14 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• FMEC-SMZ-E3	FMEC card corresponding to E3 card	Y
• FTA	Fan Tray of the NE	Y
• FTA1	Fan Tray 1 of the NE	Y
• FTA2	Fan Tray 2 of the NE	Y
• G1K-4	G1K-4 card	Y
• MD-4	Optical Multiplexer/Demultiplexer with 4 Channels	Y
• ML100X-8	8-port 100T card with optical interface	Y
• MMU	Multiring mesh upgrade unit	Y
• MS-ISC-100T	Fast Ethernet switch card used for internal shelf connection	Y
• MUX-32	Optical MUX 32 Channels	Y
• MXP-2.5G-10G	10G (4 * 2.5G) Muxponder card	Y
• MXP-MR-10DME	10 Gbps datamux with enhanced FEC	Y
• OPT-AMP-L	Optical preamplifier for L-band	Y
• OPT-BST	Optical booster amplifier	Y
• OPT-BST-L	Optical booster for L-band	Y
• OPT-EDFA-17	MAL-less EDFA Optical Amplifier - C-band - 17dB Gain	Y
• OPT-EDFA-24	MAL-less EDFA Optical Amplifier - C-band - 24dB Gain	Y
• OPT-PRE	Optical Preamplifier	Y
• OPT-RAMP-C	Raman Pump Amplifier C Band	Y
• OPT-RAMP-CE	An extended version of Raman pump amplifier	Y
• OPT-RAMP-COP	Raman COP card.	Y
• OPT-RAMP-CTP	Raman CTP card.	
• OPT-RAMP-E	Raman pump amplifier E-band	Y
• OSC-CSM	Optical Service Channel with Combiner/Separator Module	Y
• OSCM	Optical Service Channel Module	Y
• OTU2-XP	A 4x10G transponder that is capable to operate with multiple bit rates - 10G FC, 10GE, and OC192/STM64	Y
• PIM-4	Pluggable interface module with 4 PPM slots	Y
• PP-4-SMR	Patch-Panel, 4 degrees, for SMR cards	Y
• PP-MESH-4	Patch-Panel, 4 degrees	Y
• PP-MESH-8	Patch-Panel, 8 degrees	Y
• PPM-1	Pluggable port module with 1-port SFP module	Y
• PSM	Protection Service Module card	
• PTF-4	Fabric card.	Y
• PTM-4	Line card.	Y

Table 17-14 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• PTSA	CPT 50 panel.	Y
• PTSYS-Fan-Out-Group	PTSYS Fan-Out-Group.	Y
• SHELF	Shelf entity	Y
• STM4	An interface card that supports one or more STM4 (622 Mbps) optical facilities	Y
• STM4-4	A four port STM4 card	Y
• STM4-IR-1	An interface card that supports one intermediate range STM4 (622 Mbps) optical facilities	Y
• STM4-LR-1	An interface card that supports one long range STM4 (622 Mbps) optical facilities	Y
• STM4-SR-1	An interface card that supports one short range STM4 (622 Mbps) optical facilities	Y
• STM64-4	A four-port STM64 card	Y
• STM64-LR-1	An interface card that supports one or more STM64 optical facilities	Y
• STM1	An interface card that supports multiple STM1 (155 Mbps) optical facilities	Y
• STM1-IR-4	An interface card that supports four intermediate range STM1 (155 Mbps) optical facilities	Y
• STM1-SR-4	An interface card that supports four short range STM1 (155 Mbps) optical facilities	Y
• STM1ATM-IR-6	An interface card that supports six intermediate range STM1 (155 Mbps) ATM optical fibers	Y
• STM1IR-STM1SH-1310-8	An STM1 card which has 8 ports over the lower speed slot of the ONS 15454 SDH with XC-VXL-10G/XC-VXL-2.5G	Y
• STM1-POS-SR-4	An interface card that supports four short range STM1 (155 Mbps) POS optical facilities	Y
• STM16	An interface card that supports one or more STM16 (10 Gbps) optical facilities	Y
• STM16-AS-1	An interface card that supports one short range OC-48 (10 Gbps) optical facilities that can be provisioned in any I/O slot	Y
• STM16-ELR-1	An interface card that supports one short range STM16 (2.5 Gbps) optical facility	Y
• STM16-IR-1	An interface card that supports one intermediate range STM16 (10 Gbps) optical facility	Y
• STM16-LR-1	An interface card that supports one long range STM16 (10 Gbps) optical facility	Y
• STM16-SR-1	An interface card that supports one short range STM16 (10 Gbps) optical facilities	Y

Table 17-14 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• TCC	Timing, Communications, and Control card	Y
• TDC-CC	Coarse tunable dispersion compensation unit	Y
• TDC-FC	Fine tunable dispersion compensation unit	Y
• TXP-MR-10G	10G Multirate Transponder card	Y
• TXP-MR-2.5G	Multirate 2.5G Unprotected	Y
• TXPP-MR-2.5G	Multirate 2.5G Protected	Y
• UNKNOWN	Unknown equipment type	Y
• UNPROVI-SIONED	Unprovisioned equipment type	Y
• XC-VXC-10G	XC-VXC-10G cross-connect card	Y
• XCVXL-10G	XC-VXL-10G cross-connect card	Y
• XCVXL-2.5G	XC-VXL-2.5G cross-connect card	Y

17.15 REPT EVT FXFR

The Report Event Software Download (REPT EVT FXFR) message reports the FTP software download status of the start, completion, and completed percentage.

