



REPT Messages

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

17.1 REPT ALM <MOD2ALM>

Report Alarm (1GFC, 1GFICON, 2GFC, 2GFICON, CLNT, DS3I, E1, E100, E1000, E3, E4, FSTE, G1000, GFPOS, GIGE, STM4, STM64, STM1, STM16, OCH, OMS, OTS, POS, STM1E, VC3, VC44C, VC38C, VC464C, VC48C, VC4, VC416C, VC42C, VC43C, UDCDCC, UDCF, VC12, VCG, WLEN)

Usage Guidelines

Reports an alarm condition against a facility 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>],,:[<DESC>],
[<AIDDET>]"
;
```

Output Example

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

Output Parameters

Table 17-1 REPT ALM <MOD2ALM> Output Parameters

Parameter and Values	Description
AID	Access identifier from the “25.1 ALL” section on page 25-1
NTFCNCDE	Two-letter notification code Parameter type is NOTIF_CODE—two-character notification code associated with an autonomous message
<ul style="list-style-type: none"> • CL • CR • MJ • MN • NA • NR 	<p>The condition causing the alarm has cleared</p> <p>A critical alarm</p> <p>A major alarm</p> <p>A minor alarm</p> <p>The condition is not alarmed</p> <p>The alarm is not reported</p>
CONDTYPE	Condition type for an alarm or a reported event Parameter type is CONDITION—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
SRVEFF	The effect on service caused by the standing alarm or condition Parameter type is SERV_EFF—the effect of the alarm on service
<ul style="list-style-type: none"> • NSA • SA 	<p>The condition is non-service affecting</p> <p>The condition is service affecting</p>
OCRDAT	Date. Optional
OCRTM	Time. Optional
DESC	Condition description. Optional
AIDDET	AIDDET uses the same addressing rules as the AID, but specifies AID type and additional details about the entity being managed. Optional Parameter type is EQPT_TYPE—the type of equipment being provisioned into a slot
<ul style="list-style-type: none"> • 32DMX-L • 32WSS-L • AD-1B • AD-1C • AD-2C • AD-4B • AD-4C • AICI • AIP 	<p>32 channels demultiplexer unit for L-Band</p> <p>32 channels wavelength switch selector unit for L-Band</p> <p>Optical Add/Drop Multiplexed (OADM) 1 Band Filter</p> <p>Optical Add/Drop Multiplexed (OADM) 1 Channel Filter</p> <p>Optical Add/Drop Multiplexed (OADM) 2 Channels Filter</p> <p>Optical Add/Drop Multiplexed (OADM) 4 Bands Filter</p> <p>Optical Add/Drop Multiplexed (OADM) 4 Channels Filter</p> <p>The AICI card</p> <p>The Alarm Indicator Panel</p>

Table 17-1 REPT ALM <MOD2ALM> Output Parameters (continued)

Parameter and Values	Description
• ALM-PWR	Alarm Power
• ASAP-4	ASAP Carrier card with four PIM slots
• BP	The backplane of the NE
• CE-100T-8	8-port 100T card
• CE-1000-4	4-port GIGE mapper card
• CRFT-TMG	Craft Timing
• DCC	The Data Communications Channel
• DMX-32	Optical De/Multiplexed (DMX) 32 Channels
• DS3i-N-12	DS3i-N-12 card
• E1	E1 card
• E1-42	42 Port E1 card
• E1000T-2	A 2 port interface card supporting 1000 Base T Ethernet facilities
• E100T-12	A 12 port interface card supporting 100 Base T Ethernet facilities
• E100T-4	A four port interface card supporting 100 Base T Ethernet facilities
• E1N	E1N card
• E3	E3 card
• FILLER_CARD	Filler card
• FMEC-SMZ-E1	FMEC card corresponding to E1 card
• FMEC-SMZ-E3	FMEC card corresponding to E3 card
• FTA	The Fan Tray of the NE
• FTA1	The Fan Tray 1 of the NE
• FTA2	The Fan Tray 2 of the NE
• G1K-4	The G1K-4 card
• MD-4	Optical Multiplexer/Demultiplexer with 4 Channels
• ML100X-8	8-port 100T card with optical interface
• MMU	Multiring mesh upgrade unit
• MS-ISC-100T	Fast Ethernet switch card used for internal shelf connection
• MUX-32	Optical Multiplexed (MUX) 32 Channels
• MXP-2.5G-10G	10G (4 * 2.5G) Muxponder card
• MXP-MR-10DME	10 Gbps datamux with enhanced FEC
• OPT-AMP-L	Optical preamplifier unit for L-Band
• OPT-BST	Optical booster amplifier
• OPT-BST-L	Optical booster unit for L-Band
• OPT-PRE	Optical Pre-Amplifier
• OSC-CSM	Optical Service Channel (OSC) with Combiner/Separator Module (SCM)

Table 17-1 REPT ALM <MOD2ALM> Output Parameters (continued)

Parameter and Values	Description
• OSCM	Optical Service Channel (OSC) Module
• PIM-4	Pluggable interface module with 4 PPM slots
• PPM-1	Pluggable port module with 1 port SFP module
• SHELF	Shelf entity
• STM4	An interface card that supports one or more STM4 (622Mbs) optical facilities
• STM4-4	A four port STM4 card
• STM4-IR-1	An interface card that supports one intermediate range STM4 (622Mbs) optical facilities
• STM4-LR-1	An interface card that supports one long range STM4 (622Mbs) optical facilities
• STM4-SR-1	An interface card that supports one short range STM4 (622Mbs) optical facilities
• STM64-4	A four port STM64 card
• STM64-LR-1	An interface card that supports one or more STM64 optical facilities
• STM1	An interface card that supports multiple STM1 (155Mbs) optical facilities
• STM1-IR-4	An interface card that supports four intermediate range STM1 (155Mbs) optical facilities
• STM1-SR-4	An interface card that supports four short range STM1 (155Mbs) optical facilities
• STM1ATM-IR-6	An interface card that supports six intermediate range STM1 (155Mbs) ATM optical fibers
• 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/192
• STM1POS-SR-4	An interface card that supports four short range STM1 (155Mbs) POS optical facilities
• STM16	An interface card that supports one or more STM16 (10Gbs) optical facilities
• STM16-AS-1	An interface card that supports one short range OC-48 (10Gbs) optical facilities that can be provisioned in any I/O slot
• STM16-ELR-1	An interface card that supports one short range STM16 (2.5Gbs) optical facility
• STM16-IR-1	An interface card that supports one intermediate range STM16 (10Gbs) optical facility
• STM16-LR-1	An interface card that supports one long range STM16 (10Gbs) optical facility
• STM16-SR-1	An interface card that supports one short range STM16 (10Gbs) optical facilities
• TCC	The Timing Communication and Control card

Table 17-1 REPT ALM <MOD2ALM> Output Parameters (continued)

Parameter and Values	Description
• TXP-MR-10G	10G Multirate Transponder card
• TXP-MR-2.5G	Multirate 2.5G Unprotected
• TXPP-MR-2.5G	Multirate 2.5G Protected
• UNKNOWN	Unknown equipment type
• UNPROVISIONED	Unprovisioned equipment type
• XC-VXC-10G	XC-VXC-10G cross-connect card
• XCVXL-10G	XCVXL-10G cross-connect card
• XCVXL-2.5G	XCVXL-2.5G cross-connect card

17.2 REPT ALM BITS

Report Alarm Building Integrated Timing Supply

Usage Guidelines Reports an alarm condition on a BITS facility.

Category Synchronization

Security Retrieve

Output Format SID DATE TIME
 ** ATAG REPT ALM BITS
 “<AID>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>],,:[<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\””
 ;

Output Parameters

Table 17-2 REPT ALM BITS Output Parameters

Parameter and Values	Description
AID	Access identifier from the “25.1.5 BITS” section on page 25-10
NTFCNCDE	Two-letter notification code Parameter type is NOTIF_CODE—two-character notification code associated with an autonomous message
<ul style="list-style-type: none"> • CL • CR • MJ • MN • NA • NR 	<p>The condition causing the alarm has cleared</p> <p>A critical alarm</p> <p>A major alarm</p> <p>A minor alarm</p> <p>The condition is not alarmed</p> <p>The alarm is not reported</p>
CONDTYPE	Condition type for an alarm or a reported event Parameter type is CONDITION—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
SRVEFF	The effect on service caused by the standing alarm or condition Parameter type is SERV_EFF—the effect of the alarm on service
<ul style="list-style-type: none"> • NSA • SA 	<p>The condition is non-service affecting</p> <p>The condition is service affecting</p>
OCRDAT	Date. Optional
OCRTM	Time. Optional
DESC	Condition description. Optional

17.3 REPT ALM COM

Report Alarm Common

Usage Guidelines

Reports an alarm condition when an AID cannot be given, for example, a fan failure is reported using this message.

Category

Fault

Security

Retrieve

Output Format

