



TL1 Alarms and Errors

This chapter provides TL1 alarm and error information supported by the Cisco ONS 15454 and Cisco ONS 15327, including:

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Each alarm includes a description and severity. Errors are listed by error type and include error message. Conditions are not alarmed (NA) or not reported (NR) and are listed in the [“Conditions” section on page 7-18](#)



Note

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

7.1 Alarms

Refer to “Alarm Troubleshooting” in the *Cisco ONS 15454 Troubleshooting Guide* or the *Cisco ONS 15327 Troubleshooting Guide* for complete alarm definitions, trouble notifications, and fault recovery procedures. The alarms are listed alphabetically by alarmable object:

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For a sample of each TL1 alarm that can be generated by the Cisco ONS 15454, refer to the file 15454_r46_tl1_alarms.txt on the Cisco ONS 15454 Software CD in the subdirectory \T11. For a sample of each TL1 alarm that can be generated by the Cisco ONS 15327, refer to the file 15327_r46_tl1_alarms.txt on the Cisco ONS 15327 Software CD in the subdirectory \T11. These files can be used to test an operations support system's ability to receive alarms which the ONS 15454/ONS 15327 can raise.

7.1.1 AEP

Alarm expansion panel

Table 7-1 AEP

Alarm	Severity	Description
EQPT	CR/SA	An Equipment Failure alarm indicates that a hardware failure has occurred on the reporting card.
MFGMEM	CR/SA	The manufacturing data memory failure alarm means that the ONS 15454/15327 cannot access the data on the erasable programmable read-only memory (EPROM).

7.1.2 AIP

Auxiliary interface protection module

Table 7-2 AIP

Alarm	Severity	Description
INVMACADR	MJ/NSA	The Equipment Failure Invalid MAC Address alarm occurs when the ONS 15454/15327 Media Access Control layer address (MAC Address) is invalid.
MEA	CR/SA	If the Mismatch of Equipment Attributes alarm is reported against the AIP, the fuse in the AIP board blew or is missing. The MEA alarm also occurs when an old AIP board with a 2-Amp fuse is installed in a newer 10 Gbps-compatible or ANSI shelf assembly (15454-SA-ANSI).
MFGMEM	CR/SA	The manufacturing data memory failure alarm means that the ONS 15454/15327 cannot access the data on the erasable programmable read-only memory (EPROM).

7.1.3 BITS

Building integration timing supply (BITS) incoming references (BITS-1, BITS-2)

Table 7-3 BITS

Alarm	Severity	Description
LOF	MJ/SA	A port on the TCC2/MIC BITS input detects a loss of frame (LOF) on the incoming BITS timing reference signal.
LOS	MJ/SA	The TCC2/MIC card has a loss of signal (LOS) condition from the BITS timing source.
SSM-FAIL	MN/NSA	Synchronization status messaging failed.

7.1.4 BP

The backplane

Table 7-4 BP

Alarm	Severity	Description
MEA	CR/SA	The MEA alarm for the backplane occurs when the revision of the backplane is incompatible with cross-connect equipment.
MFGMEM	CR/SA	The Manufacturing Data Memory Failure (MFGMEM) alarm means that the ONS 15454/15327 cannot access the data on the erasable programmable read-only memory (EPROM).

7.1.5 CC

Control channel

Table 7-5 CC

Alarm	Severity	Description
LMP-HELLODOWN	MN/NSA	The Link Management Protocol (LMP) Hello Down alarm means that Hello protocol, which monitors unified control plane (UCP) control channel status, is not available for link management.
LMP-NDFAIL	MN/NSA	The LMP Neighbor Detection Fail alarm means that neighbor detection within the UCP has failed.

7.1.6 CKT

UCP circuit

Table 7-6 CKT

Alarm	Severity	Description
CKTDOWN	CR/SA	The Unified Control Plane (UCP) Circuit Down alarm applies to logical circuits created within the UCP between devices and It occurs when the there is signaling failure across a UCP interface.

7.1.7 DS1

A DS1 line on a DS1 or DS3XM card

Table 7-7 DS1

Alarm	Severity	Description
LOF	MJ/SA	The DS-1 LOF alarm indicates that the receiving ONS 15454 has lost frame delineation in an incoming DS-1 data stream.
LOS	MJ/SA	A LOS alarm for a DS-3 port or a DS-1 port occurs when the port on the card is in service but no signal is being received.
RCVR-MISS	MJ/SA	A Facility Termination Equipment Receiver Missing alarm occurs when the facility termination equipment detects an incorrect amount of impedance on its backplane connector.
TRMT	MJ/SA	A Missing Transmitter alarm occurs when there is a transmit failure on the DS-1 card because of an internal hardware failure. The card must be replaced.
TRMT-MISS	MJ/SA	A Facility Termination Equipment Transmitter Missing alarm occurs when the facility termination equipment detects an incorrect amount of impedance on its backplane connector.

7.1.8 DS3

A DS3 line on a DS3 or DS3XM card

Table 7-8 DS3

Alarm	Severity	Description
LOF	CR/SA	The DS-3 LOF alarm indicates that the receiving ONS 15454/15327 has lost frame delineation in the incoming DS-3 data stream.
LOS	CR/SA	A LOS alarm for either a DS-3 port or a DS-1 port occurs when the port on the card is in service but no signal is being received.

7.1.9 DWDM Client

The low-speed port; such as a TXP or MXP, where the optical signal is dropped.

Table 7-9 DWDM Client

Alarm	Severity	Description
CARLOSS	MJ/SA	A Carrier Loss alarm on the transponder (TXP) or muxponder (MXP) card occurs when G.709 monitoring is turned off at the client port.
EOC	MJ/NSA	The SONET Data Communications Channel (DCC) Termination Failure alarm occurs when the ONS 15454 loses its data communications channel.
GE-OOSYNC	CR/SA	The Gigabit Ethernet Out of Sync alarm object applies to TXP cards when the Gigabit Ethernet signal is out of synchronization and is very similar to the SONET LOS alarm.
HI-LASERBIAS	MN/NSA	The Equipment High Transmit Laser Bias Current alarm is raised against the TXP and MXP card laser performance. The alarm indicates that the card laser has reached the maximum laser bias tolerance.
HI-RXPOWER	MN/NSA	The Equipment High Receive Power alarm is an indicator for TXP card and MXP card received optical signal power. This alarm occurs when the measured optical power of the received signal exceeds the threshold.
HI-TXPOWER	MN/NSA	The Equipment High Transmit Power alarm is an indicator for TXP card and MXP card transmitted optical signal power. This alarm occurs when the measured optical power of the transmitted signal exceeds the threshold.
LOF	CR/SA	The LOF alarm occurs when a port on the reporting OC-N card has an LOF condition. LOF indicates that the receiving ONS 15454 has lost frame delineation in the incoming data.
LO-RXPOWER	MN/NSA	The Equipment Low Receive Power alarm is an indicator for TXP card and MXP card received optical signal power. This alarm occurs when the measured optical power of the received signal falls under the threshold.
LOS	CR/SA	The Loss of Signal for a DWDM client applies to TXP and MXP cards. It is raised when the card port is not receiving input.

Table 7-9 DWDM Client (continued)

Alarm	Severity	Description
LO-TXPOWER	MN/NSA	The Equipment Low Transmit Power alarm is an indicator for TXP card and MXP card transmitted optical signal power. This alarm occurs when the measured optical power of the transmitted signal falls under the threshold.
PORT-CODE-MISM	CR/SA	The Pluggable Port Security Code Mismatch alarm refers to ML-series Ethernet (traffic) cards (MXP and TXP) and occurs when the SFP connector that is plugged into the card is not supported by Cisco.
PORT-COMM-FAIL	CR/SA	The Port Communication Failure alarm applies to TXP and MXP card SFPs and occurs when the card cannot communicate with the SFP.
PORT-MISMATCH	CR/SA	The Pluggable Port Mismatch alarm applies to ML-series Ethernet (traffic) card small form pluggable (SFP) connectors. The alarm indicates that the provisioned payload for the connector does not match the SFP configuration.
PORT-MISSING	CR/SA	The Pluggable Port Missing alarm applies to ML-series Ethernet (traffic) card small form pluggable (SFP) connectors. The alarm indicates that the connector is not plugged into the card port.
SSM-FAIL	MN/NSA	The SSM Failed alarm occurs when the synchronization status messaging received by the ONS 15454 fails.
TIM	CR/SA	The Section Trace Identifier Mismatch (TIM) occurs when the expected J0 path trace string does not match the received string.
TIM-MON	MN/NSA	The TIM Section Monitor Trace Identifier Mismatch alarm is similar to the TIM-P alarm, but it applies to TXP and MXP cards when they are configured in transparent mode.

7.1.10 DWDM Trunk

The optical or DWDM card carrying the high-speed signal.

Table 7-10 DWDM Trunk

Alarm	Severity	Description
CARLOSS	MJ/SA	A Carrier Loss alarm on the ML-series Ethernet (traffic) card occurs when the Ethernet port has lost its link and is not receiving a valid signal.
DSP-COMM-FAIL	MJ/SA	The DSP Communication Failure alarm indicates that there is a communications failure between an MXP or TXP card microprocessor and the on-board DSP chip that controls the trunk (DWDM) port.

Table 7-10 DWDM Trunk (continued)

Alarm	Severity	Description
DSP-FAIL	MJ/SA	The DSP Failure alarm indicates that a DSP-COMM-FAIL has persisted for an extended period on an MXP or TXP card and that the card is faulty.
EOC	MJ/NSA	The SONET Data Communications Channel (DCC) Termination Failure alarm occurs when the ONS 15454 loses its data communications channel.
GCC-EOC	MJ/NSA	The GCC Embedded Operation Channel Failure alarm applies to the OTN communication channel for TXP and MXP cards. It is raised when the channel cannot operate.
GE-OOSYNC	CR/SA	The Gigabit Ethernet Out of Sync alarm object applies to TXP cards when the Gigabit Ethernet signal is out of synchronization and is very similar to the SONET LOS alarm.
HI-LASERBIAS	MN/NSA	The Equipment High Transmit Laser Bias Current alarm is raised against the TXP and MXP card laser performance. The alarm indicates that the card laser has reached the maximum laser bias tolerance.
HI-RXPOWER	MN/NSA	The Equipment High Receive Power alarm is an indicator of the optical signal power that is transmitted to the TXP or MXP card.
HI-TXPOWER	MN/NSA	The Equipment High Transmit Power alarm is an indicator for TXP card and MXP card transmitted optical signal power. This alarm occurs when the measured optical power of the transmitted signal exceeds the threshold.
LOC	CR/SA	Loss of Fiber Continuity - Mux 32 occurs when G709 is turned on for trunk ports.
LOF	CR/SA	The Loss of Frame for the DWDM trunk applies to the trunk optical or electrical signal that is carried to TXP and MXP cards.
LOM	CR/SA	The optical transport unit (OTU) Loss of Multiframe alarm applies to MXP and TXP cards when the Multi Frame Alignment Signal (MFAS) overhead field is errored for more than five frames and persists for more than three milliseconds.
LO-RXPOWER	MN/NSA	The Equipment Low Receive Power alarm is an indicator for TXP card and MXP card received optical signal power. This alarm occurs when the measured optical power of the received signal falls under the threshold.
LOS	CR/SA	The Loss of Signal for the DWDM trunk applies to the trunk optical or electrical signal that is carried to TXP and MXP cards.
LO-TXPOWER	MN/NSA	The Equipment Low Transmit Power alarm is an indicator for TXP card and MXP card transmitted optical signal power. This alarm occurs when the measured optical power of the transmitted signal falls under the threshold.