Usage Guidelines

- The FXFR_RSLT is only sent when the FXFR_STATUS is COMPLD.
- The PRCNT_XFRD is only sent when the FXFR_STATUS is IP or COMPLD.

Category

File Transfer

Security

Retrieve

Output Format

```
   SID DATE TIME
A ATAG REPT EVT FXFR
   "<FILENAME>,<FXFR_STATUS>,[<FXFR_RSLT>],[<PRCNT_XFRD>]"
;
```

Output Example

```
   TID-000 1998-06-20 14:30:00
A 100.100 REPT EVT FXFR
   "NEW.PKG,COMPLD,SUCCESS,21215147"
;
```

Table 17-15 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<FILENAME>	When a package is being transferred between the FTP server and the controller cards, the filename field will contain the string ACTIVE. Following this transfer, if there is a second controller card on the NE, the file will be copied over to the second card during which time REPT EVT FXFR messages will be generated with a filename of STANDBY. FILENAME is a string.	Y
<FXFR_STATUS>	The status of the file transfer: Start, IP (in progress), or COMPLD. The parameter type is TX_STATUS, which is the status of the file transfer.	Y
• COMPLD	The file transmission is completed.	Y
• IP	The file transmission is in progress.	Y
• START	The file transmission is started.	Y
<FXFR_RSLT>	(Optional) The result of the file transfer: Success or Failure. The parameter type is TX_RSLT, which is the result of the file transfer.	Y
• FAILURE	A failed result	Y
• SUCCESS	A successful result	Y
<PRCNT_XFRD>	(Optional) The percentage transfer complete. PRCNT_XFRD is a string.	Y

17.16 REPT EVT IOSCFG

The Report Event Cisco IOS Configuration File (REPT EVT IOSCFG) message reports the status of copying the Cisco IOS configuration file when the COPY-IOSCFG command is issued.

Usage Guidelines

- You can identify if this message is caused by a Cisco IOS configuration file downloading, uploading or merging by looking at the SRC and DEST field in the message. Refer to the COPY-IOSCFG command for more details.
- There is no success/failure in the message to indicate the success or failure of the merge process when merging the startup Cisco IOS configuration file to the running configuration file.

Category

File Transfer

Security

Retrieve

Output Format

```
   SID DATE TIME
A  ATAG REPT EVT IOSCFG
   "<AID>:<SRC>,<DEST>,<STATUS>,[<RESULT>]"
;
```

Output Example

```
   TID-000 1998-06-20 14:30:00
A 100.100 REPT EVT IOSCFG
   "SLOT-1:STARTUP,IOS-CONFIG-FILE-IN-NETWORK,COMPLD,SUCCESS"
;
```

Table 17-16 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<AID>	Access identifier from the "25.13 EQPT" section on page 25-24. Slot AID for the equipment.	Y
<SRC>	Source access identifier. Specifies where the Cisco IOS config file is copied from. SRC is a string.	Y
<DEST>	Destination. Specifies where the Cisco IOS config file is copied to. DEST is a string.	Y
<STATUS>	The status of COPY-IOSCFG: Start, IP, or COMPLD. The parameter type is TX_STATUS, which is the status of the file transfer.	Y
• COMPLD	The file transmission is completed.	Y
• IP	The file transmission is in progress.	Y
• START	The file transmission is started.	Y

Table 17-16 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<RESULT>	(Optional) The result of the file transfer: Success or Failure. the parameter type is TX_RSLT, which is the result of the file transfer.	Y
• FAILURE	A failed result	Y
• SUCCESS	A successful result	Y

17.17 REPT EVT SECU

The Report Event Security (REPT-EVT-SECU) message reports the occurrence of a nonalarmed security event against the NE. Based on Telcordia TR-NWT-000835.

Usage Guidelines

- The AID of the security alarm should be the CID, which is not supported in this release. The COM or UID is an acceptable substitute for the AID here. CIDs will be supported in a future release.
- For the rule of single failure, single message/alarm, the security alarm will not be reported as REPT ALM COM, because it is reported as REPT ALM SECU.
- Because the NE sends this security message as a transient message, to make all TL1 autonomous messages consistent, the TL1 agent reports the security message into REPT EVT SECU.
- This message is inhibited by default. A Superuser will have to issue the ALW-MSG-SECU to see this message.

