



CHAPTER 26

Conditions

This chapter lists the conditions for TL1 commands and autonomous messages for the Cisco ONS 15454 SDH, Cisco ONS 15454 M2, and Cisco ONS 15454 M6, Release 9.3. These conditions are listed below.

Conditions include any problem detected on an Cisco ONS 15454 SDH, Cisco ONS 15454 M2, or Cisco ONS 15454 M6 shelf. They can include standing or transient notifications. A snapshot of all current raised, standing conditions on the network, node, or card can be retrieved in the Cisco Transport Controller (CTC) Conditions window or using the RTRV-COND commands. (In addition, some but not all cleared conditions are also found in the History tab in CTC.)



Note

The Condition that apply to Cisco ONS 15454 SDH also applies to Cisco ONS 15454 M2 and Cisco ONS 15454 M6.

Table 26-1 **Conditions**

Condition	Description	Cisco ONS 15454 SDH
AIS	Alarm Indication Signal	Y
AIS-L	Alarm Indication Signal—Line	Y
ALS	Automatic Laser Shutdown	Y
AMPLI-INIT	Optical Amplifier Initialization	Y
APC-DISABLED	Automatic Power Control Disabled	Y
APC-FAIL	Automatic Power Control Failure	Y
APSB	Byte Failure	Y
APSC-IMP	Improper Automatic Protection Switch (APS) Code	Y
APSCDFLTK	Default K Byte	Y
APSCINCON	Inconsistent APS Code	Y
APSCM	Protection Switching Channel Match Failure	Y
APSCNMIS	Node ID Mismatch	Y
APSIMP	APS Invalid Mode	Y
APSM	APS Mode Mismatch	Y

Table 26-1 Conditions

Condition	Description	Cisco ONS 15454 SDH
AS-CMD	Alarms Suppressed By User Command	Y
AS-MT	Alarms Suppressed For Maintenance	Y
AU-AIS	AIS—Administration Unit—Alarm Indication Signal	Y
AU-LOF	LOF—Administration Unit—Loss of Multi Frame	Y
AU-LOP	LOP—Administration Unit—Loss of Pointer	Y
AUD-LOG-LOSS	Audit Log 100 Percent Full—Oldest records will be lost	Y
AUD-LOG-LOW	Audit Log 80 Percent Full	Y
AUTOLSROFF	Automatic Laser Shutoff Due To High Temperature	Y
AUTORESET	Automatic System Reset	Y
AUTOSW-AIS-SNCP	Automatic SNCP Switch caused by AIS	Y
AUTOSW-LOP-SNCP	Automatic SNCP Switch Caused By LOP	Y
AUTOSW-PDI-SNCP	Automatic SNCP Switch Caused By PDI	Y
AUTOSW-SDBER-SNCP	Automatic SNCP Switch Caused By SDBER	Y
AUTOSW-SFBER-SNCP	Automatic SNCP Switch Caused By SFBER	Y
AUTOSW-UNEQ-SNCP	Automatic SNCP Switch Caused By UNEQ	Y
AWG-DEG	AWG Temperature Degrade	Y
AWG-FAIL	AWG Temperature Failure	Y
AWG-OVERTEMP	AWG Over-Temperature	Y
AWG-WARM-UP	AWG Warm Up	Y
BAT-FAIL	Battery Failure	Y
BAT-HGH-VLT	High Volt	Y
BAT-LOW-VLT	Low Volt	Y
BKUPMEMP	Primary Non-Volatile Backup Memory Failure	Y
CARLOSS	Carrier Loss On The LAN	Y
CASETEMP-DEG	Case Temperature Degrade	Y
CKTDOWN	Signaling unable to set up circuit	Y
CLDRESTART	Cold Restart	Y