```
SID DATE TIME
** ATAG REPT ALM COM
“[<AID>]:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,[<OCRDAT>],[<OCRTM>],,:[<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\””
;
```

Output Parameters**Table 17-3 REPT ALM COM Output Parameters**

Parameter and Values	Description
AID	Access identifier. Identifies the entity to which the command pertains. Indicates an alarm without AID. String. Optional
NTFCNCDE	Two-letter notification code Parameter type is NOTIF_CODE—two-character notification code associated with an autonomous message
<ul style="list-style-type: none"> CL 	The condition causing the alarm has cleared
<ul style="list-style-type: none"> CR 	A critical alarm
<ul style="list-style-type: none"> MJ 	A major alarm
<ul style="list-style-type: none"> MN 	A minor alarm
<ul style="list-style-type: none"> NA 	The condition is not alarmed
<ul style="list-style-type: none"> NR 	The alarm is not reported
CONDTYPE	Condition type for an alarm or a reported event Parameter type is CONDITION—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-Alerted conditions (NA), and Not-Reported (NR) conditions. See the Table 26-1 on page 26-1 for a list of conditions
SRVEFF	The effect on service caused by the standing alarm or condition Parameter type is SERV_EFF—the effect of the alarm on service
<ul style="list-style-type: none"> NSA 	The condition is non-service affecting
<ul style="list-style-type: none"> SA 	The condition is service affecting
OCRDAT	Date. Optional
OCRTM	Time. Optional
DESC	Condition description. Optional

17.4 REPT ALM ENV

Report Alarm Environment

Usage Guidelines Reports a customer-defined condition on an environmental alarm input.

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\""
```

Output Parameters

Table 17-4 REPT ALM ENV Output Parameters

Parameter and Values	Description
AID	Access identifier from the “25.1.10 ENV” section on page 25-15 . Identifies an environmental input
NTFCNCDE	Two-letter notification code Parameter type is NOTIF_CODE—two-character notification code associated with an autonomous message
<ul style="list-style-type: none"> • CL • CR • MJ • MN • NA • NR 	<ul style="list-style-type: none"> The condition causing the alarm has cleared A critical alarm A major alarm A minor alarm The condition is not alarmed The alarm is not reported
ALMTYPE	Abbreviated code identifying the alarm Parameter type is ENV_ALM—environmental alarm types
<ul style="list-style-type: none"> • AIRCOMPR 	Air compressor failure

Table 17-4 REPT ALM ENV Output Parameters (continued)

Parameter and Values	Description
• AIRCOND	Air conditioning failure
• AIRDRYR	Air dryer failure
• BATDSCHRG	Battery discharging
• BATTERY	Battery failure
• CLFAN	Cooling fan failure
• CPMAJOR	Centralized power major failure
• CPMINOR	Centralized power minor failure
• ENGINE	Engine failure
• ENGOPRG	Engine operating
• ENGTRANS	Standby engine transfer
• EXPLGS	Explosive gas
• FIRDETR	Fire detector failure
• FIRE	Fire
• FLOOD	Flood
• FUELLEAK	Fuel leak
• FUSE	Fuse failure
• GASALARM	Explosive gas, toxic gas, ventilation fail or gas monitor fail
• HATCH	CEV hatch fail
• GEN	Generator failure
• HIAIR	High airflow
• HIHUM	High humidity
• HITEMP	High temperature
• HIWTR	High water
• INTRUDER	Intrusion
• LEVELCON	Level converter
• LVDADSL	Secondary ADSL low voltage disconnect
• LVDBYPAS	Low voltage disconnected bypass
• LWBATVG	Low battery voltage
• LWFUEL	Low fuel
• LWHUM	Low humidity
• LWPRES	Low cable pressure
• LWTEMP	Low temperature
• LWWTR	Low water
• MISC	Miscellaneous
• OPENDR	Open door
• POWER	Commercial power failure

Table 17-4 REPT ALM ENV Output Parameters (continued)

Parameter and Values	Description
• PUMP	Pump failure
• PWR-48	48V power supply failure
• PWR-139	-139V power converter
• PWR-190	-190V power converter
• PWRMJ	Power supply major
• PWRMN	Power supply minor
• RECT	Rectifier failure
• RECTHI	Rectifier high voltage
• RECTLO	Rectifier low voltage
• RINGGENMJ	Ring generator major
• RINGGENMN	Ring generator minor
• RTACADSL	AC or AC/rectifier power fail ADSL equipment
• RTACCRIT	AC or AC/rectifier power fail DCL equipment critical site
• RTACPWR	AC or AC/rectifier power fail DCL equipment
• RTACPWRENG	Commercial AC fail, site equipped with standby engine
• RTBAYPWR	AC power loss distributed power RT bay
• RTRVENG	Retrieve standby engine, commercial AC restored
• SMOKE	Smoke
• TEMP	High-low temperature
• TOXICGAS	Toxic gas
• TREPEATER	T-repeater shelf
• VENTN	Ventilation system failure
OCRDAT	Date. Optional
OCRTM	Time. Optional
DESC	Condition description. Optional

17.5 REPT ALM EQPT

Report Alarm Equipment

Usage Guidelines

Reports an alarm condition against an equipment unit or slot.

Category

Equipment

Security Retrieve

Output Format

```
SID DATE TIME
** ATAG REPT ALM EQPT
"<AID>:<NTFCNCDE>,<CONDITION>,<SRVEFF>,<OCRDAT>,<OCRTM>,<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"
;
```

Output Parameters

Table 17-5 REPT ALM EQPT Output Parameters

Parameter and Values	Description
AID	Access identifier from the “25.1.11 EQPT” section on page 25-16. Equipment AID SLOT- {1-17}
NTFCNCDE	Two-letter notification code Parameter type is NOTIF_CODE—two-character notification code associated with an autonomous message
<ul style="list-style-type: none"> • CL • CR • MJ • MN • NA • NR 	<ul style="list-style-type: none"> The condition causing the alarm has cleared A critical alarm A major alarm A minor alarm The condition is not alarmed The alarm is not reported
CONDITION	Condition type for an alarm or a reported event Parameter type is CONDITION—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-Alerted conditions (NA), and Not-Reported (NR) conditions. See the Table 26-1 on page 26-1 for a list of conditions
SRVEFF	The effect on service caused by the standing alarm or condition Parameter type is SERV_EFF—the effect of the alarm on service
<ul style="list-style-type: none"> • NSA • SA 	<ul style="list-style-type: none"> The condition is non-service affecting The condition is service affecting
OCRDAT	Date. Optional
OCRTM	Time. Optional

Table 17-5 REPT ALM EQPT Output Parameters (continued)

Parameter and Values	Description
DESC	Condition description. Optional
AIDDET	AIDDET uses the same addressing rules as the AID, but specifies AID type and additional details about the entity being managed. Optional Parameter type is EQPT_TYPE—the type of equipment being provisioned into a slot
• 32DMX-L	32 channels demultiplexer unit for L-Band
• 32WSS-L	32 channels wavelength switch selector unit for L-Band
• AD-1B	Optical Add/Drop Multiplexed (OADM) 1 Band Filter
• AD-1C	Optical Add/Drop Multiplexed (OADM) 1 Channel Filter
• AD-2C	Optical Add/Drop Multiplexed (OADM) 2 Channels Filter
• AD-4B	Optical Add/Drop Multiplexed (OADM) 4 Bands Filter
• AD-4C	Optical Add/Drop Multiplexed (OADM) 4 Channels Filter
• AICI	The AICI card
• AIP	The Alarm Indicator Panel
• ALM-PWR	Alarm Power
• ASAP-4	ASAP Carrier card with four PIM slots
• BP	The backplane of the NE
• CE-100T-8	8-port 100T card
• CE-1000-4	4-port GIGE mapper card
• CRFT-TMG	Craft Timing
• DCC	The Data Communications Channel
• DMX-32	Optical De/Multiplexed (DMX) 32 Channels
• DS3i-N-12	DS3i-N-12 card
• E1	E1 card
• E1-42	42 Port E1 card
• E1000T-2	A 2 port interface card supporting 1000 Base T Ethernet facilities
• E100T-12	A 12 port interface card supporting 100 Base T Ethernet facilities
• E100T-4	A four port interface card supporting 100 Base T Ethernet facilities
• E1N	E1N card
• E3	E3 card
• FILLER_CARD	Filler card
• FMEC-SMZ-E1	FMEC card corresponding to E1 card
• FMEC-SMZ-E3	FMEC card corresponding to E3 card
• FTA	The Fan Tray of the NE
• FTA1	The Fan Tray 1 of the NE
• FTA2	The Fan Tray 2 of the NE

Table 17-5 REPT ALM EQPT Output Parameters (continued)