Category

Security

Security

Superuser

Output Format

```
   SID DATE TIME
A  ATAG REPT EVT SECU
  "<AID>:<DNFIELD>,[<CONDEFF>],,,[<LOCN>],[<DIRN>],,,:<SECURITY>:<DNFIELD1>"
;
```

Output Example

```
   TID-000 1998-06-20 14:30:00
A  100.100 REPT EVT SECU
   "COM:LOGIN-FAILURE-PSWD,TC,,,,,,,:\"SECURITY:
   INVALID LOGIN - PASSWORD - SEE AUDIT LOG\""
;
```

Table 17-17 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<AID>	Access identifier. Identifies an entity with the condition. Defaults to COM. AID is a string.	Y
<DNFIELD>	String.	Y
<CONDEFF>	(Optional) The effect of the event on the condition of the NE. The parameter type is COND_EFF, which is the state of the condition upon the affected unit.	Y
• CL	Standing condition cleared	Y
• SC	Standing condition raised	Y
• TC	Transient condition	Y
• RCV	Receive direction only	Y
• TRMT	Transmit direction only	Y
<SECURITY>	The category of condition. SECURITY is a string.	Y
<DNFIELD1>	DNFIELD1 is a string.	Y

17.18 REPT EVT SESSION

The Report Event Session (REPT EVT SESSION) message reports a nonalarmed event related to establishing a session with the NE.

Usage Guidelines

The WARN field might contain different information depending on the type of session-related event.

- If the password aging feature has not been enabled (or the feature is enabled but the password is not close to expiring):

  /*USER <UID> LOGGED IN <IP/SERIAL PORT*/

- If the forced password feature is enforced and the user is logging in for the first time (or the password has expired):

  /*PLEASE CHANGE PASSWORD BEFORE CONTINUING*/

- If a session is terminated for any reason (except a user timeout), the reason for the session termination is indicated in the warning (<WARN>).

Category

Security

Security

Retrieve

Output Format

```
   SID DATE TIME
A  ATAG REPT EVT SESSION
   "<AID>:<EXP>,<PCN>"
   "<WARN>"
;
```

Output Example

```
   TID-000 1998-06-20 14:30:00
A  100.100 REPT EVT SESSION
   "TCCP:YES,5-DAY"
   "/* USER TERRI LOGGED IN TO TCCP */"
;
```

Table 17-18 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<AID>	Access identifier. Identifies the NE with which a session is established. AID is a string.	Y
<EXP>	Indicates whether the password is alive (for example, no password updating is required at the moment), expired, or is about to expire. the parameter type is YES_NO, which indicates whether the user's password is about to expire, the user is logged into the NE or the user is locked out of the NE.	Y
• NO	No	Y
• YES	Yes	Y
<PCN>	The number of days still remaining before the existing password expires. PCN is a string. PCN appears only if EXP=YES and one of the following conditions exists: • The warning period has not been exhausted • The user is a new user establishing a session for the first time and the forced password change policy has been activated.	Y
<WARN>	Free format text containing additional information about the security event. WARN is a string.	Y

17.19 REPT EVT SYNCN

The Report Event Synchronization (REPT EVT SYNCN) message reports the occurrence of a non-alarmed event against a synchronization entity.

Usage Guidelines None

Categories Synchronization

Security Retrieve

Output Format

SID DATE TIME
A ATAG REPT EVT SYNCN
"<AID>:<CONDTYPE>,[<CONDEFF>],,,,,,[<LOCN>],[<DIRN>]:[<DESC>],[<AIDDET>]"
;

Output Example

TID-000 1998-06-20 14:30:00
A 100.100 REPT EVT SYNCN
"SYNC-NE:SWTOINT,SC,,,,,,,:\"SWITCH TO INTERNAL CLOCK\",TCC";

Table 17-19 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<AID>	Access identifier from the "25.1 ALL" section on page 25-1.	Y
<CONDTYPE>	Condition type for an alarm or a reported event. The parameter type is CONDITION, which is any problem detected on an ONS 15454 SDH shelf, whether or not the problem is reported (that is, whether or not it generates a trouble notification). Reported conditions include alarms, Not Alarmed (NA) conditions, and Not Reported (NR) conditions. See the Table 26-1 for a list of conditions.	Y
<CONDEFF>	(Optional) The effect of the event on the condition of the NE. The parameter type is COND_EFF, which is the state of the condition upon the affected unit.	Y
• CL	Standing condition cleared	Y
• SC	Standing condition raised	Y
• TC	Transient condition	Y
<DESC>	(Optional) Condition description.	Y
<AIDDET>	(Optional) AIDDET uses the same addressing rules as the AID, but specifies AID type and additional details about the entity being managed. The parameter type is EQPT_TYPE, which is the type of equipment being provisioned into a slot.	Y
• 15216-MD-40-EVEN	Thermal Multiplex/Demultiplex Passive Unit, spaced at 50 GHz on even grid	Y
• 15216-MD-40-ODD	Thermal Multiplex/Demultiplex Passive Unit, spaced at 50 GHz on odd grid	Y
• 15216-MD-ID-50	Thermal Interleaver Passive Unit, spaced at 50 GHz grid	Y
• 15216-FLD4-30-3	Edge 4-Ch Bi-Directional OADM Module 1530.33 to 1532.68.	Y
• 15216-FLD4-33-4	Edge 4-Ch Bi-Directional OADM Module 1533.47 to 1535.82.	Y