Table 7-10 DWDM Trunk (continued)

Alarm	Severity	Description
OTUK-LOF	CR/SA	The OTUK LOF alarm applies to TXP cards and MXP cards when G.709 monitoring is enabled for the cards. The alarm indicates that the card has lost frame delineation on the input data. Loss of frame occurs when the optical transport unit overhead frame alignment (FAS) area is errored for more than five frames and that the error persists more than three milliseconds.
PTIM	MN/NSA	The Payload Type Identifier Mismatch alarm occurs when there is a mismatch between the way the G.709 option is configured on MXP cards and TXP card at each end of the optical span.
SSM-FAIL	MN/NSA	The SSM Failed alarm occurs when the synchronization status messaging received by the ONS 15454 fails.
TIM	CR/SA	The Section Trace Identifier Mismatch (TIM) occurs when the expected J0 section trace string does not match the received section trace string.
TIM-MON	MN/NSA	The TIM Section Monitor Trace Identifier Mismatch alarm is similar to the TIM-P alarm, but it applies to TXP and MXP cards when they are configured in transparent mode.
WVL-MISMATCH	MJ/SA	The Equipment Wavelength Mismatch alarm applies to the TXP and MXP cards. It occurs when you provision the card in CTC with a wavelength that the card does not support.

7.1.11 ECN

An EC-N line on an EC-N card

Table 7-11 ECN

Alarm	Severity	Description
LOF	CR/SA	The EC-N LOF alarm occurs when a port on the reporting OC-N card has an LOF condition.
LOS	CR/SA	LOS on an EC-N port occurs when a SONET receiver detects an all-zero pattern for 10 microseconds or longer.

7.1.12 ENV

An environmental alarm port

Table 7-12 ENV

Alarm	Severity	Description
EXT	MN/NSA	A Failure Detected External to the NE alarm occurs because an environmental alarm is present, for example, a door is open or flooding has occurred.

7.1.13 EQPT

A card in any of the card slots. This object is used for alarms that refer to the card itself and all other objects on the card including ports, lines, STS and VT.

Table 7-13 EQPT

Alarm	Severity	Description
AUTORESET	MN/NSA	The Automatic System Reset alarm occurs when you change an IP address or perform any other operation that causes an automatic card-level reboot.
BKUPMEMP	CR/NSA	A problem with the TCC2/XTC card's flash memory.
CARLOSS	MJ/SA	A Carrier Loss on the LAN Equipment alarm occurs when the ONS 15454/15327 and the workstation hosting CTC do not have a TCP/IP connection.
COMIOXC	CR/SA	The I/O Slot To Cross-Connect Communication Failure alarm is caused by the cross-connect card. It occurs when there is a communication failure for a particular I/O slot.
CONTBUS-A	MJ/NSA	The TCC2/XTC card in Slot 7/Slot 5 has lost communication with a traffic card.
CONTBUS-A-18	MJ/NSA	The main processor on the TCC2/XTC card in Slot 7/Slot 5 has lost communication with the coprocessor on the second TCC2/XTC card in Slot 11/Slot 6.
CONTBUS-B	MJ/NSA	The TCC2/XTC card in Slot 11/Slot 6 has lost communication with a traffic card.
CONTBUS-B-18	MJ/NSA	The main processor on the TCC2/XTC card in Slot 11/Slot 6 has lost communication with the coprocessor on the TCC2/XTC card in Slot 7/Slot 5.
CTNEQPT-PBPROT	CR/SA	A failure of the main payload between the protect cross-connect (XC/XCVT/XC10G) card in Slot 10, or the protect XTC card, and the reporting traffic card.
CTNEQPT-PBWORK	CR/SA	A failure of the main payload bus between the active cross-connect (XC/XCVT/XC10G) card in Slot 8, or the active XTC card, and the reporting traffic card.
EQPT	CR/SA	A hardware failure occurred on the reporting card.
ERROR-CONFIG	MN/NSA	The Error in Startup Configuration alarm applies to the ML-series Ethernet cards. These cards process startup configuration files line by line. If one or more lines cannot be executed, the error causes the ERROR-CONFIG alarm.
EXCCOL	MN/NSA	There are too many collisions occurring between data packets on the network management LAN, and communications between the ONS 15454/15327 and CTC may be affected.
HITEMP	MN/NSA	The High Temperature alarm occurs when the temperature of the ONS 15454 is above 122° F (50° C).
IMPROPRMVL	CR/SA	A card was physically removed from its slot before the card was deleted from CTC.

Table 7-13 EQPT (continued)

Alarm	Severity	Description
MEA	CR/SA	The MEA alarm for equipment is reported against a card slot when the physical card inserted into a slot does not match the card type that is provisioned for that slot in CTC.
MEM-GONE	MJ/NSA	Data generated by software operations exceeds the memory capacity of the TCC2/XTC card.
MEM-LOW	MN/NSA	Data generated by software operations is close to exceeding the memory capacity of the TCC2/XTC card.
PEER- NORESPONSE	MJ/NSA	The switch agent raises a Peer Card Not Responding alarm if either traffic card in a protection group does not receive a response to the peer status request message
PROTNA	MN/NSA	The Protection Unit Not Available is raised by an out-of-service protection when a TCC2/XTC or cross-connect card or port that is provisioned as part of a protection group is not available.
PWR-REDUN	MN/NSA	The Redundant Power Capability Lost alarm applies to cards (such as the TCC2 and newer optical cards) that have two built-in fuses. The alarm indicates that one of the fuses has blown, and must be serviced.
SFTWDOWN	MN/NSA	A Software Download in progress alarm occurs when the TCC2/XTC is downloading or transferring software.
SWMTXMOD	CR/SA	The Switching Matrix Module Failure alarm occurs on the cross-connect card or a traffic card. If the alarm reports against a traffic card, it means that the logic component on the cross-connect card is out of frame (OOF) with the logic component on the reporting traffic card.

7.1.14 ETHER

Ethernet, such as for straight-through (CAT 5) LAN cables.

Table 7-14 ETHER

Alarm	Severity	Description
CARLOSS	MJ/SA	A Carrier Loss on the LAN E-Series Ethernet (traffic) Card alarm is the data equivalent of an LOS (OC-N). The Ethernet card has lost its link and is not receiving a valid signal.

7.1.15 EXTSYNCH

BITS outgoing references (SYNC-BITS1, SYNC-BITS2)

Table 7-15 EXTSYNCH

Alarm	Severity	Description
SYNCPRI	MN/NSA	A loss of the primary timing source (reference 1).

Table 7-15 *EXTSYNCH (continued)*

SYNCSEC	MN/NSA	A loss of the secondary timing source (reference 2).
SYNCTHIRD	MN/NSA	A loss of the third timing source (reference 3).

7.1.16 FAN

Fan-tray assembly

Table 7-16 *FAN*

Alarm	Severity	Description
EQPT-MISS	CR/SA	Indicates the replaceable fan-tray assembly unit is missing or not fully inserted.
FAN	CR/SA	A problem with the fan-tray assembly.
FANDEGRADE	MJ/NSA	The Partial Fan Failure alarm is raised if fan speed for one of the fans in the fan-tray assembly falls below 500 RPM when read by a tachometry counter.
MEA	CR/SA	The MEA alarm is reported against the fan tray when a newer fan-tray assembly (15454-FTA3) with a 5 Amp fuse is used with an older shelf assembly or when an older fan tray with a 2 Amp fuse is used with a newer 10 Gbps compatible or ANSI shelf assembly (15454-SA-ANSI) that contains cards introduced in Release 3.1 or later.
MFGMEM	CR/SA	The manufacturing data memory failure alarm occurs if the ONS 15454 cannot access the data in the erasable programmable read-only memory (EEPROM).

7.1.17 FCMR

Fiber channel

Table 7-17 *FCMR*

Alarm	Severity	Description
INC-SIGLOSS	MJ/NSA	The Incoming Signal Loss on the Fibre Channel Interface alarm is raised when there is a signal loss at the local Fibre Channel port.
INC-SYNCCLOSS	MJ/NSA	The Incoming Synchronization Loss on the Fibre Channel Interface alarm is raised when there is a synchronization error at the local Fibre Channel port.
TPTFAIL	MJ/SA	The Transport Fail alarm is raised against a local Fiber Channel port when the port receives another SONET error such as AIS-P, LOP-P, UNEQ-P, PLM-P, TIM-P, LOM (for VCat only), or SQM (for VCat only).

7.1.18 FUDC

SONET byte user data channel

Table 7-18 FUDC

Alarm	Severity	Description
LOS	MN/NSA	The LOS (FUDC) alarm is raised if there is a UDC circuit created on the AIC-I DCC port but the port is not receiving signal input.

7.1.19 HDGE (G1000)

High Density Gigabit Ethernet. Applies to G1000-4 cards.

Table 7-19 HDGE (G1000)

Alarm	Severity	Description
CARLOSS	MJ/SA	A carrier loss on the LAN G-series card is the data equivalent of an LOS (OC-N) alarm. The Ethernet card has lost its link and is not receiving a valid signal.
TPTFAIL	MJ/SA	The Transport (TPT) Layer Failure alarm for the G-series Ethernet (traffic) cards indicates a break in the end-to-end Ethernet link integrity feature of the G1000-4 cards. TPTFAIL indicates a far-end condition and not a problem with the port reporting TPTFAIL.
TUNDERRUN	MJ/SA	The Ethernet Transmit Underrun alarm is raised by a G1000-4 card when there is a major hardware fault on a port

7.1.20 L2SC (ML-Series)

Layer 2 (and Layer 3 for ML-series) Switching Device

Table 7-20 L2SC

Alarm	Severity	Description
CARLOSS	MJ/SA	A Carrier Loss alarm on the ML-series Ethernet (traffic) card is the data equivalent of the LOS (OCN) alarm. The Ethernet port has lost its link and is not receiving a valid signal.
TPTFAIL	MJ/SA	The TPT Layer Failure alarm for the ML-series Ethernet (traffic) cards indicates a break in the end-to-end POS link integrity feature of the ML-series POS cards. TPTFAIL indicates a far-end condition or misconfiguration of the POS port.