Parameter and Values	Description
• G1K-4	The G1K-4 card
• MD-4	Optical Multiplexer/Demultiplexer with 4 Channels
• ML100X-8	8-port 100T card with optical interface
• MMU	Multiring mesh upgrade unit
• MS-ISC-100T	Fast Ethernet switch card used for internal shelf connection
• MUX-32	Optical Multiplexed (MUX) 32 Channels
• MXP-2.5G-10G	10G (4 * 2.5G) Muxponder card
• MXP-MR-10DME	10 Gbps datamux with enhanced FEC
• OPT-AMP-L	Optical preamplifier unit for L-Band
• OPT-BST	Optical booster amplifier
• OPT-BST-L	Optical booster unit for L-Band
• OPT-PRE	Optical Pre-Amplifier
• OSC-CSM	Optical Service Channel (OSC) with Combiner/Separator Module (SCM)
• OSCM	Optical Service Channel (OSC) Module
• PIM-4	Pluggable interface module with 4 PPM slots
• PPM-1	Pluggable port module with 1 port SFP module
• SHELF	Shelf entity
• STM4	An interface card that supports one or more STM4 (622Mbs) optical facilities
• STM4-4	A four port STM4 card
• STM4-IR-1	An interface card that supports one intermediate range STM4 (622Mbs) optical facilities
• STM4-LR-1	An interface card that supports one long range STM4 (622Mbs) optical facilities
• STM4-SR-1	An interface card that supports one short range STM4 (622Mbs) optical facilities
• STM64-4	A four port STM64 card
• STM64-LR-1	An interface card that supports one or more STM64 optical facilities
• STM1	An interface card that supports multiple STM1 (155Mbs) optical facilities
• STM1-IR-4	An interface card that supports four intermediate range STM1 (155Mbs) optical facilities
• STM1-SR-4	An interface card that supports four short range STM1 (155Mbs) optical facilities
• STM1ATM-IR-6	An interface card that supports six intermediate range STM1 (155Mbs) ATM optical fibers
• 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/192

Table 17-5 REPT ALM EQPT Output Parameters (continued)

Parameter and Values	Description
• STM1POS-SR-4	An interface card that supports four short range STM1 (155Mbps) POS optical facilities
• STM16	An interface card that supports one or more STM16 (10Gbs) optical facilities
• STM16-AS-1	An interface card that supports one short range OC-48 (10Gbs) optical facilities that can be provisioned in any I/O slot
• STM16-ELR-1	An interface card that supports one short range STM16 (2.5Gbs) optical facility
• STM16-IR-1	An interface card that supports one intermediate range STM16 (10Gbs) optical facility
• STM16-LR-1	An interface card that supports one long range STM16 (10Gbs) optical facility
• STM16-SR-1	An interface card that supports one short range STM16 (10Gbs) optical facilities
• TCC	The Timing Communication and Control card
• TXP-MR-10G	10G Multirate Transponder card
• TXP-MR-2.5G	Multirate 2.5G Unprotected
• TXPP-MR-2.5G	Multirate 2.5G Protected
• UNKNOWN	Unknown equipment type
• UNPROVISIONED	Unprovisioned equipment type
• XC-VXC-10G	XC-VXC-10G cross-connect card
• XCVXL-10G	XCVXL-10G cross-connect card
• XCVXL-2.5G	XCVXL-2.5G cross-connect card

17.6 REPT ALM SECU

Report Alarm Security

Usage Guidelines

Reports the occurrence of an alarmed security event against the NE.

Based on 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"
;
```

Output Parameters

Table 17-6 REPT ALM SECU Output Parameters

Parameter and Values	Description
AID	Access identifier. Identifies an entity with the condition. Defaults to COM. String
NOTIFCODE	Two-letter notification code Parameter type is NOTIF_CODE—two-character notification code associated with an autonomous message
<ul style="list-style-type: none"> CL 	The condition causing the alarm has cleared
<ul style="list-style-type: none"> CR 	A critical alarm
<ul style="list-style-type: none"> MJ 	A major alarm
<ul style="list-style-type: none"> MN 	A minor alarm
<ul style="list-style-type: none"> NA 	The condition is not alarmed
<ul style="list-style-type: none"> NR 	The alarm is not reported
SECUALMTYPE	Security alarm type. It is a subset of the CONDITION type. In this release, the only allowable type is INTRUSION-PSWD Parameter type is SECUALMTYPE—security alarm type
<ul style="list-style-type: none"> INTRUSION-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

17.7 REPT ALM SYNCN

Report Alarm Synchronization

Usage Guidelines Reports an alarm condition against a synchronization reference.

Category Synchronization

Security Retrieve

Output Format

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

Output Parameters

Table 17-7 REPT ALM SYNCN Output Parameters

Parameter and Values	Description
AID	Access identifier from the “25.1.25 SYNC_REF” section on page 25-24 . Identifies a synchronization reference with alarm condition
NTFCNCDE	Two-letter notification code Parameter type is NOTIF_CODE—two-character notification code associated with an autonomous message
• CL	The condition causing the alarm has cleared
• CR	A critical alarm
• MJ	A major alarm
• MN	A minor alarm
• NA	The condition is not alarmed
• NR	The alarm is not reported
CONDTYPE	Condition type for an alarm or a reported event Parameter type is CONDITION—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

Table 17-7 REPT ALM SYNCN Output Parameters (continued)

Parameter and Values	Description
SRVEFF	The effect on service caused by the standing alarm or condition Parameter type is SERV_EFF—the effect of the alarm on service
• NSA	The condition is non-service affecting
• SA	The condition is service affecting
OCRDAT	Date. Optional
OCRTM	Time. Optional
DESC	Condition description. Optional
EQPTTYPE	Optional Parameter type is EQPT_TYPE—the type of equipment being provisioned into a slot
• 32DMX-L	32 channels demultiplexer unit for L-Band
• 32WSS-L	32 channels wavelength switch selector unit for L-Band
• AD-1B	Optical Add/Drop Multiplexed (OADM) 1 Band Filter
• AD-1C	Optical Add/Drop Multiplexed (OADM) 1 Channel Filter
• AD-2C	Optical Add/Drop Multiplexed (OADM) 2 Channels Filter
• AD-4B	Optical Add/Drop Multiplexed (OADM) 4 Bands Filter
• AD-4C	Optical Add/Drop Multiplexed (OADM) 4 Channels Filter
• AICI	The AICI card
• AIP	The Alarm Indicator Panel
• ALM-PWR	Alarm Power
• ASAP-4	ASAP Carrier card with four PIM slots
• BP	The backplane of the NE
• CE-100T-8	8-port 100T card
• CE-1000-4	4-port GIGE mapper card
• CRFT-TMG	Craft Timing
• DCC	The Data Communications Channel
• DMX-32	Optical De/Multiplexed (DMX) 32 Channels
• DS3i-N-12	DS3i-N-12 card
• E1	E1 card
• E1-42	42 Port E1 card
• E1000T-2	A 2 port interface card supporting 1000 Base T Ethernet facilities
• E100T-12	A 12 port interface card supporting 100 Base T Ethernet facilities
• E100T-4	A four port interface card supporting 100 Base T Ethernet facilities
• E1N	E1N card
• E3	E3 card
• FILLER_CARD	Filler card

Table 17-7 REPT ALM SYNCN Output Parameters (continued)

Parameter and Values	Description
• FMEC-SMZ-E1	FMEC card corresponding to E1 card
• FMEC-SMZ-E3	FMEC card corresponding to E3 card
• FTA	The Fan Tray of the NE
• FTA1	The Fan Tray 1 of the NE
• FTA2	The Fan Tray 2 of the NE
• G1K-4	The G1K-4 card
• MD-4	Optical Multiplexer/Demultiplexer with 4 Channels
• ML100X-8	8-port 100T card with optical interface
• MMU	Multiring mesh upgrade unit
• MS-ISC-100T	Fast Ethernet switch card used for internal shelf connection
• MUX-32	Optical Multiplexed (MUX) 32 Channels
• MXP-2.5G-10G	10G (4 * 2.5G) Muxponder card
• MXP-MR-10DME	10 Gbps datamux with enhanced FEC
• OPT-AMP-L	Optical preamplifier unit for L-Band
• OPT-BST	Optical booster amplifier
• OPT-BST-L	Optical booster unit for L-Band
• OPT-PRE	Optical Pre-Amplifier
• OSC-CSM	Optical Service Channel (OSC) with Combiner/Separator Module (SCM)
• OSCM	Optical Service Channel (OSC) Module
• PIM-4	Pluggable interface module with 4 PPM slots
• PPM-1	Pluggable port module with 1 port SFP module
• SHELF	Shelf entity
• STM4	An interface card that supports one or more STM4 (622Mbs) optical facilities
• STM4-4	A four port STM4 card
• STM4-IR-1	An interface card that supports one intermediate range STM4 (622Mbs) optical facilities
• STM4-LR-1	An interface card that supports one long range STM4 (622Mbs) optical facilities
• STM4-SR-1	An interface card that supports one short range STM4 (622Mbs) optical facilities
• STM64-4	A four port STM64 card
• STM64-LR-1	An interface card that supports one or more STM64 optical facilities
• STM1	An interface card that supports multiple STM1 (155Mbs) optical facilities
• STM1-IR-4	An interface card that supports four intermediate range STM1 (155Mbs) optical facilities

Table 17-7 REPT ALM SYNCN Output Parameters (continued)

Parameter and Values	Description
• STM1-SR-4	An interface card that supports four short range STM1 (155Mbs) optical facilities
• STM1ATM-IR-6	An interface card that supports six intermediate range STM1 (155Mbs) ATM optical fibers
• 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/192
• STM1POS-SR-4	An interface card that supports four short range STM1 (155Mbs) POS optical facilities
• STM16	An interface card that supports one or more STM16 (10Gbs) optical facilities
• STM16-AS-1	An interface card that supports one short range OC-48 (10Gbs) optical facilities that can be provisioned in any I/O slot
• STM16-ELR-1	An interface card that supports one short range STM16 (2.5Gbs) optical facility
• STM16-IR-1	An interface card that supports one intermediate range STM16 (10Gbs) optical facility
• STM16-LR-1	An interface card that supports one long range STM16 (10Gbs) optical facility
• STM16-SR-1	An interface card that supports one short range STM16 (10Gbs) optical facilities
• TCC	The Timing Communication and Control card
• TXP-MR-10G	10G Multirate Transponder card
• TXP-MR-2.5G	Multirate 2.5G Unprotected
• TXPP-MR-2.5G	Multirate 2.5G Protected
• UNKNOWN	Unknown equipment type
• UNPROVISIONED	Unprovisioned equipment type
• XC-VXC-10G	XC-VXC-10G cross-connect card
• XCVXL-10G	XCVXL-10G cross-connect card
• XCVXL-2.5G	XCVXL-2.5G cross-connect card

17.8 REPT DBCHG

Report Database Change Message

Usage Guidelines

Reports any changes on the NE that result from:

1. TL1 provisioning commands or their GUI equivalents containing the verbs: ALW, DLT, ED, ENT, INH, INIT, OPR, RLS, SET, and SW (for example, DLT-EQPT, ENT-CRS-VC3).
2. 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.

**Note**

- 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-VC11:VC11-4-1-2-6-4:::PST-PSTQ,SST"
;
```