Table 17-19 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• 15216-FLD4-36-6	Edge 4-Ch Bi-Directional OADM Module 1536.61 to 1538.98.	Y
• 15216-FLD4-39-7	Edge 4-Ch Bi-Directional OADM Module 1539.77 to 1542.14.	Y
• 15216-FLD4-42-9	Edge 4-Ch Bi-Directional OADM Module 1542.94 to 1545.32.	Y
• 15216-FLD4-46-1	Edge 4-Ch Bi-Directional OADM Module 1546.12 to 1548.51.	Y
• 15216-FLD4-49-3	Edge 4-Ch Bi-Directional OADM Module 1549.32 to 1551.72.	Y
• 15216-FLD4-52-5	Edge 4-Ch Bi-Directional OADM Module 1552.52 to 1554.94.	Y
• 15216-FLD4-55-7	Edge 4-Ch Bi-Directional OADM Module 1555.75 to 1558.17.	Y
• 15216-FLD4-58-9	Edge 4-Ch Bi-Directional OADM Module 1558.98 to 1561.42.	Y
• 32DMX-L	32-channel demultiplexer for L-band	Y
• 32WSS-L	32-channel wavelength switch selector for L-band	Y
• 40-MXP-C	40 Gbit/Sec Multirate Muxponder	Y
• 40-SMR1-C	The single module 40-channel ROADM on C-band	Y
• 40-SMR2-C	The single module 40-channel ROADM with EDFA on C-band	Y
• 40-TXP-C	40 Gigabits per second Multirate Transponder	Y
• 80-WXC-C	80-channel wavelength cross-connect spaced at 100 GHz grid	Y
• AD-1B	OADM 1-Band Filter	Y
• AD-1C	OADM 1-Channel Filter	Y
• AD-2C	OADM 2-Channel Filter	Y
• AD-4B	OADM 4-Bans Filter	Y
• AD-4C	OADM 4-Channel Filter	Y
• AICI	AIC-I card	Y
• AIP	Alarm Indication Panel	Y
• ALM-PWR	Alarm Power	Y
• ASAP-4	ASAP carrier card with four PIM slots	Y
• BP	The backplane of the NE	Y
• CE-100T-8	8-port 100T card	Y
• CE-1000-4	4-port GIGE mapper card	Y
• CRFT-TMG	Craft Timing	Y
• DCC	Data Communications Channel	Y
• DCU	Dispersion Compensation Unit	Y
• DMX-32	Optical DMX 32 Channels	Y
• DS3i-N-12	DS3i-N-12 card	Y
• E1	E1 card	Y
• E1-42	42-port E1 card	Y
• E1000T-2	2-port interface card supporting 1000BaseT Ethernet facilities	Y

Table 17-19 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• E100T-12	12-port interface card supporting 100BaseT Ethernet facilities	Y
• E100T-4	Four-port interface card supporting 100BaseT Ethernet facilities	Y
• E1N	E1N card	Y
• E3	E3 card	Y
• FILLER_-CARD	Filler card	Y
• FMEC-155E-1TO3	The equipment type for FMEC STM1E12 card with 1:3 protection	Y
• FMEC-155E-UNPROT	The equipment type for FMEC STM1E12 card without protection	Y
• FMEC-SMZ-E1	FMEC card corresponding to E1 card	Y
• FMEC-SMZ-E3	FMEC card corresponding to E3 card	Y
• FTA	Fan Tray of the NE	Y
• FTA1	Fan Tray 1 of the NE	Y
• FTA2	Fan Tray 2 of the NE	Y
• G1K-4	G1K-4 card	Y
• MD-4	Optical Multiplexer/Demultiplexer with 4 Channels	Y
• MESH-PP-SMR	The passive unit Patch Panel device used to connect upto four 40-SMR2-C cards	Y
• ML100X-8	8-port 100T card with optical interface	Y
• MMU	Multiring mesh upgrade unit	Y
• MS-ISC-100T	Fast Ethernet switch card used for internal shelf connection	Y
• MUX-32	Optical MUX 32 Channels	Y
• MXP-2.5G-10G	10G (4 * 2.5G) Muxponder card	Y
• MXP-MR-10DME	10 Gbps datamux with enhanced FEC	Y
• OPT-AMP-L	Optical preamplifier for L-band	Y
• OPT-BST	Optical booster amplifier	Y
• OPT-BST-L	Optical booster for L-band	Y
• OPT-EDFA-17	MAL-less EDFA Optical Amplifier - C-band - 17dB Gain	Y
• OPT-EDFA-24	MAL-less EDFA Optical Amplifier - C-band - 24dB Gain	Y
• OPT-PRE	Optical Preamplifier	Y
• OPT-RAMP-C	Raman pump amplifier C-band	Y
• OPT-RAMP-CE	An extended version of Raman pump amplifier	Y
• OPT-RAMP-E	Raman pump amplifier E-band	Y
• OPT-RAMP-COP	Raman COP card.	Y

