

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.

This chapter gives a description, severity, and troubleshooting procedure for each commonly encountered Cisco ONS 15454 alarm and condition. Tables [2-1](#) through [2-5](#) provide lists of ONS 15454 alarms organized by severity. [Table 2-11](#) provides a list of alarms organized alphabetically. [Table 2-7](#) gives definitions of all ONS 15454 alarm logical objects, which are the basis of the alarm profile list in [Table 2-8](#). For a comprehensive list of all conditions and instructions for using TL1 commands, refer to the *Cisco ONS SONET TL1 Command Guide*.

An alarm's troubleshooting procedure applies to both the Cisco Transport Controller (CTC) and TL1 version of that alarm. If the troubleshooting procedure does not clear the alarm, log into the Technical Support Website at <http://www.cisco.com/techsupport> for more information or call the Cisco Technical Assistance Center 1 800 553-2447.

For more information about alarm profiles, refer to the "Manage Alarms" chapter in the *Cisco ONS 15454 Procedure Guide*.

Contents

- [1 Alarm Indexes by Default Severity](#)
 - ◆ [1.1 Critical Alarms \(CR\)](#)
 - ◇ [1.1.1 Table 2-1: ONS 15454 Critical Alarm List](#)
 - ◆ [1.2 Major Alarms \(MJ\)](#)
 - ◇ [1.2.1 Table 2-2: ONS 15454 Major Alarm List](#)
 - ◆ [1.3 Minor Alarms \(MN\)](#)
 - ◇ [1.3.1 Table 2-3: ONS 15454 Minor Alarm List](#)
 - ◆ [1.4 NA Conditions](#)
 - ◇ [1.4.1 Table 2-4: ONS 15454 NA Conditions List](#)
 - ◆ [1.5 NR Conditions](#)
 - ◇ [1.5.1 Table 2-5: ONS 15454 NR Conditions List](#)
- [2 Alarms and Conditions Listed By Alphabetical Entry](#)
 - ◆ [2.1 Table 2-6: ONS 15454 Alarm and Condition Alphabetical List](#)
- [3 Alarm Logical Objects](#)
 - ◆ [3.1 Table 2-7: Alarm Logical Object Type Definitions](#)
- [4 Alarm List by Logical Object Type](#)
 - ◆ [4.1 Table 2-8: Alarm List by Logical Object in Alarm Profile](#)
- [5 Trouble Notifications](#)
 - ◆ [5.1 Alarm Characteristics](#)
 - ◆ [5.2 Condition Characteristics](#)
 - ◆ [5.3 Severities](#)

- ◆ [5.4 Alarm Hierarchy](#)
 - ◇ [5.4.1 Table 2-9: Path Alarm Hierarchy](#)
 - ◇ [5.4.2 Table 2-10: Facility Alarm Hierarchy](#)
 - ◇ [5.4.3 Table 2-11: Near-End Alarm Hierarchy](#)
 - ◇ [5.4.4 Table 2-12: Far-End Alarm Hierarchy](#)
- ◆ [5.5 Service Effect](#)
- ◆ [5.6 States](#)
- [6 Safety Summary](#)

Alarm Indexes by Default Severity

The following tables group alarms and conditions by their default severities in the ONS 15454 system. These severities are the same whether they are reported in the CTC Alarms window severity (SEV) column or in TL1.

Note: The CTC default alarm profile contains some alarms or conditions that are not currently implemented but are reserved for future use.

Note: The CTC default alarm profile in some cases contains two severities for one alarm (for example, MJ/MN). The ONS 15454 platform default severity comes first (in this example, MJ), but the alarm can be demoted to the second severity in the presence of a higher-ranking alarm. This is in accordance with Telcordia GR-474.

Critical Alarms (CR)

[Table 2-1](#) alphabetically lists ONS 15454 Critical (CR) alarms.