Table 26-1 Conditions

Condition	Description	Cisco ONS 15454 SDH
COMIOXC	IO Slot To XCON Communication Failure	Y
COMM-FAIL	Plug-in Module Communication Failure	Y
CONTBUS-A-18	TCC A To DCC A Processor Communication Failure	Y
CONTBUS-B-18	TCC B To DCC B Processor Communication Failure	Y
CONTBUS_A	Controller A To Shelf Slot Communication Failure	Y
CONTBUS_B	Controller B To Shelf Slot Communication Failure	Y
CTNEQPT-MISMA TCH	Connection Equipment Mismatch	Y
CTNEQPT-PBPRO T	Interconnection Equipment Failure—Protect XC Payload Bus	Y
CTNEQPT-PBWORK	Interconnection Equipment Failure—Working XC Payload Bus	Y
DATAFLT	Software Fault—Data Integrity Fault	Y
DBOSYNC	Standby Database Out of Sync	Y
DS3-MISM	DS3 Frame Format Mismatch	Y
DSP-COMM-FAIL	DSP Communication Failure	Y
DSP-FAIL	DSP Failure	Y
DUP-IPADDR	IP address already in use within the same DCC Area	Y
DUP-NODENAME	Node name already in use within the same DCC area	Y
E-W-MISMATCH	Both Ends Of Fiber Provisioned As East Or Both As West	Y
E3-ISD	E3 Idle Condition	Y
EHIBATVG	Extreme High Volt	Y
ELWBATVG	Extreme Low Volt	Y
EOC	RS-DCC Termination Failure	Y
EQPT	Equipment Failure	Y
EQPT-MISS	Replaceable Equipment/Unit is Missing	Y
ERFI-P-CONN	Enhanced Remote Failure Indication—Path—Connectivity	Y
ERFI-P-PAYLD	Enhanced Remote Failure Indication—Path—Payload	Y
ERFI-P-SRVR	Enhanced Remote Failure Indication—Path—Server	Y

Table 26-1 Conditions

Condition	Description	Cisco ONS 15454 SDH
ERROR-CONFIG	Error in Startup Configuration	Y
ETH-LINKLOSS	Rear Panel Ethernet Link Removed	Y
EXCCOL	Excess Collisions On The LAN	Y
EXERCISE-RING-FAIL	Exercise Request on Ring Failed	Y
EXERCISE-RING-REQ	Exercise Request on Ring	Y
EXERCISE-SPAN-FAIL	Exercise Request on Span Failed	Y
EXERCISE-SPAN-REQ	Exercise Request on Span	Y
EXT	Failure Detected External To The NE	Y
EXTRA-TRAF-PR EEMPT	Extra Traffic Preempted	Y
FAILTOSW	Failure To Switch To Protection	Y
FAILTOSW-HO	Failure To Switch To Protection—High Order Path	Y
FAILTOSW-LO	Failure To Switch To Protection—Low Order Path	Y
FAILTOSWR	Failure To Switch To Protection—Ring	Y
FAILTOSWS	Failure To Switch To Protection—Span	Y
FAN	Fan Failure	Y
FANDEGRADE	Partial Fan Failure	Y
FE-AIS	Far End AIS	Y
FE-DS1-MULTLOS	Far End Multiple DS1 LOS Detected On DS3	Y
FE-DS1-NSA	Far End DS1 Equipment Failure—Non Service Affecting	Y
FE-DS1-SA	Far End DS1 Equipment Failure—Service Affecting	Y
FE-DS1-SNGLLOS	Far End Single DS1 LOS	Y
FE-DS3-NSA	Far End DS3 Equipment Failure—Non Service Affecting	Y
FE-DS3-SA	Far End DS3 Equipment Failure—Service Affecting	Y
FE-E1-MULTLOS	Far end multiple E1 LOS detected on E3	Y
FE-E1-NSA	Far end E1 eqpt fail non service affecting	Y
FE-E1-SA	Far end E1 eqpt fail service affecting	Y
FE-E1-SNGLLOS	Far end signal E1 LOS	Y