7.1.21 NBR

Neighbor

Table 7-21 NBR

Alarm	Severity	Description
RSVP-HELLODOWN	MN/NSA	The Resource Reservation Protocol (RSVP) Hello Down alarm occurs when the Hello protocol, which monitors UCP control channel status, is not available for reserving resources.

7.1.22 NE

The entire network element

Table 7-22 NE

Alarm	Severity	Description
APC-DISABLED	MJ/NSA	The Automatic Power Control (APC) Disabled occurs when the information related to the number of channels is not reliable.
APC-FAIL	MJ/NSA	The APC Failure alarm occurs when APC has not been able to create a setpoint on a node because it has consumed all allocated power margins.
DATAFLT	MN/NSA	The TCC2/XTC exceeds its flash memory.
DBOSYNC	MJ/NSA	The standby TCC2/XTC “To be Active” database does not synchronize with the “Active” database on the active TCC2/XTC.
DUP-IDADDR	MJ/NSA	The Duplicate IP Address alarm indicates that the alarmed node’s IP address is already in use within the same DCC area.
DUP-NODENAME	MJ/NSA	The Duplicate Node Name alarm indicates that the alarmed node’s alphanumeric name is already being used within the same DCC area.
HITEMP	CR/SA	The High Temperature alarm occurs when the temperature of the ONS 15454/15327 is above 122° F (50° C).
OPTNTWMIS	MJ/NSA	The Optical Network Type Mismatch alarm is raised when DWDM nodes are not configured for the same type of network, either MetroCore and MetroAccess.
SNTP-HOST	MN/NSA	The SNTP (Simple Network Timing Protocol) Host Failure alarm indicates that an ONS node serving as an IP proxy for the other ONS nodes in the ring is not forwarding SNTP information to the other ONS nodes in the network.
SYSBOOT	MJ/SA	New software is booting on the TCC2/XTC card.

7.1.23 NESYNCH

Represents the timing status of the NE

Table 7-23 NESYNCH

Alarm	Severity	Description
FSTSYNC	MN/NSA	A Fast Start Synchronization alarm occurs when the ONS node is choosing a new timing reference.
HLDOVRSYNC	MJ/SA	A loss of primary or secondary timing reference.
SYNCPRI	MN/NSA	A loss of the primary timing source (reference 1).
SYNCSEC	MN/NSA	A loss of the secondary timing source (reference 2).
SYNCTHIRD	MN/NSA	A loss of the third timing source (reference 3).

7.1.24 OCN

An OC-N line on an OC-N card

Table 7-24 OCN

Alarm	Severity	Description
APSB	MN/NSA	The line terminating equipment detects protection switching byte failure in the incoming automatic protection switching (APS) signal.
APSCDFLTK	MN/NSA	A BLSR is not properly configured.
APSC-IMP	MN/NSA	Invalid K bytes.
APSCINCON	MN/SA	The SONET overhead contains K1/K2 APS bytes that notify receiving equipment, such as the ONS 15454/ONS 15327, to switch the SONET signal from a working to a protect path.
APSCM	MJ/SA	The ONS 15454/ONS 15327 expects a working channel but receives a protection channel.
APSCNMIS	MJ/SA	The source node ID contained in the K2 byte of the APS channel being received is not present in the ring map.
APSM	MN/NSA	There is a mismatch of the protection switching schemes at the two ends of the span.
AUTOLSROFF	CR/SA	The OC-192 card temperature exceeds 194° F (90 ° C). (ONS 15454)
BLSROSYNC	MJ/SA	The BLSR Out Of Synchronization alarm is caused when you attempt to add or delete a circuit and a node on a working ring loses its DCC connection because all transmit and receive fiber has been removed.
EOC	MJ/NSA	The SONET Data Communications Channel (DCC) Termination Failure alarm occurs when the ONS 15454/15327 loses its data communications channel.
EOC-L	MJ/NSA	The SONET Data Communications Channel (DCC) Termination Failure alarm occurs when the ONS 15454/15327 loses its data communications channel.
E-W-MISMATCH	MJ/SA	Nodes in a ring have an east slot/port misconnected to another east slot/port or a west slot/port misconnected to another west slot/port.

Table 7-24 OCN (continued)

Alarm	Severity	Description
EXTRA-TRAF-PREEMPT	MJ/SA	An Extra Traffic Preempted alarm occurs on OC-N cards in two-fiber and four-fiber BLSRs because low-priority traffic directed to the protect system has been preempted by a working system protection switch.
FEPRLF	MN/NSA	an APS switching channel SF occurs on the protect card coming into the node.
KBYTE-APS-CHANNEL-FAILURE	MN/NSA	The APS Channel Failure alarm is raised when there a span provisioned for different APS channels on each side.
LASEREOL	MN/NSA	The Laser Approaching End of Life alarm applies to TXP and MXP cards and occurs when the laser in the card will need to be replaced.
LOF	CR/SA	A port on the reporting OC-N card or TXP card has an LOF condition.
LOS	CR/SA	A SONET receiver detects an all-zero pattern for 10 microseconds or longer.
SSM-FAIL	MN/NSA	Synchronization status messaging received by the ONS 15454/ONS 15327 fails.

7.1.25 OSCRING

Optical service channel ring

Table 7-25 OSCRING

Alarm	Severity	Description
RING-ID-MIS	MJ/NSA	(Applicable to DWDM nodes only) The Ring ID Mismatch refers to the ring OSC in APC and occurs when a ring ID does not match other detectable node ring IDs.

7.1.26 PWR

Power

Table 7-26 PWR

Alarm	Severity	Description
BAT-FAIL	MJ/SA	The Battery Fail alarm occurs when one of the two power supplies (A or B) is not detected.
EHIBATVG	MJ/SA	The Extreme High Voltage Battery alarm occurs in a -48 Vdc environment when a battery lead's input voltage exceeds the extreme high power threshold.

Table 7-26 PWR (continued)

ELWBATVG	MJ/SA	The Extreme Low Voltage Battery alarm occurs in a –48 Vdc environment when the voltage on the battery feeds is extremely low or has been lost, and power redundancy is no longer guaranteed.
HIBATVG	MJ/SA	The High Voltage Battery alarm occurs in a –48 Vdc environment when a battery lead's input voltage exceeds the high power threshold.
LWBATVG	MJ/SA	The Low Voltage Battery alarm occurs in a –48 Vdc environment when a battery lead's input voltage falls below the low power threshold. This threshold, with a default value of –44 Vdc, is user-provisionable.

7.1.27 STSMON

STS alarm detection at the monitor point (upstream from the cross-connect)

Table 7-27 STSMON

Alarm	Severity	Description
LOP-P	CR/SA	A loss of pointer (LOP) condition at the path level.
PLM-P	CR/SA	A signal label mismatch failure (SLMF).
TIM-P	MN/NSA	The TIM Path alarm occurs when the expected path trace string does not match the received path trace string.
UNEQ-P	CR/SA	An SLMF UNEQ Path alarm occurs when the path does not have a valid sender.

7.1.28 STSTERM

STS alarm detection at termination (downstream from the cross-connect)

Table 7-28 STSTERM

Alarm	Severity	Description
LOM	CR/SA	The optical transport unit (OTU) Loss of Multiframe is a VCAT member alarm which applies to MXP and TXP cards when the Multi Frame Alignment Signal (MFAS) overhead field is errored for more than five frames and persists for more than three milliseconds.
LOP-P	CR/SA	A loss of pointer (LOP) condition at the path level.
PLM-P	CR/SA	A signal label mismatch failure (SLMF).
SQM	CR/SA	The Sequence Mismatch alarm is a VCAT member alarm that occurs when the expected sequence numbers of VCAT members do not match the received sequence numbers.

Table 7-28 STSTERM (continued)

TIM-P	CR/SA	The TIM Path alarm occurs when the expected path trace string does not match the received path trace string.
UNEQ-P	CR/SA	An SLMF UNEQ Path alarm occurs when the path does not have a valid sender.

7.1.29 VCATGROUP

VT concatenation

Table 7-29 VCATGROUP

Alarm	Severity	Description
LOA	CR/SA	The Loss of Alignment on a VCG is a VCAT member alarm that occurs when members of a VCG travel over different paths in the network (due to initial operator provisioning or to protection or restoration events) and the differential delays between the paths cannot be recovered by terminating hardware buffers.

7.1.30 VT-MON

VT1 alarm detection at the monitor point (upstream from the cross-connect)

Table 7-30 VT-MON

Alarm	Severity	Description
AUTOSW-LOP	MN/SA	The AUTOSW-LOP alarm indicates that automatic path protection switching occurred because of an LOP-V alarm.
AUTOSW-UNEQ	MN/SA	AUTOSW-UNEQ (VTMON) indicates that an UNEQ-V caused automatic path protection switching to occur.
LOP-V	MJ/SA	The LOP VT alarm indicates a loss of pointer at the VT level.
UNEQ-V	MJ/SA	An SLMF UNEQ VT alarm indicates that the node is receiving SONET path overhead with bits 5, 6, and 7 of the V5 overhead byte all set to zeros.

7.1.31 VT-TERM

VT1 alarm detection at termination (downstream from cross-connect)

Table 7-31 VT-TERM

Alarm	Severity	Description
LOM	CR/SA	The optical transport unit (OTU) Loss of Multiframe is a VCAT member alarm which applies to MXP and TXP cards when the Multi Frame Alignment Signal (MFAS) overhead field is errored for more than five frames and persists for more than three milliseconds.
LOP-V	MJ/SA	The LOP VT alarm indicates a loss of pointer at the VT level.
PLM-V	MJ/SA	A Payload Label Mismatch VT Layer alarm indicates that the content of the V5 byte in the SONET overhead is inconsistent or invalid.
SQM	MJ/SA	The Sequence Mismatch alarm is a VCAT member alarm that occurs when the expected sequence numbers of VCAT members do not match the received sequence numbers.
UNEQ-V	MJ/SA	An SLMF UNEQ VT alarm indicates that the node is receiving SONET path overhead with bits 5, 6, and 7 of the V5 overhead byte all set to zeroes.