Output Parameters**Table 17-8 REPT DBCHG Output Parameters**

Parameter and Values	Description
TIME	The time of the message triggered by the NE
DATE	The date of the message triggered by the NE
SOURCE	An input-command CTAG if present. String. Optional
USERID	The user name or user identifier. String. Optional
DBCHGSEQ	Identifier or range of identifiers to be retrieved. It is a sequential number of the DBCHGSEQ message. Integer

Table 17-8 REPT DBCHG Output Parameters (continued)

Parameter and Values	Description
COMMAND	The input command or substitute. String
AID	Access identifier. String
PSTPSTQ	Admin state in the PST-PSTQ format Parameter type is PST_PSTQ—service state of the entity described by the primary state (SST) and a primary state qualifier (PSTQ)
• Unlocked-Enabled	In service - normal
• Locked-Disabled	Out of service - autonomous
• Locked-Disabled	Out of service - autonomous and management
• Locked-Enabled	Out of service - management
SST	Secondary state Parameter type is SST—provides additional information pertaining to PST and PSTQ
• AutomaticInService	Automatic in service
• Disabled	Disabled
• Loopback	Loopback
• MismatchofEquipmentAlarm	Mismatch of equipment and attributes
• Maintenance	Maintenance mode
• OutOfGroup	Out of group
• SoftwareDownload	Software downloading
• Unassigned	Unassigned
• NotInstalled	Unequipped

17.9 REPT EVT <MOD2ALM>

Report Event (1GFC, 1GFICON, 2GFC, 2GFICON, CLNT, DS3I, E1, E100, E1000, E3, E4, FSTE, G1000, GFPOS, GIGE, STM4, STM64, STM1, STM16, OCH, OMS, OTS, POS, STM1E, VC3, VC44C, VC38C, VC464C, VC48C, VC4, VC416C, VC42C, VC43C, UDCC, UDCF, VC12, VCG, WLEN)

Usage Guidelines

Reports the occurrence of a non-alarmed event. Beginning with this release, REPT EVT <MOD2ALM> can report the RMON-managed threshold crossing alarm.

See [Table 27-1 on page 27-1](#) for supported modifiers by platform.

Category

Fault

Security

Retrieve

Output Format

```

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

```

Output Example

```

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

```

Output Parameters**Table 17-9 REPT EVT <MOD2ALM> Output Parameters**

Parameter and Values	Description
AID	Access identifier from the “25.1 ALL” section on page 25-1
CONDTYPE	Condition type for an alarm or a reported event Parameter type is CONDITION—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
CONDEFF	The effect of the event on the condition of the NE Parameter type is COND_EFF—the state of the condition upon the affected unit
<ul style="list-style-type: none"> • CL 	Standing condition cleared
<ul style="list-style-type: none"> • SC 	Standing condition raised
<ul style="list-style-type: none"> • TC 	Transient condition
LOCN	Location associated with a particular command in reference to the entity identified by the AID Parameter type is LOCATION—the location where the action is to take place
<ul style="list-style-type: none"> • FEND 	Action occurs on the Far End of the facility
<ul style="list-style-type: none"> • NEND 	Action occurs on the Near End of the facility
MONVAL	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. Float. Optional
THLEV	Threshold level. Float. Optional

Table 17-9 REPT EVT <MOD2ALM> Output Parameters (continued)

Parameter and Values	Description
TMPER	Accumulation time period for performance counters. Optional Parameter type is TMPER—accumulation time period for the performance management center
• 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
• 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
• 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
• 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
• RAW-DATA	Performance parameter accumulation interval length; starting from the last time the counters were cleared. This is only applicable to RMON managed PMs
DESC	Condition description. Optional
AIDDET	AIDDET uses the same addressing rules as the AID, but specifies AID type and additional details about the entity being managed. Optional Parameter type is EQPT_TYPE—the type of equipment being provisioned into a slot
• 32DMX-L	32 channels demultiplexer unit for L-Band
• 32WSS-L	32 channels wavelength switch selector unit for L-Band
• AD-1B	Optical Add/Drop Multiplexed (OADM) 1 Band Filter
• AD-1C	Optical Add/Drop Multiplexed (OADM) 1 Channel Filter
• AD-2C	Optical Add/Drop Multiplexed (OADM) 2 Channels Filter
• AD-4B	Optical Add/Drop Multiplexed (OADM) 4 Bands Filter
• AD-4C	Optical Add/Drop Multiplexed (OADM) 4 Channels Filter
• AICI	The AICI card
• AIP	The Alarm Indicator Panel
• ALM-PWR	Alarm Power
• ASAP-4	ASAP Carrier card with four PIM slots
• BP	The backplane of the NE
• CE-100T-8	8-port 100T card
• CE-1000-4	4-port GIGE mapper card
• CRFT-TMG	Craft Timing

Table 17-9 REPT EVT <MOD2ALM> Output Parameters (continued)

Parameter and Values	Description
• DCC	The Data Communications Channel
• DMX-32	Optical De/Multiplexed (DMX) 32 Channels
• DS3i-N-12	DS3i-N-12 card
• E1	E1 card
• E1-42	42 Port E1 card
• E100T-2	A 2 port interface card supporting 1000 Base T Ethernet facilities
• E100T-12	A 12 port interface card supporting 100 Base T Ethernet facilities
• E100T-4	A four port interface card supporting 100 Base T Ethernet facilities
• E1N	E1N card
• E3	E3 card
• FILLER_CARD	Filler card
• FMEC-SMZ-E1	FMEC card corresponding to E1 card
• FMEC-SMZ-E3	FMEC card corresponding to E3 card
• FTA	The Fan Tray of the NE
• FTA1	The Fan Tray 1 of the NE
• FTA2	The Fan Tray 2 of the NE
• G1K-4	The G1K-4 card
• MD-4	Optical Multiplexer/Demultiplexer with 4 Channels
• ML100X-8	8-port 100T card with optical interface
• MMU	Multiring mesh upgrade unit
• MS-ISC-100T	Fast Ethernet switch card used for internal shelf connection
• MUX-32	Optical Multiplexed (MUX) 32 Channels
• MXP-2.5G-10G	10G (4 * 2.5G) Muxponder card
• MXP-MR-10DME	10 Gbps datamux with enhanced FEC
• OPT-AMP-L	Optical preamplifier unit for L-Band
• OPT-BST	Optical booster amplifier
• OPT-BST-L	Optical booster unit for L-Band
• OPT-PRE	Optical Pre-Amplifier
• OSC-CSM	Optical Service Channel (OSC) with Combiner/Separator Module (SCM)
• OSCM	Optical Service Channel (OSC) Module
• PIM-4	Pluggable interface module with 4 PPM slots
• PPM-1	Pluggable port module with 1 port SFP module
• SHELF	Shelf entity
• STM4	An interface card that supports one or more STM4 (622Mbs) optical facilities
• STM4-4	A four port STM4 card

Table 17-9 REPT EVT <MOD2ALM> Output Parameters (continued)