Table 26-1 Conditions

Condition	Description	Cisco ONS 15454 SDH
FE-E3-NSA	Far end E3 eqpt fail non service affecting	Y
FE-E3-SA	Far end E3 eqpt fail service affecting	Y
FE-EQPT-NSA	Far End Common Equipment Failure—Non Service Affecting	Y
FE-EXERCISING-RING	Far End Exercising Ring	Y
FE-EXERCISING-SPAN	Far End Exercising Span	Y
FE-FRCDWKSWP R-RING	Far End Working Facility Forced To Switch To Protection—Ring	Y
FE-FRCDWKSWP R-SPAN	Far End Working Facility Forced To Switch To Protection—Span	Y
FE-IDLE	Far End IDLE	Y
FE-LOCKOUTOFP R-ALL	Far End Lockout Of Protection—All Spans	Y
FE-LOCKOUTOFP R-RING	Far End Lockout Of Protection—Ring	Y
FE-LOCKOUTOFP R-SPAN	Far End Lockout Of Protection—Span	Y
FE-LOCKOUTOF WK-RING	Far End Lockout Of Working—Ring	Y
FE-LOCKOUTOF WK-SPAN	Far End Lockout Of Working—Span	Y
FE-LOF	Far End LOF	Y
FE-LOS	Far End LOS	Y
FE-MANWKSWPR -RING	Far End Manual Switch Of Working Facility To Protection—Ring	Y
FE-MANWKSWPR -SPAN	Far End Manual Switch Of Working Facility To Protection—Span	Y
FE-SDPRLF	APS Channel—Far End Protection Line Signal Degrade	Y
FEC-MISM	FEC Mismatch	Y
FEPRLF	Far End Protection Line Failure	Y
FIBERTEMP-DEG	Fiber Temperature Degrade	Y
FORCED-REQ	Forced Switch Request	Y
FORCED-REQ-RING	Forced Switch Request On Ring	Y
FORCED-REQ-SPAN	Forced Switch Request On Span	Y

Table 26-1 Conditions

Condition	Description	Cisco ONS 15454 SDH
FRCDSWTOINT	Forced Switch To Internal Clock	Y
FRCDSWTOPRI	Forced Switch To Primary Reference	Y
FRCDSWTOSEC	Forced Switch To Second Reference	Y
FRCDSWTOTHIRD	Forced Switch To Third Reference	Y
FRNGSYNC	Free Running Synchronization Mode	Y
FSTSYNC	Fast Start Synchronization Mode	Y
FULLPASSTHR-BI	Bidirectional Full Pass Through Is Active	Y
GAIN-HDEG	Optical Amplifier Gain Degrade High	Y
GAIN-HFAIL	Optical Amplifier Gain Failure High	Y
GAIN-LDEG	Optical Amplifier Gain Degrade Low	Y
GAIN-LFAIL	Optical Amplifier Gain Failure Low	Y
GCC-EOC	GCC Termination Failure	Y
GE-OOSYNC	Gigabit Ethernet Out of Sync	Y
HI-LASERBIAS	Equipment High Laser Bias	Y
HI-RXPOWER	Equipment High Receive Power	Y
HI-TXPOWER	Equipment High Transmit Power	Y
HITEMP	High Temperature	Y
HLDOVRSYNC	Holdover Synchronization Mode	Y
HP-RFI	Remote Failure Indication—High Order—Remote Failure/Alarm Indication	Y
HP-TIM	High Order—Trace Identifier Mismatch Failure	Y
HP-UNEQ	Signal Label Mismatch Failure (SLMF)—Unequipped High Order—Path Unequipped	Y
I-HITEMP	Industrial High Temperature	Y
IMPROPRMVL	Improper Removal	Y
INC-GFP-OUTOFFRAME	Out Of Frame Detected by Generic Framing Protocol (GFP) Receiver	Y
INC-GFP-SIGLOSS	Client Signal Loss Frames Detected by GFP Receiver	Y
INC-ISD	DS3 Idle Condition	Y
INC-SIGLOSS	Incoming Signal Loss on Fibre Channel Interface	Y
INC-SYNCLLOSS	Incoming Synchronization Loss on Fibre Channel Interface	Y