Table 2-1: ONS 15454 Critical Alarm List

ADD-OPWR-HFAIL (OCH)	LOA (VCG)	MFGMEM (PPM)
ADD-OPWR-LFAIL (OCH)	LOF (DS3)	OPWR-HFAIL (AOTS)
AUTOLSROFF (OCN)	LOF (EC1)	OPWR-HFAIL (OCH)
AWG-FAIL (OTS)	LOF (OCN)	OPWR-HFAIL (OMS)
AWG-OVERTEMP (OTS)	LOF (STSTRM)	OPWR-HFAIL (OTS)
BKUPMEMP (EQPT)	LOF (TRUNK)	OPWR-LFAIL (AOTS)
COMIOXC (EQPT)	LOM (STSMON)	OPWR-LFAIL (OCH-TERM)
CONTBUS-DISABLED (EQPT)	LOM (STSTRM)	OPWR-LFAIL (OCH)
CTNEQPT-PBPROT (EQPT)	LOM (TRUNK)	OPWR-LFAIL (OMS)
CTNEQPT-PBWORK (EQPT)	LOP-P (STSMON)	OPWR-LFAIL (OTS)
ENCAP-MISMATCH-P (STSTRM)	LOP-P (STSTRM)	OTUK-LOF (TRUNK)
EQPT (AICI-AEP)	LOS (2R)	OTUK-TIM (TRUNK)
EQPT (AICI-AIE)	LOS (DS3)	PLM-P (STSMON)
EQPT (EQPT)	LOS (EC1)	PLM-P (STSTRM)
EQPT (PPM)	LOS (ESCON)	PORT-FAIL (OCH)
EQPT-DIAG (EQPT)	LOS (ISC)	SQM (STSTRM)
EQPT-MISS (FAN)	LOS (OCN)	SWMTXMOD-PROT (EQPT)
FAN (FAN)	LOS (OTS)	SWMTXMOD-WORK (EQPT)
GAIN-HFAIL (AOTS)	LOS (TRUNK)	TIM (OCN)

GAIN-LFAIL (AOTS)	LOS-P (OCH)	TIM (TRUNK)
GE-OOSYNC (FC)	LOS-P (OMS)	TIM-P (STSTRM)
GE-OOSYNC (GE)	LOS-P (OTS)	TIM-S (EC1)
GE-OOSYNC (ISC)	LOS-P (TRUNK)	TIM-S (OCN)
GE-OOSYNC (TRUNK)	MEA (AIP)	UNEQ-P (STSMON)
HITEMP (NE)	MEA (BIC)	UNEQ-P (STSTRM)
I-HITEMP (NE)	MEA (EQPT)	VOA-HFAIL (AOTS)
ILK-FAIL (TRUNK)	MEA (FAN)	VOA-HFAIL (OCH)
IMPROPRMVL (EQPT)	MEA (PPM)	VOA-HFAIL (OMS)
IMPROPRMVL (PPM)	MFGMEM (AICI-AEP)	VOA-HFAIL (OTS)
LINK-KEEPALIVE (ML1000)	MFGMEM (AICI-AIE)	VOA-LFAIL (AOTS)
LINK-KEEPALIVE (ML100T)	MFGMEM (AIP)	VOA-LFAIL (OCH)
LINK-KEEPALIVE (MLFX)	MFGMEM (BPLANE)	VOA-LFAIL (OMS)
LINK-KEEPALIVE (MLMR)	MFGMEM (FAN)	VOA-LFAIL (OTS)

Major Alarms (MJ)

Table 2-2 alphabetically lists ONS 15454 Major (MJ) alarms.