7.2 Conditions

The term “Condition” refers to any problem detected on an ONS 15454 or ONS 15327 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. A snapshot of all current raised conditions on a node, whether they are reported or not, can be retrieved using the CTC Conditions window or using the RTRV-COND commands. You can see the actual reporting messages for alarms and NA conditions in the CTC History tab. [Table 7-32](#) lists the conditions.

7.2.1 Conditions

Table 7-32 Conditions

Condition	Description
AIS	Alarm Indication Signal
AIS-L	Alarm Indication Signal - Line
AIS-P	Alarm Indication Signal - Path
AIS-V	Alarm Indication Signal - VT
ALS	Automatic Laser Shutdown
APC-DISABLED	Automatic Power Control Disabled
APC-FAIL	Automatic Power Control Failure
APSB	Byte Failure
APSC-IMP	Improper APS Code

Table 7-32 Conditions (continued)

Condition	Description
APSCDFLTK	Default K Byte
APSCINCON	Inconsistent APS Code
APSCM	Protection Switching Channel Match Failure
APSCNMIS	Node Id Mismatch
APSIMP	APS Invalid Mode
APSM	Automatic Protection Switch Mode Mismatch
AS-CMD	Alarms Suppressed By User Command
AS-MT	Alarms Suppressed For Maintenance
AU-LOF	LOF - Administration Unit - Loss of Multi Frame
AUD-LOG-LOSS	Audit Log 100 Percent Full - Oldest records will be lost
AUD-LOG-LOW	Audit Log 80 Percent Full
AUTOLSROFF	Automatic Laser Shutoff Due To High Temperature
AUTORESET	Automatic System Reset
AUTOSW-AIS	Automatic path protection Switch Caused By AIS
AUTOSW-LOP	Automatic path protection Switch Caused By LOP
AUTOSW-PDI	Automatic path protection Switch Caused By PDI
AUTOSW-SDBER	Automatic path protection Switch Caused By SDBER
AUTOSW-SFBER	Automatic path protection Switch Caused By SFBER
AUTOSW-UNEQ	Automatic path protection Switch Caused By UNEQ
BAT-FAIL	Battery Failure
BKUPMEMP	Primary Non-Volatile Backup Memory Failure
BLSROSYNC	BLSR Out Of Sync
CARLOSS	Carrier Loss On The LAN
CKTDOWN	Signaling Unable to setup circuit
CLDRESTART	Cold Restart
COMIOXC	IO Slot To XCON Communication Failure
COMM-FAIL	Plug-in Module Communication Failure
CONTBUS-A-18	TCC A To DCC A Processor Communication Failure
CONTBUS-B-18	TCC B To DCC B Processor Communication Failure
CONTBUS_A	Controller A To Shelf Slot Communication Failure
CONTBUS_B	Controller B To Shelf Slot Communication Failure

Table 7-32 Conditions (continued)

Condition	Description
CTNEQPT-MISMATCH	Connection Equipment Mismatch
CTNEQPT-PBPROT	Interconnection Equipment Failure - Protect XC Payload Bus
CTNEQPT-PBWORK	Interconnection Equipment Failure - Working XC Payload Bus
DATAFLT	Software Fault - Data Integrity Fault
DBOSYNC	Standby Database Out of Sync
DS3-MISM	DS3 Frame Format Mismatch
DSP-COMM-FAIL	DSP Communication Failure
DSP-FAIL	DSP Failure
DUP-IPADDR	IP address already in use within the same DCC Area
DUP-NODENAME	Node name already in use within the same DCC Area
E-W-MISMATCH	Both Ends Of Fiber Provisioned As East Or Both As West
EHIBATVG	Extreme High Volt
ELWBATVG	Extreme Low Volt
EOC	SDCC Termination Failure
EOC-L	Line DCC Termination Failure
EQPT	Equipment Failure
EQPT-MISS	Replaceable Equipment/Unit is Missing
ERFI-P-CONN	Enhanced Remote Failure Indication - Path - Connectivity
ERFI-P-PAYLD	Enhanced Remote Failure Indication - Path - Payload
ERFI-P-SRVR	Enhanced Remote Failure Indication - Path - Server
ERROR-CONFIG	Error in Startup Config
ETH-LINKLOSS	Rear Panel Ethernet Link Removed
EXCCOL	Excess Collisions On The LAN
EXERCISE-RING-FAIL	Exercise Request on Ring Failed
EXERCISE-RING-REQ	Exercise Request on Ring
EXERCISE-SPAN-FAIL	Exercise Request on Span Failed
EXERCISE-SPAN-REQ	Exercise Request on Span
EXT	Failure Detected External To The NE
EXTRA-TRAF-PREEMPT	Extra Traffic Preempted
FAILTOSW	Failure To Switch To Protection

Table 7-32 Conditions (continued)

Condition	Description
FAILTOSW-PATH	Failure To Switch To Protection - Path
FAILTOSWR	Failure To Switch To Protection - Ring
FAILTOSWS	Failure To Switch To Protection - Span
FAN	Fan Failure
FANDEGRADE	Partial Fan Failure
FE-AIS	Far End AIS
FE-DS1-MULTLOS	Far End Multiple DS1 LOS Detected On DS3
FE-DS1-NSA	Far End DS1 Equipment Failure - Non Service Affecting
FE-DS1-SA	Far End DS1 Equipment Failure - Service Affecting
FE-DS1-SNGLLOS	Far End Single DS1 LOS
FE-DS3-NSA	Far End DS3 Equipment Failure - Non Service Affecting
FE-DS3-SA	Far End DS3 Equipment Failure - Service Affecting
FE-EQPT-NSA	Far End Common Equipment Failure - Non Service Affecting
FE-EXERCISING-RING	Far End Exercising Ring
FE-EXERCISING-SPAN	Far End Exercising Span
FE-FRCDWKSWPR-RING	Far End Working Facility Forced To Switch To Protection - Ring
FE-FRCDWKSWPR-SPAN	Far End Working Facility Forced To Switch To Protection - Span
FE-IDLE	Far End IDLE
FE-LOCKOUTOFPR-SPAN	Far End Lockout Of Protection - Span
FE-LOF	Far End LOF
FE-LOS	Far End LOS
FE-MANWKSWPR-RING	Far End Manual Switch Of Working Facility To Protection - Ring
FE-MANWKSWPR-SPAN	Far End Manual Switch Of Working Facility To Protection - Span
FEC-MISM	FEC Mismatch
FEPRLF	Far End Protection Line Failure
FORCED-REQ	Forced Switch Request
FORCED-REQ-RING	Forced Switch Request On Ring
FORCED-REQ-SPAN	Forced Switch Request On Span

Table 7-32 Conditions (continued)

Condition	Description
FRCDSWTOINT	Forced Switch To Internal Clock
FRCDSWTOPRI	Forced Switch To Primary Reference
FRCDSWTOSEC	Forced Switch To Second Reference
FRCDSWTOTHIRD	Forced Switch To Third Reference
FRNGSYNC	Free Running Synchronization Mode
FSTSYNC	Fast Start Synchronization Mode
FULLPASSTHR-BI	Bidirectional Full Pass Through Is Active
GCC-EOC	GCC Termination Failure
GE-OOSYNC	GigaBit Ethernet Out of Sync
HI-LASERBIAS	Equipment High Laser Bias
HI-RXPOWER	Equipment High Rx power
HI-TXPOWER	Equipment High Tx power
HIBATVG	High Volt
HITEMP	High Temperature
HLDOVRSYNC	Holdover Synchronization Mode
I-HITEMP	Industrial High Temperature
IMPROPRMVL	Improper Removal
INC-GFP-OUTOFFRAME	Out Of Frame Detected by GFP Receiver
INC-GFP-SIGLOSS	Client Signal Loss Frames Detected by GFP Receiver
INC-ISD	DS3 Idle Condition
INC-SIGLOSS	Incoming Signal Loss on Fibre Channel Interface
INC-SYNCLLOSS	Incoming Synchronization Loss on Fibre Channel Interface
INC_GFP_SYNCLOSS	Client Synchronization Loss Frames Detected by GFP Receiver
INHSWPR	Inhibit Switch To Protect Request On Equipment
INHSWWKG	Inhibit Switch To Working Request On Equipment
INTRUSION-PSWD	Security Intrusion Attempt Detected - See Audit Log
INVMACADR	Invalid MAC Address
IOSCFGCOPY	Ios Config Copy In Progress
KB-PASSTHR	K Bytes Pass Through Is Active
KBYTE-APS-CHANNEL-FAILURE	Kbyte Channel Failure

Table 7-32 Conditions (continued)

Condition	Description
LAN-POL-REV	Lan Connection Polarity Reversed
LASEREOL	Laser Approaching End of Life
LKOUTPR-S	Lockout Of Protection - Span
LMP-HELLODOWN	LMP Hello FSM to Control Channel down
LMP-NDFAIL	LMP Neighbor Discovery has failed
LO-RXPOWER	Equipment Low Rx power
LO-TXPOWER	Equipment Low Tx power
LOA	Loss of Alignment
LOC	Loss of Channel
LOCKOUT-REQ	Lockout Switch Request On Facility or Equipment
LOCKOUT-REQ-RING	Lockout Switch Request On Ring
LOF	Loss Of Frame
LOM	Loss of Multi-Frame
LOP-P	Loss Of Pointer - Path
LOP-V	Loss Of Pointer - VT
LOS	Loss Of Signal
LPBKCRS	Cross-connect Loopback
LPBKDS1FEAC	DS1 Loopback Due To FEAC Command
LPBKDS1FEAC-CMD	DS1 Loopback Command Sent To Far End
LPBKDS3FEAC	DS3 Loopback Due To FEAC Command
LPBKDS3FEAC-CMD	DS3 Loopback Command Sent To Far End
LPBKFACILITY	Facility Loopback
LPBKTERMINAL	Terminal Loopback
LWBATVG	Low Volt
MAN-REQ	Manual Switch Request
MANRESET	Manual System Reset
MANSWTOINT	Manual Switch To Internal Clock
MANSWTOPRI	Manual Switch To Primary Reference
MANSWTOSEC	Manual Switch To Second Reference
MANSWTOTHIRD	Manual Switch To Third Reference
MANUAL-REQ-RING	Manual Switch Request On Ring

Table 7-32 Conditions (continued)