Table 17-19 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• OPT-RAMP-CTP	Raman CTP card.	Y
• OSC-CSM	Optical Service Channel with Combiner/Separator Module	Y
• OSCM	Optical Service Channel Module	Y
• OTU2-XP	A 4x10G transponder that is capable to operate with multiple bit rates - 10G FC, 10GE, and OC192/STM64	Y
• PIM-4	Pluggable interface module with 4 PPM slots	Y
• PP-4-SMR	Patch-Panel, 4 degrees, for SMR cards	Y
• PP-MESH-4	Patch-Panel, 4 degrees	Y
• PP-MESH-8	Patch-Panel, 8 degrees	Y
• PPM-1	Pluggable port module with 1-port SFP module	Y
• PSM	Protection unit	Y
• PTF-4	Fabric card.	Y
• PTM-4	Line card.	Y
• PTSA	CPT 50 panel.	Y
• PTSYS-Fan-Out-Group	PTSYS Fan-Out-Group.	Y
• SHELF	Shelf entity	Y
• STM4	An interface card that supports one or more STM4 (622 Mbps) optical facilities	Y
• STM4-4	A four port STM4 card	Y
• STM4-IR-1	An interface card that supports one intermediate range STM4 (622 Mbps) optical facilities	Y
• STM4-LR-1	An interface card that supports one long range STM4 (622 Mbps) optical facilities	Y
• STM4-SR-1	An interface card that supports one short range STM4 (622 Mbps) optical facilities	Y
• STM64-4	A four-port STM64 card	Y
• STM64-LR-1	An interface card that supports one or more STM64 optical facilities	Y
• STM1	An interface card that supports multiple STM1 (155 Mbps) optical facilities	Y
• STM1-IR-4	An interface card that supports four intermediate range STM1 (155 Mbps) optical facilities	Y
• STM1-SR-4	An interface card that supports four short range STM1 (155 Mbps) optical facilities	Y
• STM1ATM-IR-6	An interface card that supports six intermediate range STM1 (155 Mbps) ATM optical fibers	Y

Table 17-19 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• STM1IR-STM1SH-1310-8	An STM1 card which has 8 ports over the lower speed slot of the ONS 15454 SDH with XC-VXL-10G/XC-VXL-2.5G	Y
• STM1-POS-SR-4	An interface card that supports four short range STM1 (155 Mbps) POS optical facilities	Y
• STM16	An interface card that supports one or more STM16 (10 Gbps) optical facilities	Y
• STM16-AS-1	An interface card that supports one short range OC-48 (10 Gbps) optical facilities that can be provisioned in any I/O slot	Y
• STM16-ELR-1	An interface card that supports one short range STM16 (2.5 Gbps) optical facility	Y
• STM16-IR-1	An interface card that supports one intermediate range STM16 (10 Gbps) optical facility	Y
• STM16-LR-1	An interface card that supports one long range STM16 (10 Gbps) optical facility	Y
• STM16-SR-1	An interface card that supports one short range STM16 (10 Gbps) optical facilities	Y
• TCC	Timing, Communications, and Control card	Y
• TDC-CC	Coarse tunable dispersion compensation unit	Y
• TDC-FC	Fine tunable dispersion compensation unit	Y
• TXP-MR-10G	10G Multirate Transponder card	Y
• TXP-MR-2.5G	Multirate 2.5G Unprotected	Y
• TXPP-MR-2.5G	Multirate 2.5G Protected	Y
• UNKNOWN	Unknown equipment type	Y
• UNPROVI-SIONED	Unprovisioned equipment type	Y
• XC-VXC-10G	XC-VXC-10G cross-connect card	Y
• XCVXL-10G	XC-VXL-10G cross-connect card	Y
• XCVXL-2.5G	XC-VXL-2.5G cross-connect card	Y

17.20 REPT PM <MOD2>

The Report Performance Monitoring for 10GFC, 10GIGE, 1GFC, 1GFICON, 2GFC, 2GFICON, CLNT, D1VIDEO, DS3I, DV6000, E1, E3, E4, ESCON, ETRCLO, ETH, FSTE, G1000, GFPOS, GIGE, HDTV, ISC1, ILK, ISCCOMPAT, ISC3PEER2R, ISC3PEER1G, ISC3PEER2G, STM4, STM64, STM1, STM16, OCH, OMS, OTS, POS, STM1E, VC3, VC44C, VC38C, VC464C, VC48C, STS36C, VC4, VC416C, VC42C, VC43C, or VC12 (REPT PM <MOD2>) message reports autonomous monitoring statistics as a result of the schedule created by SCHED-PMREPT.

Usage Guidelines See Table 27-1 on page 27-1 for supported modifiers by platform.