Parameter and Values	Description
• STM4-IR-1	An interface card that supports one intermediate range STM4 (622Mbps) optical facilities
• STM4-LR-1	An interface card that supports one long range STM4 (622Mbps) optical facilities
• STM4-SR-1	An interface card that supports one short range STM4 (622Mbps) optical facilities
• STM64-4	A four port STM64 card
• STM64-LR-1	An interface card that supports one or more STM64 optical facilities
• STM1	An interface card that supports multiple STM1 (155Mbps) optical facilities
• STM1-IR-4	An interface card that supports four intermediate range STM1 (155Mbps) optical facilities
• STM1-SR-4	An interface card that supports four short range STM1 (155Mbps) optical facilities
• STM1ATM-IR-6	An interface card that supports six intermediate range STM1 (155Mbps) ATM optical fibers
• 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/192
• STM1POS-SR-4	An interface card that supports four short range STM1 (155Mbps) POS optical facilities
• STM16	An interface card that supports one or more STM16 (10Gbs) optical facilities
• STM16-AS-1	An interface card that supports one short range OC-48 (10Gbs) optical facilities that can be provisioned in any I/O slot
• STM16-ELR-1	An interface card that supports one short range STM16 (2.5Gbs) optical facility
• STM16-IR-1	An interface card that supports one intermediate range STM16 (10Gbs) optical facility
• STM16-LR-1	An interface card that supports one long range STM16 (10Gbs) optical facility
• STM16-SR-1	An interface card that supports one short range STM16 (10Gbs) optical facilities
• TCC	The Timing Communication and Control card
• TXP-MR-10G	10G Multirate Transponder card
• TXP-MR-2.5G	Multirate 2.5G Unprotected
• TXPP-MR-2.5G	Multirate 2.5G Protected
• UNKNOWN	Unknown equipment type
• UNPROVISIONED	Unprovisioned equipment type
• XC-VXC-10G	XC-VXC-10G cross-connect card

Table 17-9 REPT EVT <MOD2ALM> Output Parameters (continued)

Parameter and Values	Description
• XCVXL-10G	XCVXL-10G cross-connect card
• XCVXL-2.5G	XCVXL-2.5G cross-connect card

17.10 REPT EVT BITS

Report Event Building Integrated Timing Supply

Usage Guidelines

Reports a non-alarmed event against a BITS facility.

Category

Synchronization

Security

Retrieve

Output Format

```
SID DATE TIME
** ATAG REPT EVT BITS
"<AID>:<CONDTYPE>,<CONDEFF>],,,,,,:[<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\”"
;
```

Output Parameters

Table 17-10 REPT EVT BITS Output Parameters

Parameter and Values	Description
AID	Access identifier from the “25.1.5 BITS” section on page 25-10
CONDTYPE	Condition type for an alarm or a reported event Parameter type is CONDITION—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

Table 17-10 REPT EVT BITS Output Parameters (continued)

Parameter and Values	Description
CONDEFF	The effect of the event on the condition of the NE Parameter type is COND_EFF—the state of the condition upon the affected unit
<ul style="list-style-type: none"> • CL 	Standing condition cleared
<ul style="list-style-type: none"> • SC 	Standing condition raised
<ul style="list-style-type: none"> • TC 	Transient condition
DESC	Condition description. Optional

17.11 REPT EVT COM

Report Event Common

Usage Guidelines Reports a non-alarmed event against an NE when there is no AID associated with it.

Category Fault

Security Retrieve

Output Format

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

Output Example

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

Output Parameters

Table 17-11 REPT EVT COM Output Parameters

Parameter and Values	Description
AID	Access identifier. Identifies the entity to which the command pertains. String. Optional
CONDTYPE	Condition type for an alarm or a reported event Parameter type is CONDITION—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
CONDEFF	The effect of the event on the condition of the NE Parameter type is COND_EFF—the state of the condition upon the affected unit
• CL	Standing condition cleared
• SC	Standing condition raised
• TC	Transient condition
DESC	Condition description. Optional

17.12 REPT EVT ENV

Report Event Environment

Usage Guidelines

Reports the occurrence of a non-alarmed event against an environment alarm input.

Category

Environment

Security

Retrieve

Output Format

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

Output Example

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

Output Parameters

Table 17-12 REPT EVT ENV Output Parameters

Parameter and Values	Description
AID	Access identifier from the “25.1.10 ENV” section on page 25-15. Identifies an environmental input
ALMTYPE	Abbreviated code identifying the alarm Parameter type is ENV_ALM—environmental alarm types
• AIRCOMPR	Air compressor failure
• AIRCOND	Air conditioning failure
• AIRDRYR	Air dryer failure
• BATDSCHRG	Battery discharging
• BATTERY	Battery failure
• CLFAN	Cooling fan failure
• CPMAJOR	Centralized power major failure
• CPMINOR	Centralized power minor failure
• ENGINE	Engine failure
• ENGOPRG	Engine operating
• ENGTRANS	Standby engine transfer
• EXPLGS	Explosive gas
• FIRDETR	Fire detector failure
• FIRE	Fire
• FLOOD	Flood
• FUELLEAK	Fuel leak
• FUSE	Fuse failure
• GASALARM	Explosive gas, toxic gas, ventilation fail or gas monitor fail
• HATCH	CEV hatch fail
• GEN	Generator failure
• HIAIR	High airflow
• HIHUM	High humidity
• HITEMP	High temperature
• HIWTR	High water
• INTRUDER	Intrusion
• LEVELCON	Level converter
• LVDADSL	Secondary ADSL low voltage disconnect
• LVDBYPAS	Low voltage disconnect bypass
• LWBATVG	Low battery voltage
• LWFUEL	Low fuel
• LWHUM	Low humidity

Table 17-12 REPT EVT ENV Output Parameters (continued)

Parameter and Values	Description
• LWPRES	Low cable pressure
• LWTEMP	Low temperature
• LWWTR	Low water
• MISC	Miscellaneous
• OPENDR	Open door
• POWER	Commercial power failure
• PUMP	Pump failure
• PWR-48	48V power supply failure
• PWR-139	-139V power converter
• PWR-190	-190V power converter
• PWRMJ	Power supply major
• PWRMN	Power supply minor
• RECT	Rectifier failure
• RECTHI	Rectifier high voltage
• RECTLO	Rectifier low voltage
• RINGGENMJ	Ring generator major
• RINGGENMN	Ring generator minor
• RTACADSL	AC or AC/rectifier power fail ADSL equipment
• RTACCRIT	AC or AC/rectifier power fail DCL equipment critical site
• RTACPWR	AC or AC/rectifier power fail DCL equipment
• RTACPWRENG	Commercial AC fail, site equipped with standby engine
• RTBAYPWR	AC power loss distributed power RT bay
• RTRVENG	Retrieve standby engine, commercial AC restored
• SMOKE	Smoke
• TEMP	High-low temperature
• TOXICGAS	Toxic gas
• TREPEATER	T-repeater shelf
• VENTN	Ventilation system failure
CONDEFF	The effect of the event on the condition of the NE Parameter type is COND_EFF—the state of the condition upon the affected unit
• CL	Standing condition cleared
• SC	Standing condition raised
• TC	Transient condition
DESC	Condition description. Optional

17.13 REPT EVT EQPT

Report Event Equipment

Usage Guidelines Reports the occurrence of a non-alarmed event against an equipment unit or slot.

Category Equipment

Security Retrieve

Output Format

```
SID DATE TIME
A ATAG REPT EVT EQPT
"<AID>:<CONDTYPE>,<CONDEFF>],,,,,,:[<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"
;
```

Output Parameters

Table 17-13 REPT EVT EQPT Output Parameters

Parameter and Values	Description
AID	Access identifier from the “25.1.11 EQPT” section on page 25-16. Equipment AID SLOT- $\{1-17\}$
CONDTYPE	Condition type for an alarm or a reported event Parameter type is CONDITION—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
CONDEFF	The effect of the event on the condition of the NE Parameter type is COND_EFF—the state of the condition upon the affected unit
• CL	Standing condition cleared
• SC	Standing condition raised
• TC	Transient condition
DESC	Condition description. Optional

Table 17-13 REPT EVT EQPT Output Parameters (continued)

Parameter and Values	Description
AIDDET	AIDDET uses the same addressing rules as the AID, but specifies AID type and additional details about the entity being managed. Optional Parameter type is EQPT_TYPE—the type of equipment being provisioned into a slot
• 32DMX-L	32 channels demultiplexer unit for L-Band
• 32WSS-L	32 channels wavelength switch selector unit for L-Band
• AD-1B	Optical Add/Drop Multiplexed (OADM) 1 Band Filter
• AD-1C	Optical Add/Drop Multiplexed (OADM) 1 Channel Filter
• AD-2C	Optical Add/Drop Multiplexed (OADM) 2 Channels Filter
• AD-4B	Optical Add/Drop Multiplexed (OADM) 4 Bands Filter
• AD-4C	Optical Add/Drop Multiplexed (OADM) 4 Channels Filter
• AICI	The AICI card
• AIP	The Alarm Indicator Panel
• ALM-PWR	Alarm Power
• ASAP-4	ASAP Carrier card with four PIM slots
• BP	The backplane of the NE
• CE-100T-8	8-port 100T card
• CE-1000-4	4-port GIGE mapper card
• CRFT-TMG	Craft Timing
• DCC	The Data Communications Channel
• DMX-32	Optical De/Multiplexed (DMX) 32 Channels
• DS3i-N-12	DS3i-N-12 card
• E1	E1 card
• E1-42	42 Port E1 card
• E1000T-2	A 2 port interface card supporting 1000 Base T Ethernet facilities
• E100T-12	A 12 port interface card supporting 100 Base T Ethernet facilities
• E100T-4	A four port interface card supporting 100 Base T Ethernet facilities
• E1N	E1N card
• E3	E3 card
• FILLER_CARD	Filler card
• FMEC-SMZ-E1	FMEC card corresponding to E1 card
• FMEC-SMZ-E3	FMEC card corresponding to E3 card
• FTA	The Fan Tray of the NE
• FTA1	The Fan Tray 1 of the NE
• FTA2	The Fan Tray 2 of the NE
• G1K-4	The G1K-4 card