Condition	Description
MANUAL-REQ-SPAN	Manual Switch Request On Span
MEA	Mismatch Of Equipment And Attributes
MEM-GONE	Free Memory On Card Near Zero
MEM-LOW	Free Memory On Card Very Low
MFGMEM	Manufacturing Data Memory (EEPROM Failure)
NO-CONFIG	No Startup Config
NTWTPINC	Network Topology Incomplete
OCHNC-ACTIV-FAIL	Optical Channel Activation Failure
OCHNC-DEACTIV-FAIL	Optical Channel De-Activation Failure
OCHNC-FAIL	Optical Channel Connection Failure
OCHNC-INC	Optical Channel Incomplete
ODUK-AIS-PM	ODUk: Alarm Indication Signal
ODUK-BDI-PM	ODUk: PM Backward Defect Indication
ODUK-LCK-PM	ODUk: Locked Defect - PM
ODUK-OCI-PM	ODUk: Open Connection Indication
ODUK-SD-PM	ODUk: Signal Degrade
ODUK-SF-PM	ODUk: Signal Failure
ODUK-TIM-PM	ODUk: Trail Trace Identifier Mismatch
OOU-TPT	Out of Use - Transport Failure
OPTNTWMIS	Optical Network Type Mismatch
OTUK-AIS	OTUk: Alarm Indication Signal
OTUK-BDI	OTUk: Backward Defect Indication
OTUK-LOF	OTUk: Loss Of Frame
OTUK-SD	OTUk: Signal Degrade
OTUK-SF	OTUk: Signal Failure
OTUK-TIM	OTUk: Trail Trace Identifier Mismatch
OUT-OF-SYNC	8B10B Out of Sync
PDI-P	Payload Defect Indication - Path
PEER-NORESPONSE	Peer Card Not Responding
PLM-P	Payload Label Mismatch - Path
PLM-V	Signal Label Mismatch Failure - Payload Label Mismatch - VT

Table 7-32 Conditions (continued)

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

Table 7-32 Conditions (continued)

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

Table 7-32 Conditions (continued)

Condition	Description
TRMT	Transmit Failure
TRMT-MISS	Facility Termination Equipment - Transmitter Missing
TUNDERRUN	Ether tx underrun
TX-AIS	Alarm Indication Signal in TX
TX-RAI	Remote Alarm Indication in TX
UNC-WORD	FEC Uncorrected Word
UNEQ-P	Unequipped - Path
UNEQ-V	Signal Label Mismatch Failure - Unequipped VT
VCG-DEG	VCAT Group Degraded
VCG-DOWN	VCAT Group Down
WKSWPR	Switched To Protection
WTR	Wait To Restore
WVL-MISMATCH	Equipment Wavelength Mismatch

7.3 Errors

Errors may be generated by any command or command response message. You can find errors listed by error code in [Table 7-33 on page 7-27](#). The format of an error message is as follows:

```
SID DATE TIME
M CTAG DENY
<ERRCDE>
/* <ERRMSG> */
;
```

7.3.1 Errors Listed by Error Code

Error Code SONET Error Messages

Table 7-33 Errors

Error Code	Error Message
ENEQ	At Least One Equipment Is Not Plugged
	Communication Failed
	Control Not Provisioned
	EnvControl IF Is Not Found
	Environmental Control Interface Not Found

Table 7-33 Errors (continued)

Error Code	Error Message
	Equipment Must Be Present
	Equipment Not Found
	Equipment Not Present
	Equipment Not Provisioned
	Internal Communication Error
	No standby present
	No standby provisioned
	Not Equipped
	Sensor IF Is Not Found
	Sensor Interface Not Found
	Standby not in valid state, please wait
IBEX	Extra Datablock
	Extra parameters
	Invalid AID Block. Extra Datablock.
	Invalid Payload Block. Extra Datablock.
ICNV	Cannot Set DCC When G709 Is Enabled
ICNV (continued)	Equipment Does Not Match Request
	Equipment In Use
	Invalid Command
	Operation Not Supported By This Card
	PM Threshold Type Not Supported
	PM Type Not Supported
	Performance Monitoring Type Not Supported
	Threshold Type Not Supported
	Trace Not Supported On Protect Trunk Port
IDMS	Data Missing
	Loopback Type Missing
	Missing Internal Data
IDNC	Invalid Data
	Invalid PST Value
	Invalid SST Value

Table 7-33 Errors (continued)

Error Code	Error Message
	PRI source cannot be INTERNAL when SEC source is not INTERNAL
	PRI source cannot be INTERNAL when THIRD is not INTERNAL
	Primary Source Cannot Be INTERNAL When Secondary Source Is Not INTERNAL
	Primary Source Cannot Be INTERNAL When Third Source Is Not INTERNAL
	SEC source cannot be INTERNAL when THIRD is not INTERNAL
	Secondary Source Cannot Be INTERNAL When Third Source Is Not INTERNAL
	Third source must be INTERNAL
IDNV	2F-BLSR Architecture Does Not Permit Manual/Forced Span Switching
	AUTO ALS Mode Not Allowed With Digital Wrapper Disabled
	AUTO Trace Mode Not Allowed
	Alarm Message Must Be Enclosed Within a Pair of Quotes
	Alarm Message Required for MISC
	At least an XC10G XC card is needed for this equipment type
	Cannot Access DCC
	Cannot Change Protection Type
IDNV (continued)	Cannot Edit NAME When Regeneration Group Not Present
	CMDMDE Only Applicable when Creating/Deleting Protection Group
	Command Not Valid On Protect Card
	Configuration Does Not Support AUTO ALS Mode
	DCC Not Supported In Transparent Term Mode
	DCC is in used
	Description Cannot Have More Than 64 Characters
	Description cannot be more than 32 characters
	Edit FMT on an Invalid Card
	Edit FMT with an Invalid Data
	Edit Line Code Failed
	Edit Line Code on an Invalid Card
	Equipment Does Not Support CALOPWR
	Equipment Does Not Support EXPWLEN
	Equipment Does Not Support Payload Type

Table 7-33 Errors (continued)

Error Code	Error Message
	Equipment Does Not Support RDIRN
	Equipment Does Not Support Regeneration Group
	Equipment Does Not Support VOAPWR
	Equipment Incompatible For Regeneration Group
	Frame Format Contains Invalid Data
	Frame Format Not Supported On Equipment
	GCC Not Supported On CLNT Port
	High Threshold Should Be Lower Than Extreme High
	Incompatible Equipment Type For Protection
	Incompatible Equipment Type
	Incompatible Protect Slot For Protection
	Interval Out Of Range
	Invalid AID For PCA Cross-Connection
	Invalid Alarm Message
	Invalid Data For 2F-BLSR
	Invalid Drop Path
IDNV (continued)	Invalid Equipment Type
	Invalid Ethernet Frame Size
	Invalid Expected Path Trace Message
	Invalid Holdoff Timer Value
	Invalid Log Name
	Invalid MONLEV Value
	Invalid MONTYPE Value
	Invalid Mac Address
	Invalid Notification Code
	Invalid PM Interval
	Invalid Peer Id
	Invalid Protect Group Identifier
	Invalid Protid
	Invalid Recovery Pulse Width
	Invalid Reference

Table 7-33 Errors (continued)

Error Code	Error Message
	Invalid Regeneration Group Configuration
	Invalid Report Interval
	Invalid Start Time
	Invalid Switch Type For BLSR
	Invalid TAP Number
	Invalid TXCOUNT Or RXCOUNT
	Invalid Threshold Value Ordering
	Invalid Time Offset
	Invalid Trace Level
	Invalid User Name
	Invalid area id, format is nnn.nnn.nnn.nnn
	J0 Section Trace Not Supported In Transparent Term Mode
	Keyword All Not Allowed
	Line Code Not Supported
	Low Threshold Should Be Greater Than Extreme Low
	Multiple AIDs Not Allowed
IDNV (continued)	Multiple PROTID Not valid
	Multiple Protection Group Card Slot Identifiers Not Allowed
	Multiple References Not Allowed
	Must Provide PROTID for Adding Working Modules
	Null Userid Or Range In Userid List Not Allowed
	Number Of Reports Is Negative
	Only CRS_STS is not supported
	PRIVLVL Not Allowed When PAGE = 0
	PRIVLVL Not Allowed Without PAGE, PCND, or TMOUT
	PRIVLVL Required With PAGE, PCND, Or TMOUT
	Parameter Not Supported By Payload Type
	Parameter Not Supported By This Optical Node Type
	Parameter Not Supported On Protect Trunk Port
	Payload Type Does Not Support AUTO ALS Mode
	Payload Type Does Not Support DCC

Table 7-33 Errors (continued)

Error Code	Error Message
	Payload Type Does Not Support OOS-AINS State
	Payload Type Does Not Support OTN/FEC
	Payload Type Not Supported
	Protect Card Does Not Support Protection Type
	Protect Slot Not Provisioned
	Protection Group Card Slot Identifier Field Required
	Protection Group Does Not Exist
	Protection Group Name Exceeds Maximum Length
	Regeneration Group Name Exceeds Maximum Length
	Ring Lockout BLSR Switching Is Not Supported
	SDCC is in used
	Span Lockout of Working on BLSR Switching Is Not Supported
	Switch Type Is Not Allowed On 1+1
	Tap Out Of Range
	Term Mode Does Not Support Synchronization/Timing Parameters
	Threshold Increment Invalid
IDNV (continued)	Threshold Value Out Of Range
	Trace Level Not Supported By Client Port
	Trace Level Required
	Trace Not Supported In Transparent Term Mode
	Transmitted Path Trace Message not supported
	Transponder Does Not Support Synchronization/Timing Parameters
	Unsupported Or Incompatible Termination Mode
	VOA Out Of Range
	Value Or Threshold Read Only
IDRG	Difference Value Range Error
	Invalid DURAL Value
	Invalid MXINV Value
	Invalid MXINV or DURAL Value
	Invalid PAGE Value
	Invalid PAGE or PCND Value

Table 7-33 Errors (continued)

Error Code	Error Message
	Invalid PCND Value
	Invalid PINT Value
	Invalid PJMON Value
	Invalid POLD Value
	Invalid TMOUT Value
	Invalid Threshold Value
	Invalid UOUT Value
	Invalid Watermark Value
	PJMON Out Of Range
IIAC	AID Does Not Match with Requested BLSR Path Type
	AID PARSE ERROR
	ALL, Ranging and Grouping Are Not Supported for Hard Reset
	ALL, Ranging and Grouping Are Not Supported
	Aid validation failed
	BLSR Time Slot Mismatch
	Bad Ring Id
IIAC (continued)	CCT=1WAY Not Allowed For The Card
	Can Not Create Schedule On Protect Card
	Cannot Access One Plus One Protect Line
	Cannot Make Changes To Protect Card
	Cannot make changes to protect card
	Cross-Connection Cannot Overlap PCA Boundary
	Cross-Connection Cannot Use GIGE Ports When In Transponder Mode
	Cross-connection PathWidth Not Supported by Card
	DS1 Out of Range
	EQPT Prot AID parse failed
	Equipment Can Not Be Provisioned On Low Speed Slot
	Equipment Does Not Match Request
	Equipment Does Not Match Request
	Expected Trace Not Supported On This Card Type
	Expected Trace String Exceeds Max Length (62)