Note Autonomous performance monitoring (Auto PM) report will have all PM paths reported without any filtering. If a particular parameter is not applicable to that card or circuit, then the value of MONVAL and VLDTY will be NA.

Category Performance

Security Retrieve

Output Format

```
   SID DATE TIME
A  ATAG REPT PM <MOD2>
   "<AID>:<MONTYPE>,<MONVAL>,<VLDTY>,<lSTM>,<DIRN>,<TMPER>,<MONDAT>,
   <MONTM>"
;
```

Output Example

```
   TID-000 1998-06-20 14:30:00
A  100  REPT PM 10GFC
   "FAC-3-1:CVL,10,PRTL,NEND,BTH,15-MIN,05-25,14-46"
;
```

Table 17-20 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<AID>	Access identifier from the "25.1 ALL" section on page 25-1.	Y
<MONTYPE>	Monitored type. The parameter type is ALL_MONTYPE, which is the monitoring type list.	Y
• AISSP	Alarm Indication Signal Seconds—Path	Y
• ALL	All possible values	Y
• BBEP	SDH Background Block Errors Path	Y
• BBE-PM	OTN—Background Block Errors—Path Monitor Point	Y
• BBER	SDH Background Block Error Ratio	Y
• BBER-PM	OTN—Background Block Error Ratio—Path Monitor Point expressed as one tenth of a percentage.	Y
• BBER-SM	OTN—Background Block Error Ratio—Section Monitor Point expressed as one tenth of a percentage	Y
• BBE-SM	OTN—Background Block Errors—Section Monitor Point	Y
• BIEC	FEC—Bit Errors Corrected	Y
• CGV	8B10B—Code Group Violations	Y

Table 17-20 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• CVCPP	Coding Violations—CP-Bit Path	Y
• CVL	Coding Violations—Line	Y
• CVP	Coding Violations—Path	Y
• CVS	Coding Violations—Section	Y
• CVV	Coding Violations—Section	Y
• DCG	8B10B—Data Code Groups	Y
• ESCPP	Errored Seconds—CP—Bit Path	Y
• ESL	Errored Seconds—Line	Y
• ESP	Errored Seconds—Path	Y
• ES-PM	OTN—Errored Seconds—Path Monitor Point	Y
• ESR	Errored Second—Ratio	Y
• ESR-PM	Errored Seconds Ratio—Path monitor Point expressed as one tenth of a percentage	Y
• ESR-SM	Errored Seconds Ratio—Section monitor Point expressed as one tenth of a percentage	Y
• ESS	Errored Seconds—Section	Y
• ES-SM	OTN—Errored Seconds—Section Monitor Point	Y
• ESV	Errored Seconds—VC Path	Y
• etherStatsBroadcastPkts	The total number of good packets received that were directed to a multicast address	Y
• etherStatsCollisions	Number of transmit packets that are collisions	Y
• etherStatsCRCAlignErrors	The total number of packets received that have a length (excluding framing bits, but including FCS octets) of between 64 and 1518 octets	Y
• etherStatsDropEvents	Number of received frames dropped at the port level	Y
• etherStatsFragments	The total number of packets received that were less than 64 octets	Y
• etherStatsJabbers	The total number of packets received that are longer than 1518 octets	Y
• etherStatsOctets	The total number of octets of data	Y
• etherStatsOversizePkts	The total number of packets received that are longer than 1518 octets	Y
• etherStatsPkts	The total number of packets (including bad packets, broadcast packets, and multicast packets) received	Y
• etherStatsUndersizePkts	The total number of packets received that are less than 64 octets	Y
• FCP	Failure Count—Line	Y

Table 17-20 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• FC-PM	OTN—Failure Count—Path Monitor Point	Y
• FC-SM	OTN—Failure Count—Section Monitor Point	Y
• HP-AR	Availability Ratio	Y
• HP-BBE	High-Order Path Background Block Error	Y
• HP-BBER	High-Order Path Background Block Error Ratio	Y
• HP-EB	High-Order Path Errored Block	Y
• HP-ES	High-Order Path Errored Second	Y
• HP-ESA	High-Order Path Errored Seconds–A	Y
• HP-ESB	High-Order Path Errored Seconds–B	Y
• HP-ESR	High-Order Path Errored Second Ratio	Y
• HP-FC	High-Order Path Failure Count	Y
• HP-NP-JC-PDET	High-Order Path Negative Pointer Justification Count, Path Detected	Y
• HP-NP-JC-PGEN	High-Order Path Pointer Justification Count, Path Generated	Y
• HP-OI	Outage Intensity	Y
• HP-PJCDIFF	High-Order Path Pointer Justification Count Difference	Y
• HP-PJCS-PDET	High-Order Path Pointer Justification Count Seconds, Path Detected	Y
• HP-PPJC-PDET	High-Order Path Positive Pointer Justification Count, Path Detected	Y
• HP-PPJC-PGEN	High-Order Path Positive Pointer Justification Count, Path Generated	Y
• HP-SEPI	The number of SEP events in available time	Y
• HP-SES	High-Order Path Severely Errored Seconds	Y
• HP-SESR	High-Order Path Severely Errored Second Ratio	Y
• HP-UAS	High-Order Path Unavailable Seconds	Y
• ifInBroadcastP-kts	Number of broadcast packets received since the last counter reset	Y
• ifInDiscards	The number of inbound packets	Y
• ifInErrorByteP-ktss	Receive Error Byte	Y
• ifInErrors	The number of inbound packets (or transmission units) that contained errors	Y
• ifInFramingEr-rorPkts	Receive Framing Error	Y
• ifInJunkInterP-kts	Receive Interpacket Junk	Y