Table 26-1 Conditions

Condition	Description	Cisco ONS 15454 SDH
INC_GFP_SYNCL OSS	Client Synchronization Loss Frames Detected by GFP Receiver	Y
INHSWPR	Inhibit Switch To Protect Request On Equipment	Y
INHSWWKG	Inhibit Switch To Working Request On Equipment	Y
INTRUSION-PSWD	Security Intrusion Attempt Detected—See Audit Log	Y
INVMACADR	Invalid MAC Address	Y
IOSCFGCOPY	Ios Config Copy In Progress	Y
KB-PASSTHR	K Bytes Pass-Through Is Active	Y
KBYTE-APS-CHANNEL-FAILURE	Kbyte Channel Failure	Y
LAN-POL-REV	Lan Connection Polarity Reversed	Y
LASER-APR	Laser Auto Power Reduction	Y
LASERBIAS-DEG	Laser Bias Degrade	Y
LASERBIAS-FAIL	Laser Bias Failure	Y
LASEREOL	Laser Approaching End of Life	Y
LASERTEMP-DEG	Laser Temperature Degrade	Y
LKOUTPR-R	Lockout Of Protection—Ring	Y
LKOUTPR-S	Lockout Of Protection—Span	Y
LKOUTWK-R	Lockout Of Working—Ring	Y
LKOUTWK-S	Lockout Of Working—Span	Y
LMP-HELLODOWN	Link Management Protocol (LMP) Hello FSM to Control Channel down	Y
LMP-NDFAIL	LMP Neighbor Discovery has failed	Y
LO-RXPOWER	Equipment Low Receive Power	Y
LO-TXPOWER	Equipment Low Transmit Power	Y
LOA	Loss of Alignment	Y
LOC	Loss of Channel	Y
LOCKOUT-REQ	Lockout Switch Request On Facility or Equipment	Y
LOCKOUT-REQ-RING	Lockout Switch Request On Ring	Y
LOCKOUTOFPR	Lockout Of Protection	Y
LOF	Loss Of Frame	Y
LOM	Loss of Multi-Frame	Y
LOS	Loss Of Signal	Y

Table 26-1 Conditions

Condition	Description	Cisco ONS 15454 SDH
LOS-CONT	Loss Of Continuity	Y
LP-PLM	Signal Label Mismatch Failure (SLMF)—PLM Low Order—Path Label Mismatch	Y
LP-RFI	RFI—Low Order—Remote Failure/Alarm Indication	Y
LP-TIM	TIM Low Order—Trace Identifier Mismatch Failure	Y
LP-UNEQ	Signal Label Mismatch Failure (SLMF)—Unequipped Low Order—Path Unequipped	Y
LPBKCRS	Cross-connect Loopback	Y
LPBKDS1FEAC	DS1 Loopback Due To Far End Alarm and Control (FEAC) Command	Y
LPBKDS3FEAC	DS3 Loopback Due To FEAC Command	Y
LPBKDS3FEAC-CMD	DS3 Loopback Command Sent To Far End	Y
LPBKE1FEAC	E1 loopback due to FEAC command	Y
LPBKE3FEAC	E3 loopback due to FEAC command	Y
LPBKE3FEAC-CMD	E3 loopback command sent to far end	Y
LPBKFACILITY	Facility Loopback	Y
LPBKTERMINAL	Terminal Loopback	Y
MAN-REQ	Manual Switch Request	Y
MANRESET	Manual System Reset	Y
MANSWTOINT	Manual Switch To Internal Clock	Y
MANSWTOPRI	Manual Switch To Primary Reference	Y
MANSWTOSEC	Manual Switch To Second Reference	Y
MANSWTO THIRD	Manual Switch To Third Reference	Y
MANUAL-REQ-RING	Manual Switch Request On Ring	Y
MANUAL-REQ-SPAN	Manual Switch Request On Span	Y
MEA	Mismatch Of Equipment And Attributes	Y
MEM-GONE	Free Memory On Card Near Zero	Y
MEM-LOW	Free Memory On Card Very Low	Y
MFGMEM	Manufacturing Data Memory (EEPROM Failure)	Y