Table 7-33 Errors (continued)

Error Code	Error Message
	Expected Trace String Exceeds Maximum Length
	FAC parse failed
	Incoming Trace Not Supported On This Card Type
	Incorrect Card Type
	Input, Invalid Access
	Invalid AID
	Invalid DS1 AID
	Invalid FROM= AID
	Invalid G1000 Facility Port
	Invalid Month Or Day
	Invalid Node Side
	Invalid NodeId
	Invalid Operation On Drop AID
	Invalid PJMON Value
	Invalid PM Direction parameter
	Invalid Protect AID Or Working AID
IIAC (continued)	Invalid Protect AID or Working AID
	Invalid Protect AID
	Invalid RTO AID
	Invalid Reference
	Invalid RingId
	Invalid Source AID
	Invalid Source/Destination AID Count For Cross-Connection Type
	Invalid TAP
	Invalid TO= AID
	Invalid TPORT AID
	Invalid Time
	Invalid VCG Member Number
	Invalid Year
	Invalid fac-n-m input
	J1 Trace Not Supported On This Card

Table 7-33 Errors (continued)

Error Code	Error Message
	List AID Not Allowed For ALL AID
	List Or All AID Not Supported
	Loopback type mismatch
	LpbkType Does Not Match
	Multiple AIDs Not Supported
	Multiple Destination AID Exceeds Limit
	Multiple Destinations Not Supported By Cross-Connection
	Multiple Source AID Exceeds Limit
	Multiple TAP AIDs Not Supported
	Multiple AIDs Not Allowed
	No TPORT With ONE-PORT-BI TRANS Mode
	No TPORT With Removing TRANS Mode
	Not Allowed On 1+1 Protect Line
	Not Allowed On BLSR Protect Line
	Optional AIDs Are Not Supported
	Ranging and Grouping Are Not Supported for Soft Reset
IIAC (continued)	RingId Does Not Match with AID Number
	TPORT Must Use The Same Slot As The Aid
	TPORT Supports Only A Single AID
	Trace Mode Not Supported On This Card Type
	Trace Not Supported For Current Configuration
	Trace Not Supported On This Card Type
	Trace String Exceeds Maximum Length
	UPSR Cross-Connections Not Allowed For The Facility Of Data Card
	Use Of TPORT Argument Requires Use Of TRANS
IICM	Command not implemented yet...
	Command not supported in this release
	Input, Invalid Command
	Input, Invalid MOD1
	Input, Invalid MOD2
	Input, Invalid MOD2

Table 7-33 Errors (continued)

Error Code	Error Message
	Input, Invalid VERB
IICT	Invalid Correlation Tag
IIDT	'%xx'Encoding Error In FTP URL Parsing
	0 sec revertive time not supported
	2F-BLSR Does Not Support SRVRTV/SRVTM/EASTPROT/WESTPROT Parameters
	AUTO trace mode not supported
	Can Not Delete A Schedule Which Does Not Exist
	Cannot Activate To Older Software
	Cannot Add And Remove Drops Together
	Cannot Revert From R2 To R1
	Cannot Revert To Newer Software
	Command Already In Progress
	DEST Incompatible With RFR Type
	DEST Incompatible With SWDL Type
	DEST Required For RFBU Type
	Duplicate BLSR Working/Protect Facilities
IIDT	Duplicate DCC
	Duplicate Performance Monitoring Schedule
	Duplicate Schedule
	Error Adding New Schedule
	FRCD mode not supported
	FTTD Is Not Supported. Only Direct File Transfers Are Supported
	Facility Already in OSC Group
	File Name Missing In FTP URL
	Flash Manager Not Active
	Hostname Missing In FTP URL
	IOS Config File Too Big
	Invalid 2 Fiber Blsr Parameter
	Invalid BLSR Mode
	Invalid BLSR Protect Facility
	Invalid BLSR Working Facility

Table 7-33 Errors (continued)

Error Code	Error Message
	Invalid Data Parameter
	Invalid East work Port
	Invalid OSC Group Facility
	Invalid Phase Number
	Invalid Port In FTP URL
	Invalid Revertive Time
	Invalid Software Switch Type
	Invalid State Value
	Invalid Type Value In FTP URL. Only 'a', 'i', or 'd' Is Allowed.
	Invalid West work Port
	Invalid type= Syntax In FTP URL.
	Loopback type not supported
	Mandatory FTP URL Not Provided
	Maximum Performance Monitoring Schedule Limit Reached
	Memory Out Of Range
	Missing/Invalid Destination
IIDT (continued)	Missing/Invalid Source
	Non-IP Hostname In FTP URL
	Null Outputs In FTP URL Parsing
	Number Of Reports Is Negative
	Only MAINT STATE Supported
	Only NORM CMD_MODE Is Supported
	Only OOS PST Is Supported
	Only OVWRT of YES is Allowed For Uploads
	Only Port 21 Is Supported
	Only SWDL Is Supported For The xfertype Argument
	Only Type 'a' Is Supported In The COPY-IOSCFG FTP URL
	Only Type 'i' Is Supported In The COPY-RFILE FTP URL
	Password Missing In FTP URL
	Performance Monitoring Schedule Does Not Exist
	Port Missing In FTP URL

Table 7-33 Errors (continued)

Error Code	Error Message
	Reach Limits Of MAX Schedules Allowed. Can Not Add More
	SRC Incompatible With RFBU Type
	SRC Required For RFR Type
	SRC Required For SWDL Type
	SWDL Incompatible With RFILE-PKG Aid
	Software Activate/Revert Failed
	Software Not Available For Switch
	The URL Contains Unsafe Characters. Please Encode.
	Unknown Error Processing FTP URL.
	Unsupported Locn Value
	Username Missing In FTP URL
	ftp:// Missing In FTP URL
IIFM	Invalid AID Block. Invalid Data Format.
	Invalid Data Format
	Invalid Password
	Invalid Payload Block. Invalid Data Format.
IIFM	Invalid User ID
IIPG	Configuration Requires Transparent Termination Mode
	Equipment Payload Type Incompatible For Regeneration Group
	Payload Type Requires Transparent Termination Mode
	Transparent Termination Mode Required For Regeneration Group
IISP	Input, Garbage
IITA	GNE: Input, Invalid Target Identifier
	Input, Invalid Target Identifier
INUP	EXTRNG Configuration Is Not Supported
	General Block Unsupported
	Missing mandatory field
	NODEID Configuration Is Not Supported
	RNGID Configuration Is Not Supported
	RNGMAPAUTO Configuration Is Not Supported
	RNGWTR Configuration Is Not Supported

Table 7-33 Errors (continued)

Error Code	Error Message
IPEX	Duplicate N/V field
	Invalid Payload Block. Extra Parameters.
	Invalid Payload Block. Extra Parameters.
IPMS	Invalid AID Block. Missing Mandatory Field.
	Invalid Payload Block. Missing Mandatory Field.
	Invalid syntax
	Missing mandatory field
IPNC	Cannot Change Existing Protection Type
	Cross-connect Doesn't Have UPSR Path Selector
	Description Cannot Have More Than 64 Characters
	Invalid Flow Control Value
	Invalid Maximum Frame Size
	Invalid Parameter
	Invalid Trans Value
	Parameter Not Valid
	Parameters Are Not Consistent
IPNV	Parameters Not Compatible
	AID or Condition Must Be Specified
	Bad IP Configuration Parameter
	Bad Parameter
	Bad Reference
	Cannot Set Expected Path Trace For Source Path
	Cannot Set Expected Path Trace In Auto Mode
	Cannot Set Outgoing Path Trace For Drop Path
	Cross-Connection Does Not Have UPSR Path Selector
	Empty parameter
	Exercise Is Not Allowed On Protected Facility
	Expected Trace String Exceeds Max Length (62)
	Facility Does Not Support Montype
	Far End Loopback Type Not Supported In Current Framing Format
	Far End Performance Monitoring Values Not Supported

Table 7-33 Errors (continued)

Error Code	Error Message
	Holdoff Timer Not Supported For Non-DRI Cross-Connections
	INT Not Valid For BITS-OUT
	Internal-IP Lookup Failed
	Internal-Network Nodes Lookup Failed
	Invalid Clock Source
	Invalid Condition Type
	Invalid Default Router Address
	Invalid IIOP Port number
	Invalid IP Address
	Invalid IP Configuration Parameter
	Invalid IP Mask
	Invalid MONLEV Value
	Invalid PM register
	Invalid Parameter
	Invalid Payload Block. Empty Parameter.
	Invalid Report Interval
IPNV (continued)	Invalid SNTP Host Address
	Invalid Start Time
	Invalid Switch Command For Synchronization
	Invalid Switch Type
	Invalid Threshold Value
	Invalid why parameter
	New Source Must Be Specified
	Node Name Exceeds Maximum Length
	Number Of Reports Is Negative
	PM Not Supported
	Parameter Not Valid
	Payload Does Not Support Optics Montypes
	Primary Reference Incompatible With Timing Mode
	Protection Type Does Not Support Reversion Mode
	Reference Type Not Supported

Table 7-33 Errors (continued)

Error Code	Error Message
	SPNWTR Parameter Not Supported
	Secondary Reference Incompatible With Timing Mode
	Synchronization Source Already Defined For The Slot
	TMGREF Parameter Not Supported
	Third Reference Incompatible With Timing Mode
	Time Period Not Applicable
	Timing Mode Not Compatible
PICC	AID Required
	AID does not match this session UID
	Bad Password Toggling - New Password Same As A Prior Password
	Can't change own security level
	Can't login
	Can't logout if user not logged in
	Command Not Available To This User Level
	Command Not Available to this User Level
	Invalid User Access Privilege Value
PICC (continued)	Invalid User Identifier - Must Conform To TL1 Rules
	Invalid User Password - Must Conform To TL1 Rules
	Logout failed
	Password Must Be Changed Before Continuing
	Password Recently Changed.
	Unexpected Default Case
	Unknown CORBA Exception (Internal Error)
	Unknown User
	User Access Privilege Required
	User Already Exists
	User Identifier Exceeds Maximum Length Allowed
	User Not Authorized
	User Password Required
PIMA	Memory Out Of Range
PIUC	Cannot Delete The Logged In User