Table 17-20 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• ifInMulticastP-kts	Number of multicast packets received since the last counter reset	Y
• ifInOctets	Number of bytes transmitted since the last counter reset	Y
• ifInUcastPkts	Number of unicast packets received since the last counter reset	Y
• ifOutBroadcastP-kts	Number of broadcast packets transmitted	Y
• ifOutDiscards	The number of outbound packets	Y
• ifOutErrors	The number of outbound packets (or transmission units) that could not be transmitted because of errors	Y
• ifOutMulticastP-kts	Number of multicast packets transmitted	Y
• ifOutPayload-CrcErrors	Received payload CRC errors	Y
• ifOutUcastPkts	Number of unicast packets transmitted	Y
• IOS	8B10B–Idle Ordered Sets	Y
• IPC	Invalid Packet Count	Y
• LBCL-AVG	Average Laser Bias current in microA	Y
• LBCL-MAX	Maximum Laser Bias current in microA	Y
• LBCL-MIN	Minimum Laser Bias current in microA	Y
• LBCN	Normalized Laser Bias Current for STM1-8	Y
• LBCN-HWT	Laser Bias current	Y
• LBCN-LWT	Laser Bias current	Y
• LOSSL	Loss of Signal Seconds—Line	Y
• LP-BBE	Low-Order Path Background Block Error	Y
• LP-BBER	Low-Order Path Background Block Error Ratio	Y
• LP-EB	Low-Order Path Errored Block	Y
• LP-ES	Low-Order Path Errored Second	Y
• LP-ESA	Low-Order Path Errored Seconds–A	Y
• LP-ESB	Low-Order Path Errored Seconds–B	Y
• LP-ESR	Low-Order Path Errored Second Ratio	Y
• LP-FC	Low-Order Path Failure Count	Y
• LP-NPJC-DET	Low-Order Negative Pointer Justification Count, Detected	Y
• LP-NPJC-GEN	Low-Order Negative Pointer Justification Count, Generated	Y
• LP-PPJC-DET	Low-Order Positive Pointer Justification Count, Detected	Y
• LP-PPJC-GEN	Low-Order positive Pointer Justification Count, Generated	Y
• LP-SEP	A sequence of between 3 to 9 consecutive SES	Y

Table 17-20 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• LP-SEPI	Low-Order Path Severely Errored Period Intensity	Y
• LP-SES	Low-Order Path Severely Errored Seconds	Y
• LP-UAS	Low-Order Path Unavailable Seconds	Y
• MS-PSC	Protection switch count	Y
• MS-PSD	Protection switch duration	Y
• NIOS	8B10B—Non Idle Ordered Sets	Y
• NPJC-PDET	Negative Pointer Justification Count, Path Detected	Y
• NPJC-PGEN	Negative Pointer Justification Count, Path Generated	Y
• OPR-AVG	Average Receive Power in tenths of a microW	Y
• OPR-MAX	Maximum Receive Power in tenths of a microW	Y
• OPR-MIN	Minimum Receive Power in tenths of a microW	Y
• OPRN	Normalized Optical Receive Power for STM1-8	Y
• OPRN-MAX	Maximum value for OPRN	Y
• OPRN-MIN	Minimum value for OPRN	Y
• OPT-AVG	Average Transmit Power in tenths of a microW	Y
• OPT-MAX	Maximum Transmit Power in tenths of a microW	Y
• OPT-MIN	Minimum Transmit Power in tenths of a microW	Y
• OPTN	Normalized value for Optical Power Transmitted for STM1-8 card	Y
• OPTN-MAX	Maximum value for OPTN	Y
• OPTN-MIN	Minimum value for OPTN	Y
• OPWR-AVG	Optical Power—Average Interval Value in tenths of a dBm	Y
• OPWR-MAX	Optical Power—Maximum Interval Value in tenths of a dBm	Y
• OPWR-MIN	Optical Power—Minimum Interval Value in tenths of a dBm	Y
• PPJC-PDET	Positive Pointer Justification Count - Path Detected	Y
• PPJC-PGEN	Positive Pointer Justification Count - Path Generated	Y
• PSC	Protection Switching Count	Y
• PSC-R	Protection Switching Count—Ring	Y
• PSC-S	Protection Switching Count—Span	Y
• PSC-W	Protection Switching Count—Working	Y
• PSD	Protection Switching Duration	Y
• PSD-R	Protection Switching Duration—Ring	Y
• PSD-S	Protection Switching Duration—Span	Y
• PSD-W	Protection Switching Duration—Working	Y
• SASCPP	Severely Errored Framing/AIS Second—CP-Bit Path	Y
• SASP	Severely Errored Framing/AIS Seconds Path	Y