Table 26-1 Conditions

Condition	Description	Cisco ONS 15454 SDH
MS-AIS	AIS—Multiplex Section—Alarm Indication Signal	Y
MS-EOC	Multiplex Section DCC Termination Failure	Y
MS-RFI	RFI—Multiplex Section—Remote Failure/Alarm Indication	Y
MSSP-OOSYNC	Procedural Error—MS-SPRing out of sync	Y
NO-CONFIG	No Startup Configuration	Y
NTWTPINC	Network Topology Incomplete	Y
OCHNC-ACTIV-FAIL	Optical Channel Activation Failure	Y
OCHNC-DEACTIV-FAIL	Optical Channel Deactivation Failure	Y
OCHNC-FAIL	Optical Channel Connection Failure	Y
OCHNC-INC	Optical Channel Incomplete	Y
ODUK-AIS-PM	ODUk: Alarm Indication Signal	Y
ODUK-BDI-PM	ODUk: PM Backward Defect Indication	Y
ODUK-LCK-PM	ODUk: Locked Defect —Performance Monitoring (PM)	Y
ODUK-OCI-PM	ODUk: Open Connection Indication	Y
ODUK-SD-PM	ODUk: Signal Degrade	Y
ODUK-SF-PM	ODUk: Signal Failure	Y
ODUK-TIM-PM	ODUk: Trail Trace Identifier Mismatch	Y
OOU-TPT	Out of Use—Transport Failure	Y
OPTNTWMIS	Optical Network Type Mismatch	Y
OPWR-HDEG	Optical Power Degrade High	Y
OPWR-HFAIL	Optical Power Failure High	Y
OPWR-LDEG	Optical Power Degrade Low	Y
OPWR-LFAIL	Optical Power Failure Low	Y
OTUK-AIS	OTUk: Alarm Indication Signal	Y
OTUK-BDI	OTUk: Backward Defect Indication	Y
OTUK-LOF	OTUk: Loss Of Frame	Y
OTUK-SD	OTUk: Signal Degrade	Y
OTUK-SF	OTUk: Signal Failure	Y
OTUK-TIM	OTUk: Trail Trace Identifier Mismatch	Y
OUT-OF-SYNC	8B10B Out of Sync	Y
PDI-P	Payload Defect Indication—Path	Y

Table 26-1 Conditions

Condition	Description	Cisco ONS 15454 SDH
PEER-NORESPONSE	Peer Card Not Responding	Y
PORT-CODE-MISMATCH	Pluggable port security code mismatch	Y
PORT-COMM-FAILURE	Module Communication Failure	Y
PORT-MISMATCH	Pluggable port rate mismatch	Y
PORT-MISSING	Pluggable port missing	Y
PRC-DUPID	Duplicate Node ID	Y
PROTNA	Protection Unit Not Available	Y
PTIM	Payload Type Identifier Mismatch	Y
PWR-REDUN	Redundant Power Capability Lost	Y
RAI	Remote Alarm Indication	Y
RCVR-MISS	Facility Termination Equipment—Receiver Missing	Y
RFI	Remote Failure Indication	Y
RFI-L	Remote Failure Indication—Line	Y
RING-ID-MISMATCH	Ring Id Mismatch	Y
RING-MISMATCH	Far End Of Fiber Is Provisioned With Different Ring ID	Y
RING-SW-EAST	Ring Switch Is Active On The East Side	Y
RING-SW-WEST	Ring Switch Is Active On The West Side	Y
RSVP-HELLODOWN	RSVP Hello FSM to Neighbor down	Y
RUNCFG-SAVED	Need to Save Running Config	Y
SD	Signal Degrade	Y
SD-L	Bit Error Rate (BER) Threshold Exceeded For Signal Degrade—Line	Y
SDBER-EXCEED-HIGH	BER Threshold Exceeded For Signal Degrade—High Order	Y
SF	Signal Failure	Y
SF-L	BER Threshold Exceeded For Signal Failure—Line	Y
SFBER-EXCEED-HIGH	BER Threshold Exceeded For Signal Failure—High Order	Y
SFTWDOWN	Software Download In Progress	Y
SH-INS-LOSS-VARIABLE-DEG-HIGH	Shutter Insertion Loss Variation Degrade High	Y