Table 7-33 Errors (continued)

Error Code	Error Message
	Cannot Remove The Last Superuser
	Unauthorized change of PID
	Unauthorized
	User Currently Logged Into Another Session
	User Is Not Superuser
	User Not Allowed To Change User Access Privilege
	User Not Allowed To Change User Password
	User Not Allowed To Disable/Enable Self
	User Not Allowed To Terminate Self
	User Not Logged In
RALB	GNE: All ENE Connections in Use
	Requested DCC In Use
RANB	GNE: No Response from ENE - IENE
RNBY	Software upgrade in progress
RRNG	I/O Slot Out Of Range
	Invalid Slot Number
RTBY	Connection In Service
	TAP Already In Use
	TAP Number In Use
RTEN	Cannot Access VT
	Cannot Change Access Mode
	Cannot Set Access Mode
	Invalid Access Mode
	Invalid STS TAP Number
	Invalid TAP AID
	Invalid TAP Mode
	Invalid TAP Number
	Invalid VT TAP Number
	Requested TAP Does Not Exist
	Requested Tap Busy
	TAP Not Found

Table 7-33 Errors (continued)

Error Code	Error Message
SAAL	Already Allowed
SAAS	Equipment Already Provisioned
SADC	GNE: ENE is down
	TAP Not Connected
SADS	Loopback Applied On Cross-connection
SAIN	Already Inhibited
SAIS	Port Already In Service
SAMS	Already In Clear Maintenance State
	Already In Force Maintenance State
	Already In Lockout Maintenance State
	Already In Manual Maintenance State
SAOP	Control Already Operated
	Control Already Released
	Control Operated In Mentry
SAOS	Port Already In OOS-AINS
	Port Already In OOS-MT
SAOS (continued)	Port Already Out Of Service
SAPR	Cannot Provision Regeneration Group When A Protection Group Is Present
SARB	GNE: All Gateways in Use
	System Memory Exhausted. Retry A Few Seconds Later
SCAT	Connection already in loopback
	Connection already in roll
	Connection already in test access
	Connection is tapped
	End Point Is Already Connected
	STS Is Already Connected
	Test Access Busy
	VT Is Already Connected
	Would exceed max number of drops
SDBE	AID Parser Failed
	Asymmetric VCG Not Supported

Table 7-33 *Errors (continued)*

Error Code	Error Message
	Bad Parameter
	Cannot Access Alarms
	Cannot Access Conditions
	Cannot Access Controls
	Cannot Access Date/Time
	Cannot Access Defaults Description
	Cannot Access Environmental Settings
	Cannot Access Equipment
	Cannot Access Facility
	Cannot Access IP Configuration
	Cannot Access Interface
	Cannot Access Node ID
	Cannot Access Node Name
	Cannot Access Object
	Cannot Access Orderwire
	Cannot Access Protection Group
SDBE (continued)	Cannot Access Protection State
	Cannot Access SNMP Ip Addr
	Cannot Access Sntp Host
	Cannot Access STS
	Cannot Access Software Version
	Cannot Access Synchronization Configuration
	Cannot Access Timezone
	Cannot Access Trace Information
	Cannot Access VT Performance Monitoring Parameters
	Cannot Access VT
	Cannot Configure SYNC
	Cannot Create 1+1 Protection Group
	Cannot Edit STS
	Cannot Get Line Information
	Cannot Get Synchronization Configuration

Table 7-33 Errors (continued)

Error Code	Error Message
	Cannot Set Date When Using SNTP
	Cannot Set Date
	Cannot Set IP Configuration
	Cannot Set Node Name
	Cannot Set Pointer Justification Monitoring Parameter (PJMON)
	Cannot Set SNTP Host Configuration
	Cannot Set Timezone
	Cannot Soft Reset System
	Cannot Switch To E2 Byte With Express Orderwire IS
	Card Type Not Supported
	DLT prg Failed
	Delete Protection Group Failed
	Equipment Not Found
	Facility Does Not Exist
	Facility Does Not Match Request
	Facility Does Not Support Mac Address
SDBE (continued)	Facility Is Not Provisioned
	Facility Not Provisioned
	File Transfer In Progress
	Get Sonet Line Info Failed
	Getting sonet sync configurations
	IOS Config Update In Progress
	IP Configuration Failed
	Incompatible Parameter Values
	Incorrect Facility Type
	Interface Does Not Exist
	Interface Does Not Support Loopback Type
	Internal Access Failed
	Internal Data Base Error
	Internal Database Error
	Invalid Command

Table 7-33 Errors (continued)

Error Code	Error Message
	Invalid Cross Connect Type For VCG
	Invalid DCC
	Invalid Mondat Format
	Invalid Montm Format
	Invalid Performance Monitoring Mode
	Invalid Protection Group
	Invalid Time Period
	Invalid Trace Mode for Card Type
	LCAS Not Supported By This Card
	Location Value Invalid
	Loopback Is Invalid
	Loopback Port In Service
	Loopback type not supported
	Mac Address Not Supported By Payload
	No such interface
	Node Name Configuration Failed
SDBE (continued)	Not a Sonet interface
	Object Not Provisioned
	Object Not Supported
	Operation Not Supported On EC1 Interface
	Operation not supported by this card
	Path Width Not Supported
	Path loopback already exists
	SNTP Configuration Failed
	STS Not Provisioned
	Synchronization Configuration Not Available
	Synchronization Status Messaging(SSM) Not Supported On EC1 Interface
	Synchronization::Sync not available
	Used Frame Format Does Not Support Synchronization Status Messaging(SSM)
	VT Not Provisioned
	Wrong Facility Type

Table 7-33 Errors (continued)

Error Code	Error Message
	Wrong Interface Type
	bind failed for sonet gen
	getActiveRefSource failed
	getRefSources failed
SDLD	Duplex Unit Locked
SDNA	Active TCC Not Ready
	Standby TCC Not Ready
SNCC	Cross connection does not exist
	Path roll does not exist
	Replace This Message When A SNCC message is needed
SNCN	Bad Quality
	Cannot Switch To Inferior Reference Source
	Clock Source Failed
	Command Not Implemented
	Cross-Connection Type Not Supported In TL1
	Invalid Clock Source
SNCN (continued)	Requested Direction Not Supported
	STS Rate Changing Not Supported
SNNS	Reference Not From Optical Card
SNOS	Cannot Change Card Wavelength With Port(s) Not In OOS State
	Cannot Change Payload With Port(s) Not In OOS State
	Cannot Change Termination Mode With Port(s) Not In OOS State
SNPR	Cannot Get Role Of Port
	Get Port Role Failed
SNVS	Already Switched To Internal Reference Source
	BLSR East Operation Already Set
	BLSR West Operation Already Set
	CCAT Cross Connect Exists
	Cannot Change Configuration When Port(s) Are Not In OOS State
	Cannot Change Payload For Protection Group
	Cannot Change Payload When Port(s) Are DCC Enabled

Table 7-33 Errors (continued)

Error Code	Error Message
	Cannot Change Payload When Port(s) Are Used As A Clock Source
	Cannot Change Termination Mode When Port(s) Are DCC Enabled
	Cannot Change Termination Mode When Port(s) Are Used As a Clock Source
	Cannot Change Termination Mode With Trace Enabled
	Cannot END an AUTO roll
	Cannot Edit Facility When Not In OOS State
	Cannot Operate Loopback In Current Cross-connection State
	Cannot Operate Loopback In Current State
	Cannot Provision Regeneration Group When A Protection Switch Operation Is Present
	Cannot Provision Regeneration Group When Equipment Has Different FEC Settings
	Cannot Provision Regeneration Group When Equipment Has Different G.709 Settings
	Cross Connect Exists
	Facility Not Part Of BLSR
	Invalid AINS Soak Time
SNVS (continued)	Invalid Admin State
	Invalid BLSR Element
	Invalid Clock Source
	Invalid Equipment State
	Invalid Transponder Provisioning
	Loopback Already In Progress
	Loopback Not In Progress
	No Switch In Progress
	No valid roll signal
	Protection Group Does Not Exist
	Protection Unit Active
	Roll condition does not exist
	Roll is not controlled by TL1
	Status, Not in Valid State
	Unable to complete roll

Table 7-33 Errors (continued)

Error Code	Error Message
	VCG Already Created
	Working Unit Already Active
	Working Unit Already Standby
SOSE	Unrecognized Message Type
SPFA	Cannot Get Current Card Status
	Protection Unit Failed Or Missing
	Status, Protection Unit Failed or Missing
SPLD	Cannot Create 1+1 Protection Group
	Cannot Delete Equipment
	Cannot Delete Filler Equipment
	Cannot Enter Filler Equipment
	Equipment In Use
	FTP Task Is Busy
	Facility Is Busy
	Protection Unit Locked
SRAC	Invalid Connection Type
	Path roll does not exist
	Requested Access Configuration is Invalid
SRCN	Already In Requested Mode
	Area already exists on lan interface
	Cannot use backbone area, lan active
	Requested Condition Already Exists
SROF	1+1 Protection Group Not Found
	1WAYMON not supported
	2F BLSR Pool Not Available
	4F BLSR EastProtect Pool Is Not Available
	4F BLSR Pool Not Available
	4F BLSR WestProtect Pool Is Not Available
	AID Listing Not Allowed
	ALS Mode Does Not Allow Laser Restart
	APC System Is Busy

Table 7-33 Errors (continued)

Error Code	Error Message
	Active Flash Not Ready
	All DCCs In Use
	BLSR In Use
	BLSR Pool Not Available
	BLSR Protect STS Path List Is Empty
	Can Not Get IOS Config Source Origin
	Cannot Access 1+1 Line
	Cannot Access 1+1 Protected Line
	Cannot Access 2 Fiber BLSR
	Cannot Access 4 Fiber BLSR East Protection
	Cannot Access 4 Fiber BLSR West Protection
	Cannot Access 4F BLSR
	Cannot Access Alarm Log
	Cannot Access BLSR 2 Wire Line
	Cannot Access BLSR 2-Wire Line
SROF (continued)	Cannot Access BLSR
	Cannot Access Cross-Connection
	Cannot Access DCC
	Cannot Access Facility
	Cannot Access PM Mode
	Cannot Access Performance Monitoring Statistics
	Cannot Access Protected Equipment
	Cannot Access Protection Group Information
	Cannot Access Protection Group Name
	Cannot Access Protection Group Reversion Information
	Cannot Access Reversion Information
	Cannot Access STS
	Cannot Access TAP
	Cannot Access Unprotected Line
	Cannot Access Unprotected Line
	Cannot Access VT