Table 17-20 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
• SEFS	Severely Errored Framing Seconds	Y
• SESCPP	Severely Errored Second—CP-Bit Path	Y
• SESL	Severely Errored Second—Line	Y
• SESP	Severely Errored Second—Path	Y
• SES-PM	OTN—Severely Errored Second—Path	Y
• SESR	Severely Errored Second—Ratio	Y
• SESR-PM	OTN—Severely Errored Second Ratio—Path Monitor Point expressed as one tenth of a percentage	Y
• SESR-SM	OTN—Severely Errored Second Ratio—Section Monitor Point expressed as one tenth of a percentage	Y
• SESS	Severely Errored Second—Section	Y
• SES-SM	OTN—Severely Errored Second—Section Monitor Point	Y
• SESV	Severely Errored Second—VC Path	Y
• UASCPP	Unavailable Second—CP-Bit Path	Y
• UASL	Unavailable Second—Line	Y
• UASP	Unavailable Second—Path	Y
• UAS-PM	OTN—Unavailable Second—Path Monitor Point	Y
• UAS-SM	OTN—Unavailable Second—Section Monitor Point	Y
• UASV	Unavailable Second—VC Path	Y
• UNC-WORDS	FEC—Uncorrectable Words	Y
• VPC	Valid Packet Count	Y
<MONVAL>	The value to which the register identified by MONTYPE is to be initialized to or the measured value of a monitored parameter. The value is in the form of numeric counts or rates. MONVAL is a string.	Y
<VLDTY>	Indicates whether the information for the specified time period was accumulated over the entire time period or some portion thereof. Validity indicator for the reported PM data. The parameter type is VALIDITY, which is the response validity.	Y
• COMPL	Complete response	Y
• PRTL	Partial response	Y
<lSTM>	Location associated with a particular command in reference to the entity identified by the AID. The parameter type is LOCATION, which is the location where the action is to take place.	Y
• FEND	Action occurs on the Far End of the facility.	Y
• NEND	Action occurs on the Near End of the facility.	Y

Table 17-20 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<DIRN>	Direction relative to the entity identified by the AID. Direction of PM relative to the entity identified by the AID. The parameter type is DIRECTION (transmit and receive directions).	Y
• BTH	Both transmit and receive directions	Y
• RCV	Receive direction only	Y
• TRMT	Transmit direction only	Y
<TMPER>	Accumulation time period for performance counters. The parameter type is TMPER, which is the accumulation time period for the performance management center.	Y
• 1-DAY	Performance parameter accumulation interval length; every 24-hours. For SDH PM data only one day of history data is available. For RMON managed PM data, seven days of history data are available.	Y
• 1-HR	Performance parameter accumulation interval length; every 1 hour. This is only applicable to RMON managed PM data. There are 24 hours of history data available.	Y
• 1-MIN	Performance parameter accumulation interval length; every 1 minute. This is only applicable to RMON managed PM data. There are 60 minutes of history available.	Y
• 15-MIN	Performance parameter accumulation interval length; every 15 minutes. There are 32 15-MIN buckets of history data available for this accumulation interval length.	Y
• RAW-DATA	Performance parameter accumulation interval length; starting from the last time the counters were cleared. This is only applicable to RMON managed PMs.	Y
<MONDAT>	The beginning date of the PM or storage register period specified in TMPER. The format is MM-DD. MONDAT is a string.	Y
<MONTM>	The beginning time of day of the PM or storage register period specified in TMPER. The format is HH-MM. MONTM is a string.	Y

17.21 REPT SW

The Report Switch (REPT SW) message reports the autonomous switching of a unit in a duplex equipment pair to the standby state and its mate unit to the active state. An automatic report for the occurrence or clearance of an alarm or event that triggers the switch might be associated with the message.

Usage Guidelines None

Category Protection

Security Retrieve

Output Format

```
   SID DATE TIME
A  ATAG REPT SW
   "<ACTID>,<STDBYID>"
;
```

Output Example

```
   TID-000 1998-06-20 14:30:00
A  100.100 REPT SW
   "SLOT-8,SLOT-10"
;
```

Table 17-21 Parameter Support

Parameter	Description	Cisco ONS 15454 SDH
<ACTID>	Identifies the equipment unit from the "25.13 EQPT" section on page 25-24 that was placed in the active state. Parameter grouping cannot be used with this parameter.	Y
<STDBYID>	Identifies the equipment unit from the "25.13 EQPT" section on page 25-24 that was placed in the standby state. Parameter grouping cannot be used with this parameter.	Y