Table 17-13 REPT EVT EQPT Output Parameters (continued)

Parameter and Values	Description
• MD-4	Optical Multiplexer/Demultiplexer with 4 Channels
• ML100X-8	8-port 100T card with optical interface
• MMU	Multiring mesh upgrade unit
• MS-ISC-100T	Fast Ethernet switch card used for internal shelf connection
• MUX-32	Optical Multiplexed (MUX) 32 Channels
• MXP-2.5G-10G	10G (4 * 2.5G) Muxponder card
• MXP-MR-10DME	10 Gbps datamux with enhanced FEC
• OPT-AMP-L	Optical preamplifier unit for L-Band
• OPT-BST	Optical booster amplifier
• OPT-BST-L	Optical booster unit for L-Band
• OPT-PRE	Optical Pre-Amplifier
• OSC-CSM	Optical Service Channel (OSC) with Combiner/Separator Module (SCM)
• OSCM	Optical Service Channel (OSC) Module
• PIM-4	Pluggable interface module with 4 PPM slots
• PPM-1	Pluggable port module with 1 port SFP module
• SHELF	Shelf entity
• STM4	An interface card that supports one or more STM4 (622Mbps) optical facilities
• STM4-4	A four port STM4 card
• STM4-IR-1	An interface card that supports one intermediate range STM4 (622Mbps) optical facilities
• STM4-LR-1	An interface card that supports one long range STM4 (622Mbps) optical facilities
• STM4-SR-1	An interface card that supports one short range STM4 (622Mbps) optical facilities
• STM64-4	A four port STM64 card
• STM64-LR-1	An interface card that supports one or more STM64 optical facilities
• STM1	An interface card that supports multiple STM1 (155Mbps) optical facilities
• STM1-IR-4	An interface card that supports four intermediate range STM1 (155Mbps) optical facilities
• STM1-SR-4	An interface card that supports four short range STM1 (155Mbps) optical facilities
• STM1ATM-IR-6	An interface card that supports six intermediate range STM1 (155Mbps) ATM optical fibers
• 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/192

Table 17-13 REPT EVT EQPT Output Parameters (continued)

Parameter and Values	Description
• STM1POS-SR-4	An interface card that supports four short range STM1 (155Mbps) POS optical facilities
• STM16	An interface card that supports one or more STM16 (10Gbs) optical facilities
• STM16-AS-1	An interface card that supports one short range OC-48 (10Gbs) optical facilities that can be provisioned in any I/O slot
• STM16-ELR-1	An interface card that supports one short range STM16 (2.5Gbs) optical facility
• STM16-IR-1	An interface card that supports one intermediate range STM16 (10Gbs) optical facility
• STM16-LR-1	An interface card that supports one long range STM16 (10Gbs) optical facility
• STM16-SR-1	An interface card that supports one short range STM16 (10Gbs) optical facilities
• TCC	The Timing Communication and Control card
• TXP-MR-10G	10G Multirate Transponder card
• TXP-MR-2.5G	Multirate 2.5G Unprotected
• TXPP-MR-2.5G	Multirate 2.5G Protected
• UNKNOWN	Unknown equipment type
• UNPROVISIONED	Unprovisioned equipment type
• XC-VXC-10G	XC-VXC-10G cross-connect card
• XCVXL-10G	XCVXL-10G cross-connect card
• XCVXL-2.5G	XCVXL-2.5G cross-connect card

17.14 REPT EVT FXFR

Report Event Software Download

Usage Guidelines

Reports the FTP software download status of the start, completion, and completed percentage.



Note

The FXFR_RSLT is only sent when the FXFR_STATUS is COMPLD.



Note

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”
;

Output Parameters

Table 17-14 REPT EVT FXFR Output Parameters

Parameter and Values	Description
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. String
FXFR_STATUS	The status of the file transfer: Start, IP (in progress), or COMPLD Parameter type is TX_STATUS—status of the file transfer
• COMPLD	The file transmission is completed
• IP	The file transmission is in progress
• START	The file transmission is started
FXFR_RSLT	The result of the file transfer: Success or Failure. Optional Parameter type is TX_RSLT—result of the file transfer
• FAILURE	A failed result
• SUCCESS	A successful result
PRCNT_XFRD	The percentage transfer complete. String. Optional

17.15 REPT EVT IOSCFG

Report Event Internet Operating System Configuration File

Usage Guidelines Reports the status of copying the Cisco IOS configuration file when the COPY-IOSCFG command is issued.

**Note**

You can identify if this message is caused by a Cisco IOS configuration file downloading/uploading/merging by looking at the SRC and DEST field in the message. Refer to the COPY-IOSCFG command for more details.

**Note**

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"
;
```

Output Parameters**Table 17-15** REPT EVT IOSCFG Output Parameters

Parameter and Values	Description
AID	Access identifier from the “25.1.11 EQPT” section on page 25-16. Slot AID for the equipment
SRC	Source access identifier. Specifies where the Cisco IOS config file is copied from. String
DEST	Destination. Specifies where the Cisco IOS config file is copied to. String
STATUS	The status of COPY-IOSCFG: Start, IP, or COMPLD Parameter type is TX_STATUS—status of the file transfer
• COMPLD	The file transmission is completed
• IP	The file transmission is in progress
• START	The file transmission is started
RESULT	The result of the file transfer: Success or Failure. Optional Parameter type is TX_RSLT—result of the file transfer

Table 17-15 REPT EVT IOSCFG Output Parameters (continued)

Parameter and Values	Description
• FAILURE	A failed result
• SUCCESS	A successful result

17.16 REPT EVT SECU

Report Event Security

Usage Guidelines

Reports the occurrence of a non-alarmed security event against the NE.

Based on TR-NWT-000835 in TR-NWT-000835 and the AID of the security alarm should be the Connection Identifier (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>],,,,,,;<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\\""
;
```

Output Parameters

Table 17-16 REPT EVT SECU Output Parameters

Parameter and Values	Description
AID	Access identifier. Identifies an entity with the condition. Defaults to COM. String
DNFIELD	String
CONDEFF	The effect of the event on the condition of the NE Parameter type is COND_EFF—the state of the condition upon the affected unit
• CL	Standing condition cleared
• SC	Standing condition raised
• TC	Transient condition
SECURITY	String
DNFIELD1	String

17.17 REPT EVT SESSION

Report Event Session

Usage Guidelines

Reports a non-alarmed event related to establishing a session with the NE.



Note

- 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 */"
;
```

Output Parameters**Table 17-17 REPT EVT SESSION Output Parameters**

Parameter and Values	Description
AID	Access identifier. Identifies the NE with which a session is established. String
EXP	Indicates whether the password is alive (for example, no password updating is required at the moment), expired, or is about to expire Parameter type is YES_NO—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
• NO	No
• YES	Yes
PCN	The number of days still remaining before the existing password expires. PCN appears only if EXP=YES and either 1.) the warning period has not been exhausted or 2.) the user is a new user establishing a session for the first time and the forced password change policy has been activated. String
WARN	Free format text containing additional information about the security event. String

17.18 REPT EVT SYNCN

Report Event Synchronization

Usage Guidelines

Reports the occurrence of a non-alarmed event against a synchronization entity.

Categories

Synchronization

Security

Retrieve

Output Format