Table 7-33 Errors (continued)

Error Code	Error Message
	Cannot Add Equipment
	Cannot Add Equipment
	Cannot Change BITS Configuration When Manual Switch Exists
	Cannot Change Ethernet IP With DHCP Provisioned
	Cannot Change Ethernet IP With OSPF Provisioned
	Cannot Change Parameter When Manual Switch Exists
	Cannot Change Port State When Manual Switch Exists
	Cannot Change Synchronization Configuration When Manual Switch Exists
	Cannot Change Timing Reference When Manual Switch Exists
	Cannot Change XTC Protection Group
	Cannot Configure SYNC
	Cannot Create Cross-Connection Between Incompatible Interfaces
	Cannot Create Protection Group
	Cannot Create Protection Group with Pre-provisioned Cards when CMDMDE is FRCD
	Cannot Create TAP On Last VT
SROF (continued)	Cannot Create TAP
	Cannot Create Y cable Protection
	Cannot Delete Cross-Connection
	Cannot Delete Last Drop
	Cannot Delete Protected Equipment
	Cannot Delete Protection Group
	Cannot Delete Protection Group with Cross-Connections on Working Card when CMDMDE is FRCD
	Cannot Disable DWRAP With FEC Enabled
	Cannot Disable DWRAP With GCC Enabled
	Cannot Disable DWRAP. Orderwire Circuit Exists
	Cannot Disable DWRAP. Y-Cable Protection Exists
	Cannot Edit Ethernet IP
	Cannot Edit STS
	Cannot Enable FEC When G.709 Is Disabled
	Cannot Enable FEC With DWRAP Disabled

Table 7-33 *Errors (continued)*

Error Code	Error Message
	Cannot Modify Protect Card
	Cannot Perform ACO
	Cannot Provision Equipment
	Cannot Provision Protection Equipment
	Cannot Set ALS Mode
	Cannot Set Bidirectional Protection Group
	Cannot Set DCC When Digital Wrapper Is Enabled
	Cannot Set GCC When DWRAP Is Disabled
	Cannot Set NodeId
	Cannot Set Payload Type
	Cannot Set Protection Group Name
	Cannot Set Protection Group Revertive Behavior
	Cannot Set RingId
	Cannot Set Span Revertive Mode Unless 4-Fiber Ring
	Cannot Set Span Revertive Time In Non-revertive Mode
	Cannot Set Span Revertive Time Unless 4-Fiber Ring
SROF (continued)	Cannot Set Termination Mode
	Cannot Set Wave Length
	Cannot Switch For Specified Connection Type
	Cannot Switch For Specified Path
	Cannot Update Synchronization Reference List
	Cannot modify cross connect right now
	Cannot roll a non-TL1 circuit
	Cannot set loopback
	Command Not Supported
	Connection is already in roll
	Connection type error
	Connection type error
	Could Not Delete Protection
	Could not provision area
	Cross-Connection Creation Failed

Table 7-33 Errors (continued)

Error Code	Error Message
	Cross-Connection Does Not Exist
	Cross-connection Was Not Found
	Cross-connection deletion failed
	DCC Does Not Exist
	DCC In Use
	DCC Not In Use
	DCC Termination Is Required to Set OSPF
	DWRAP Not Enabled
	Database Is Busy
	Element Not Found
	Element not available
	Equipment Does Not Match Request
	Equipment Does Not Support 8B10B Montypes
	Equipment Does Not Support Cross-connection Loopback
	Equipment Provisioning Failed
	Ethernet IP And Default Router IP Subnets Are Different
SROF (continued)	Expected Trace Size Exceeds Trace Format Limit
	Facility Does Not Support Laser Restart
	Facility Not Protected
	Facility Not Provisioned
	Fail to add RTO
	Flash Is Busy
	Generation1 Does Not Support Given Quality Of RES
	Generic ios config upload failure message
	Get IOR Failed
	Host Not In IP Address Format
	Insufficient Path Width For Cross-Connection
	Insufficient Path Width For Test Access
	Internal Database Error
	Internal Exercise Failure
	Internal Facility Type Failure

Table 7-33 Errors (continued)

Error Code	Error Message
	Invalid AID
	Invalid ALS Recovery Interval
	Invalid ALS Recovery Pulse Width
	Invalid Control Type (CONTTYPE) For AID
	Invalid Cross Connect Type For VCG
	Invalid Cross-Connection Path
	Invalid Cross-Connection Type For Drops
	Invalid Drop Path
	Invalid FTP Username/Password
	Invalid Loopback Provision
	Invalid Operation For Connection Type
	Invalid Operation For Specified Path
	Invalid Path
	Invalid Protection Group
	Invalid Protection Switch Operation
	Invalid RMODE
SROF (continued)	Invalid SYNC entity
	Invalid State When Loopback Present
	Invalid Subnet Mask
	Invalid Synchronization Source
	Invalid UPSR Path
	Invalid type for this Cross connection
	Is Not 1+1 Element Type
	J0 Section Trace Level Not Supported By 10GE Payload Type
	Laser Was Not Shutdown.Cannot Restart Laser
	Location Incompatible With Loopback Type
	Loopback Not Allowed On Drop Path
	Loopback Type Does Not Match
	MIC Cards Cannot Be Reset
	Maximum Drop Limit Reached
	Maximum User Limit Reached

Table 7-33 Errors (continued)

Error Code	Error Message
	Maximum VT Cross Connection Limit Reached
	No Path To Regulate
	No Start-Up IOS Config
	No clock and data copy information from Line cards and CXC cards
	Node::General not available
	Node::NetworkConfig not available
	Non Revertive Mode Does Not Allow to Set RVTM
	Not Enough Path Width For TACC
	Number of Drops Exceed Allowable
	One Plus One Line pool not available
	Operate Alarm Cutoff Failed
	Operation Not Supported
	Operation not Valid for Connection Type
	Operation not Valid for Path Specified
	OspfTopology::OSPFTopo not available
	Parameter Not Supported When DWRAP Is Enabled
SROF (continued)	Path Already In Use
	Path Specified Is Not Valid
	Path Used For Test Access
	Payload Type Does Not Support Trace
	Peer Equipment Attributes Do Not Match
	Peer Equipment Type Does Not Match
	Peer Facility Has Loopback
	Peer Facility In Use
	Peer Payload Type Does Not Match
	Peer Termination Mode Does Not Match
	Pool Does Not Exist
	Pool not available
	Protect Port Active
	Protection Group Does Not Exist
	Protection Switching Failed

Table 7-33 Errors (continued)

Error Code	Error Message
	Protection Type Mismatch
	Protection Type Not Compatible With Facility
	Provisioning Rules Failed
	ROLL TO path is already in the cross-connection
	Regeneration Group Already Exist
	Regeneration Group Does Not Exist
	Requested Operation Failed
	Requested Tap Busy
	Ring Reversion Failed
	SDBER Out Of Range
	SDCC creation failed
	SFBER Out Of Range
	SSet PRG Reversion Failed
	STS Does Not Exist
	STS Does Not Have TAP
	STS Path Width Does Not Match
SROF (continued)	STS Path Width Does Not Match
	STS Rates Do Not Match
	Section Termination Mode Not Supported
	Security::General not available
	Set PRG Bidirectional Failed
	Set PRG Name Failed
	Software Activation Failed
	Software Download Failed
	Software Error
	Software Reversion Failed
	Span Reversion Failed
	Specified Operation Is Not Valid
	Standby Flash Not Ready
	Sync Reference List Update Failed
	Synchronization/Timing Parameters Not Supported With DWRAP Enabled

Table 7-33 Errors (continued)

Error Code	Error Message
	TAP connected
	TTI Trace Not Allowed With G709 Disabled
	Tap Not Provisioned
	Test Access Active
	Test Access Not Supported On Card
	Trace Format Not Supported By J0 Section Trace
	Trace Format Not Supported By TTI Section Trace
	Trace Message Size Exceeds Trace Format Limit
	Trace Mode Incompatible With Termination Mode
	Trace Mode Not Supported
	UPSR Needed To Change Revertive Behavior
	Unable to cancel roll
	Unknown Internal Error
	Unprotected Line pool not available
	Unprovisioning Rules Failed
	Unsupported BLSR STS Path Operation
SROF (continued)	Unsupported Command Type
	Unsupported Element Type
	VCG Does Not Exist
	VT Cross-Connection Does Not Exist
	VT Does Not Exist
	VT Does Not Have TAP
	VT Path Width Does Not Match
	Wavelength Value Not Supported
	Working/Peer Card In Use
	Wrong Interface Type
	XC Card Does Not Support VT Cross-Connection
	XC Card Not Present
	XCVXL Card Not Present
	Y-Cable Protection Does Not Exist
SRQN	BLSR Creation Failed

Table 7-33 Errors (continued)

Error Code	Error Message
	BLSR Deletion Failed
	BLSR Does Not Exist
	BLSR Editing Failed
	Cannot Create Automatic Links
	Cannot Edit SENDDUS On Protect Port
	Cannot Edit SYNCMSG On Protect Port
	DCC Not Allowed On Protect Port
	DCC not enabled
	Data Access Request Failed
	Invalid Mode For Current Configuration
	Invalid Request
	OSC Group Already Exists
	OSC Group Does Not Exist
	Path loopback already exists
	Protect Card Does Not Support Electrical Protection
	Protect Card Does Not Support Protection Type
SRQN (continued)	STS Cross-Connection Does Not Exist
	VT Cross-Connection Does Not Exist
SRTN	TAP Not Found
SSRD	Manual Switch Cannot Override Forced Switch
	Switch Request Denied
SSRE	GNE: ENE Connection Closed
	GNE: System Resources Exceeded - FD
	GNE: System Resources Exceeded - Lock
	GNE: System Resources Exceeded - Thread
	Memory Resources Exceeded
	Memory resource denial
SWFA	Status, Working Unit Failed or Missing
	Working Unit Failed Or Missing
SWLD	Working Unit Locked

7.4 Echo

In order to improve telnet functionality for automated systems, the echo function has been turned off since ONS 15454 Release 3.0. This change is transparent to users running standard UNIX-compliant telnet clients; however, PC users may need to change their client setup to enable “local echo.” This is normally accomplished by a pull-down menu or a preference attribute.

To test the local echo on your PC client, use the RTRV-HDR command. If you receive a response but no data, set local echo ON. Cisco recommends that you close any windows containing sensitive information after exiting a TL1 session.