Table 26-1 Conditions

Condition	Description	Cisco ONS 15454 SDH
SH-INS-LOSS-VAR-DEG-LOW	Shutter Insertion Loss Variation Degrade Low	Y
SHUTTER-OPEN	Shutter Open	Y
SNTP-HOST	Simple Network time Protocol (SNTP) Host Failure	Y
SPAN-SW-EAST	Span Switch Is Active On The East Side	Y
SPAN-SW-WEST	Span Switch Is Active On The West Side	Y
SQM	Sequence Mismatch	Y
SQUELCH	Ring Is Squelching Traffic	Y
SQUELCH-PATH	Squelching Path	Y
SQUELCHED	Equipment Squelched	Y
SSM-DUS	Do Not Use For Synchronization	Y
SSM-FAIL	Failed To Receive Synchronization Status Message	Y
SSM-LNC	ITU-T G.812—Local Node Clock traceable	Y
SSM-OFF	Synchronization Status Messages Are Disabled On This Interface	Y
SSM-PRC	ITU-T G.811—Primary Reference Clock traceable	Y
SSM-PRS	Stratum 1 Primary Reference Source Traceable	Y
SSM-RES	Reserved For Network Synchronization Use	Y
SSM-SDH-TN	ITU-T G.812—Transit Node Clock traceable	Y
SSM-SETS	ITU-T G.813—Synchronous Equipment Timing Source traceable	Y
SSM-SMC	SDH Minimum Clock Traceable	Y
SSM-ST2	Stratum 2 Traceable	Y
SSM-ST3	Stratum 3 Traceable	Y
SSM-ST3E	Stratum 3E Traceable	Y
SSM-ST4	Stratum 4 Traceable	Y
SSM-STU	Synchronized—Traceability Unknown	Y
SSM-TNC	Transit Node Clock Traceable	Y
SWMTXMOD	Switching Matrix Module Failure	Y
SWTOPRI	Switch To Primary Reference	Y
SWTOSEC	Switch To Second Reference	Y
SWTOTHIRD	Switch To Third Reference	Y

Table 26-1 Conditions

Condition	Description	Cisco ONS 15454 SDH
SYNC-FREQ	Synchronization Reference Frequency Out Of Bounds	Y
SYNCPRI	Primary Synchronization Reference Failure	Y
SYNCSEC	Secondary Synchronization Reference Failure	Y
SYNCTHIRD	Third Synchronization Reference Failure	Y
SYSBOOT	System Reboot	Y
TIM	TIM Section—Trace Identifier Mismatch Failure	Y
TIM-MON	TIM Section Monitor—Trace Identifier Mismatch Failure	Y
TPTFAIL	Transport layer failure	Y
TRMT	Transmit Failure	Y
TRMT-MISS	Facility Termination Equipment—Transmitter Missing	Y
TU-AIS	AIS—Tributary Unit—Alarm Indication Signal	Y
TU-LOP	LOP—Tributary Unit—Loss of Pointer	Y
TUNDERRUN	Ethernet Transmit First In First Out Underrun	Y
TX-AIS	Alarm Indication Signal in TX	Y
TX-RAI	Remote Alarm Indication in TX	Y
UNC-WORD	FEC Uncorrected Word	Y
VCG-DEG	VCAT Group Degraded	Y
VCG-DOWN	VCAT Group Down	Y
VOA-HDEG	Variable Optical Attenuator Degrade High	Y
VOA-HFAIL	Variable Optical Attenuator Failure High	Y
VOA-LDEG	Variable Optical Attenuator Degrade Low	Y
VOA-LFAIL	Variable Optical Attenuator Failure Low	Y
WKSWPR	Switched To Protection	Y
WTR	Wait To Restore	Y
WVL-MISMATCH	Equipment Wavelength Mismatch	Y