```

SID DATE TIME
A ATAG REPT EVT SYNCN
  "<AID>:<CONDTYPE>,<CONDEFF>],,,,,,:[<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”
;

```

Output Parameters**Table 17-18 REPT EVT SYNCN Output Parameters**

Parameter and Values	Description
AID	Access identifier from the “25.1.25 SYNC_REF” section on page 25-24 . Identifies a synchronization reference with alarm condition
CONDTYPE	Condition type for an alarm or a reported event Parameter type is CONDITION—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-Alerted conditions (NA), and Not-Reported (NR) conditions. See the Table 26-1 on page 26-1 for a list of conditions
CONDEFF	The effect of the event on the condition of the NE Parameter type is COND_EFF—the state of the condition upon the affected unit
• CL	Standing condition cleared
• SC	Standing condition raised
• TC	Transient condition
DESC	Condition description. Optional
AIDDET	AIDDET uses the same addressing rules as the AID, but specifies AID type and additional details about the entity being managed. Optional Parameter type is EQPT_TYPE—the type of equipment being provisioned into a slot
• 32DMX-L	32 channels demultiplexer unit for L-Band
• 32WSS-L	32 channels wavelength switch selector unit for L-Band
• AD-1B	Optical Add/Drop Multiplexed (OADM) 1 Band Filter
• AD-1C	Optical Add/Drop Multiplexed (OADM) 1 Channel Filter

Table 17-18 REPT EVT SYNCN Output Parameters (continued)

Parameter and Values	Description
• AD-2C	Optical Add/Drop Multiplexed (OADM) 2 Channels Filter
• AD-4B	Optical Add/Drop Multiplexed (OADM) 4 Bands Filter
• AD-4C	Optical Add/Drop Multiplexed (OADM) 4 Channels Filter
• AICI	The AICI card
• AIP	The Alarm Indicator Panel
• ALM-PWR	Alarm Power
• ASAP-4	ASAP Carrier card with four PIM slots
• BP	The backplane of the NE
• CE-100T-8	8-port 100T card
• CE-1000-4	4-port GIGE mapper card
• CRFT-TMG	Craft Timing
• DCC	The Data Communications Channel
• DMX-32	Optical De/Multiplexed (DMX) 32 Channels
• DS3i-N-12	DS3i-N-12 card
• E1	E1 card
• E1-42	42 Port E1 card
• E1000T-2	A 2 port interface card supporting 1000 Base T Ethernet facilities
• E100T-12	A 12 port interface card supporting 100 Base T Ethernet facilities
• E100T-4	A four port interface card supporting 100 Base T Ethernet facilities
• E1N	E1N card
• E3	E3 card
• FILLER_CARD	Filler card
• FMEC-SMZ-E1	FMEC card corresponding to E1 card
• FMEC-SMZ-E3	FMEC card corresponding to E3 card
• FTA	The Fan Tray of the NE
• FTA1	The Fan Tray 1 of the NE
• FTA2	The Fan Tray 2 of the NE
• G1K-4	The G1K-4 card
• MD-4	Optical Multiplexer/Demultiplexer with 4 Channels
• ML100X-8	8-port 100T card with optical interface
• MMU	Multiring mesh upgrade unit
• MS-ISC-100T	Fast Ethernet switch card used for internal shelf connection
• MUX-32	Optical Multiplexed (MUX) 32 Channels
• MXP-2.5G-10G	10G (4 * 2.5G) Muxponder card
• MXP-MR-10DME	10 Gbps datamux with enhanced FEC
• OPT-AMP-L	Optical preamplifier unit for L-Band

Table 17-18 REPT EVT SYNCN Output Parameters (continued)

Parameter and Values	Description
• OPT-BST	Optical booster amplifier
• OPT-BST-L	Optical booster unit for L-Band
• OPT-PRE	Optical Pre-Amplifier
• OSC-CSM	Optical Service Channel (OSC) with Combiner/Separator Module (SCM)
• OSCM	Optical Service Channel (OSC) Module
• PIM-4	Pluggable interface module with 4 PPM slots
• PPM-1	Pluggable port module with 1 port SFP module
• SHELF	Shelf entity
• STM4	An interface card that supports one or more STM4 (622Mbps) optical facilities
• STM4-4	A four port STM4 card
• STM4-IR-1	An interface card that supports one intermediate range STM4 (622Mbps) optical facilities
• STM4-LR-1	An interface card that supports one long range STM4 (622Mbps) optical facilities
• STM4-SR-1	An interface card that supports one short range STM4 (622Mbps) optical facilities
• STM64-4	A four port STM64 card
• STM64-LR-1	An interface card that supports one or more STM64 optical facilities
• STM1	An interface card that supports multiple STM1 (155Mbps) optical facilities
• STM1-IR-4	An interface card that supports four intermediate range STM1 (155Mbps) optical facilities
• STM1-SR-4	An interface card that supports four short range STM1 (155Mbps) optical facilities
• STM1ATM-IR-6	An interface card that supports six intermediate range STM1 (155Mbps) ATM optical fibers
• 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/192
• STM1POS-SR-4	An interface card that supports four short range STM1 (155Mbps) POS optical facilities
• STM16	An interface card that supports one or more STM16 (10Gbs) optical facilities
• STM16-AS-1	An interface card that supports one short range OC-48 (10Gbs) optical facilities that can be provisioned in any I/O slot
• STM16-ELR-1	An interface card that supports one short range STM16 (2.5Gbs) optical facility
• STM16-IR-1	An interface card that supports one intermediate range STM16 (10Gbs) optical facility

Table 17-18 REPT EVT SYNCN Output Parameters (continued)

Parameter and Values	Description
• STM16-LR-1	An interface card that supports one long range STM16 (10Gbs) optical facility
• STM16-SR-1	An interface card that supports one short range STM16 (10Gbs) optical facilities
• TCC	The Timing Communication and Control card
• TXP-MR-10G	10G Multirate Transponder card
• TXP-MR-2.5G	Multirate 2.5G Unprotected
• TXPP-MR-2.5G	Multirate 2.5G Protected
• UNKNOWN	Unknown equipment type
• UNPROVISIONED	Unprovisioned equipment type
• XC-VXC-10G	XC-VXC-10G cross-connect card
• XCVXL-10G	XCVXL-10G cross-connect card
• XCVXL-2.5G	XCVXL-2.5G cross-connect card

17.19 REPT PM <MOD2>

Report Performance Monitoring (10GFC, 10GIGE, 1GFC, 1GFICON, 2GFC, 2GFICON, CLNT, D1VIDEO, DS3I, DV6000, E1, E3, E4, ESCON, ETRCLO, FSTE, G1000, GFPOS, GIGE, HDTV, ISC1, STM4, STM64, STM1, STM16, OCH, OMS, OTS, POS, STM1E, VC3, VC44C, VC38C, VC464C, VC48C, STS36C, VC4, VC416C, VC42C, VC43C, VC12)

Usage Guidelines

Reports autonomous monitoring statistics as a result of the schedule created by SCHED-PMREPT. See [Table 27-1 on page 27-1](#) for supported modifiers by platform.

Category

Performance

Security

Retrieve

Output Format

```
SID DATE TIME
A ATAG REPT PM <MOD2>
  "<AID>:<MONTYPE>,<MONVAL>,<VLDITY>,<LOCN>,<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"
;
```

Output Parameters**Table 17-19 REPT PM <MOD2> Output Parameters**

Parameter and Values	Description
AID	Access identifier from the “25.1 ALL” section on page 25-1
MONTYPE	Monitored type Parameter type is ALL_MONTYPE—monitoring type list
• AISSP	Alarm Indication Signal Seconds—Path
• ALL	All possible values
• BBEP	SDH Background Block Errors Path
• BBE-PM	OTN—Background Block Errors—Path Monitor Point
• BBER	SDH Background Block Error Ratio
• BBER-PM	OTN—Background Block Error Ratio—Path Monitor Point expressed as 1/10th of a percentage.
• BBER-SM	OTN—Background Block Error Ratio—Section Monitor Point expressed as 1/10th of a percentage.
• BBE-SM	OTN—Background Block Errors—Section Monitor Point
• BIEC	FEC—Bit Errors Corrected
• CGV	8B10B—Code Group Violations
• CVCPP	Coding Violations—CP-Bit Path
• CVL	Coding Violations—Line
• CVP	Coding Violations—Path
• CVS	Coding Violations—Section
• CVV	Coding Violations—Section
• DCG	8B10B—Data Code Groups
• ESCPP	Errored Seconds—CP—Bit Path
• ESL	Errored Seconds—Line
• ESP	Errored Seconds—Path
• ES-PM	OTN—Errored Seconds—Path Monitor Point
• ESR	Errored Second—Ratio
• ESR-PM	Errored Seconds Ratio—Path monitor Point expressed as 1/10th of a percentage
• ESR-SM	Errored Seconds Ratio—Section monitor Point expressed as 1/10th of a percentage
• ESS	Errored Seconds—Section
• ES-SM	OTN—Errored Seconds—Section Monitor Point

Table 17-19 REPT PM <MOD2> Output Parameters (continued)

Parameter and Values	Description
• ESV	Errored Seconds—VC Path
• etherStatsBroadcastPkts	The total number of good packets received that were directed to a multicast address
• etherStatsCollisions	Number of transmit packets that are collisions
• etherStatsCRCAAlignErrors	The total number of packets received that have a length (excluding framing bits, but including FCS octets) of between 64 and 1518 octets
• etherStatsDropEvents	Number of received frames dropped at the port level
• etherStatsFragments	The total number of packets received that were less than 64 octets
• etherStatsJabbers	The total number of packets received that are longer than 1518 octets
• etherStatsOctets	The total number of octets of data
• etherStatsOversizePkts	The total number of packets received that are longer than 1518 octets
• etherStatsPkts	The total number of packets (including bad packets, broadcast packets, and multicast packets) received
• etherStatsUndersizePkts	The total number of packets received that are less than 64 octets
• FCP	Failure Count—Line
• FC-PM	OTN—Failure Count—Path Monitor Point
• FC-SM	OTN—Failure Count—Section Monitor Point
• HP-AR	Availability Ratio
• HP-BBE	High-Order Path Background Block Error
• HP-BBER	High-Order Path Background Block Error Ratio
• HP-EB	High-Order Path Errored Block
• HP-ES	High-Order Path Errored Second
• HP-ESA	High-Order Path Errored Seconds - A
• HP-ESB	High-Order Path Errored Seconds - B
• HP-ESR	High-Order Path Errored Second Ratio
• HP-FC	High-Order Path Failure Count
• HP-NPJC-PDET	High Order Path Negative Pointer Justification Count
• HP-NPJC-PGEN	High Order Path Pointer Justification Count Seconds
• HP-OI	Outage Intensity
• HP-PJCDIFF	High Order Path Pointer Justification Count Difference
• HP-PJCS-PDET	High Order Path Pointer Justification Count
• HP-PPJC-PDET	High Order Path Positive Pointer Justification Count
• HP-PPJC-PGEN	High Order Path, Positive Pointer Justification Count
• HP-SEPI	The number of SEP events in available time
• HP-SES	High-Order Path Severely Errored Seconds

Table 17-19 REPT PM <MOD2> Output Parameters (continued)

Parameter and Values	Description
• HP-SESR	High-Order Path Severely Errored Second Ratio
• HP-UAS	High-Order Path Unavailable Seconds
• ifInBroadcastPkts	Number of broadcast packets received since the last counter reset
• ifInDiscards	The number of inbound packets
• ifInErrorBytePktss	Receive Error Byte
• ifInErrors	The number of inbound packets (or transmission units) that contained errors
• ifInFramingErrorPkts	Receive Framing Error
• ifInJunkInterPkts	Receive Interpacket Junk
• ifInMulticastPkts	Number of multicast packets received since the last counter reset
• ifInOctets	Number of bytes transmitted since the last counter reset
• ifInUcastPkts	Number of unicast packets received since the last counter reset
• ifOutBroadcastPkts	Number of broadcast packets transmitted
• ifOutDiscards	The number of outbound packets
• ifOutErrors	The number of outbound packets (or transmission units) that could not be transmitted because of errors
• ifOutMulticastPkts	Number of multicast packets transmitted
• ifOutPayloadCrcErrors	Received payload CRC errors
• ifOutUcastPkts	Number of unicast packets transmitted
• IOS	8B10B- Idle Ordered Sets
• IPC	Invalid Packet Count
• LBCL-AVG	Average Laser Bias current in uA
• LBCL-MAX	Maximum Laser Bias current in uA
• LBCL-MIN	Minimum Laser Bias current in uA
• LBCN	Normalized Laser Bias Current for STM1-8
• LBCN-HWT	Laser Bias current
• LBCN-LWT	Laser Bias current
• LOSSL	Loss of Signal Seconds—Line
• LP-BBE	Low-Order Path Background Block Error
• LP-BBER	Low-Order Path Background Block Error Ratio
• LP-EB	Low-Order Path Errored Block
• LP-ES	Low-Order Path Errored Second
• LP-ESA	Low-Order Path Errored Seconds - A
• LP-ESB	Low-Order Path Errored Seconds - B
• LP-ESR	Low-Order Path Errored Second Ratio
• LP-FC	Low-Order Path Failure Count
• LP-NPJC-DET	Low Order Negative Pointer Justification Count, Detected

Table 17-19 REPT PM <MOD2> Output Parameters (continued)

Parameter and Values	Description
• LP-NPJC-GEN	Low Order Negative Pointer Justification Count, Generated
• LP-PPJC-DET	Low Order Positive Pointer Justification Count, Detected
• LP-PPJC-GEN	Low Order positive Pointer Justification Count, Generated
• LP-SEP	A sequence of between 3 to 9 consecutive SES
• LP-SEPI	Low-Order Path Severely Errored Period Intensity
• LP-SES	Low-Order Path Severely Errored Seconds
• LP-UAS	Low-Order Path Unavailable Seconds
• MS-PSC	Protection switch count
• MS-PSD	Protection switch duration
• NIOS	8B10B—Non Idle Ordered Sets
• NPJC-PDET	PPJC-PDET:Negative Pointer Justification
• NPJC-PGEN	PPJC-PGEN:Negative Pointer Justification
• OPR-AVG	Average Receive Power in 1/10 uW
• OPR-MAX	Maximum Receive Power in 1/10 uW
• OPR-MIN	Minimum Receive Power in 1/10 uW
• OPRN	Normalized Optical Receive Power for STM1-8
• OPRN-MAX	Maximum value for OPRN
• OPRN-MIN	Minimum value for OPRN
• OPT-AVG	Average Transmit Power in 1/10 uW
• OPT-MAX	Maximum Transmit Power in 1/10 uW
• OPT-MIN	Minimum Transmit Power in 1/10uW
• OPTN	Normalized value for Optical Power Transmitted for STM1-8 card
• OPTN-MAX	Maximum value for OPTN
• OPTN-MIN	Minimum value for OPTN
• OPWR-AVG	Optical Power—Average Interval Value in 1/10th of dBm
• OPWR-MAX	Optical Power—Maximum Interval Value in 1/10th of dBm
• OPWR-MIN	Optical Power—Minimum Interval Value in 1/10th of dBm
• PPJC-PDET	PPJC-PDET:Positive Pointer Justification
• PPJC-PGEN	PPJC-PGEN:Positive Pointer Justification
• PSC	Protection Switching Count
• PSC-R	Protection Switching Count—Ring
• PSC-S	Protection Switching Count—Span
• PSC-W	Protection Switching Count—Working
• PSD	Protection Switching Duration
• PSD-R	Protection Switching Duration—Ring
• PSD-S	Protection Switching Duration—Span

Table 17-19 REPT PM <MOD2> Output Parameters (continued)

Parameter and Values	Description
• PSD-W	Protection Switching Duration—Working
• SASCPP	Severely Errored Framing/AIS Second—CP-Bit Path
• SASP	Severely Errored Framing/AIS Seconds Path
• SEFS	Severely Errored Framing Seconds
• SESCOPP	Severely Errored Second—CP-Bit Path
• SESL	Severely Errored Second—Line
• SESP	Severely Errored Second—Path
• SES-PM	OTN—Severely Errored Second—Path
• SESR	Severely Errored Second—Ratio
• SESR-PM	OTN—Severely Errored Second Ratio—Path Monitor Point expressed as 1/10th of a percentage
• SESR-SM	OTN—Severely Errored Second Ratio—Section Monitor Point expressed as 1/10th of a percentage
• SESS	Severely Errored Second—Section
• SES-SM	OTN—Severely Errored Second—Section Monitor Point
• SESV	Severely Errored Second—VC Path
• UASCPP	Unavailable Second—CP-Bit Path
• UASL	Unavailable Second—Line
• UASP	Unavailable Second—Path
• UAS-PM	OTN—Unavailable Second—Path Monitor Point
• UAS-SM	OTN—Unavailable Second—Section Monitor Point
• UASV	Unavailable Second—VC Path
• UNC-WORDS	FEC—Uncorrectable Words
• VPC	Valid Packet Count
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. String
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 Parameter type is VALIDITY—response validity
• COMPL	Complete response
• PRTL	Partial response

Table 17-19 REPT PM <MOD2> Output Parameters (continued)

Parameter and Values	Description
LOCN	Location associated with a particular command in reference to the entity identified by the AID Parameter type is LOCATION—the location where the action is to take place
• FEND	Action occurs on the Far End of the facility
• NEND	Action occurs on the Near End of the facility
DIRN	Direction relative to the entity identified by the AID. Direction of PM relative to the entity identified by the AID Parameter type is DIRECTION—transmit and receive directions
• BTH	Both transmit and receive directions
• RCV	Receive direction only
• TRMT	Transmit direction only
TMPER	Accumulation time period for performance counters Parameter type is TMPER—accumulation time period for the performance management center
• 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
• 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
• 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
• 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
• RAW-DATA	Performance parameter accumulation interval length; starting from the last time the counters were cleared. This is only applicable to RMON managed PMs
MONDAT	The beginning date of the PM or storage register period specified in TMPER. The format is MM-DD. String
MONTM	The beginning time of day of the PM or storage register period specified in TMPER. The format is HH-MM. String

17.20 REPT SW

Report Switch

Usage Guidelines 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.

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"
;
```

Output Parameters

Table 17-20 REPT SW Output Parameters

Parameter and Values	Description
ACTID	Identifies the equipment unit from the “25.1.11 EQPT” section on page 25-16 that was placed in the active state. Parameter grouping cannot be used with this parameter
STDBYID	Identifies the equipment unit from the “25.1.11 EQPT” section on page 25-16 that was placed in the standby state. Parameter grouping cannot be used with this parameter