Table 2-2: ONS 15454 Major Alarm List

APSCNMIS (OCN)	GFP-DE-MISMATCH (GFP-FAC)	RCVR-MISS (DS1)
AUTONEG-RFI (ML1000)	GFP-EX-MISMATCH (CE1000)	RCVR-MISS (E1)
BAT-FAIL (PWR)	GFP-EX-MISMATCH (FCMR)	RSV-RT-EXCD-RINGLET0 (RPRIF)
BLSROSYNC (OCN)	GFP-EX-MISMATCH (GFP-FAC)	RSV-RT-EXCD-RINGLET1 (RPRIF)
BLSR-SW-VER-MISM (OCN)	GFP-LFD (CE1000)	RING-ID-MIS (OCN)
CARLOSS (CE1000)	GFP-LFD (CE100T)	RING-ID-MIS (OSC-RING)
CARLOSS (CE100T)	GFP-LFD (CEMR)	RING-MISMATCH (OCN)
CARLOSS (CEMR)	GFP-LFD (FCMR)	RPR-PEER-MISS (RPRIF)
CARLOSS (E1000F)	GFP-LFD (GFP-FAC)	RPR-PROT-CONFIG-MISM (RPRIF)
CARLOSS (E100T)	GFP-LFD (ML1000)	RPR-RI-FAIL (RPRIF)
CARLOSS (EQPT)	GFP-LFD (ML100T)	RPR-SPAN-MISMATCH (ML1000)
CARLOSS (FC)	GFP-LFD (MLFX)	RPR-SPAN-MISMATCH (ML100T)
CARLOSS (G1000)	GFP-LFD (MLMR)	RPR-SPAN-MISMATCH (MLFX)
CARLOSS (GE)	GFP-NO-BUFFERS (FCMR)	RPR-SPAN-MISMATCH (MLMR)
CARLOSS (ISC)	GFP-NO-BUFFERS (GFP-FAC)	SHELF-COMM-FAIL (SHELF)
CARLOSS (ML1000)	GFP-UP-MISMATCH (CE1000)	SIGLOSS (ESCON)
CARLOSS (ML100T)	GFP-UP-MISMATCH (CE100T)	SIGLOSS (FC)
CARLOSS (MLFX)	GFP-UP-MISMATCH (CEMR)	SIGLOSS (FCMR)
CARLOSS (MLMR)	GFP-UP-MISMATCH (FCMR)	SIGLOSS (GE)
CARLOSS (TRUNK)	GFP-UP-MISMATCH (GFP-FAC)	SIGLOSS (ISC)

DATA-CRC (CE100T)	GFP-UP-MISMATCH (ML1000)	SIGLOSS (TRUNK)
DATA-CRC (ML1000)	GFP-UP-MISMATCH (ML100T)	SQM (VT-TERM)
DATA-CRC (ML100T)	GFP-UP-MISMATCH (MLFX)	SYNCLOSS (FC)
DATA-CRC (MLFX)	GFP-UP-MISMATCH (MLMR)	SYNCLOSS (FCMR)
DBOSYNC (NE)	HIBATVG (PWR)	SYNCLOSS (GE)
DSP-COMM-FAIL (TRUNK)	INVMACADR (AIP)	SYNCLOSS (ISC)
DSP-FAIL (TRUNK)	LASERBIAS-FAIL (AOTS)	SYNCLOSS (TRUNK)
DUP-SHELF-ID (SHELF)	LOF (DS1)	SYNCPRI (NE-SREF)
EHIBATVG (PWR)	LOF (E1)	SYSBOOT (NE)
ELWBATVG (PWR)	LOM (VT-TERM)	TIM-V (VT-MON)
E-W-MISMATCH (OCN)	LOP-V (VT-MON)	TIM-V (VT-TERM)
EXTRA-TRAF-PREEMPT (OCN)	LOP-V (VT-TERM)	TPTFAIL (CE1000)
FC-DE-NES (FC)	LOS (DS1)	TPTFAIL (CE100T)
FC-DE-NES (FCMR)	LOS (E1)	TPTFAIL (CEMR)
FC-DE-NES (TRUNK)	LWBATVG (PWR)	TPTFAIL (FCMR)
FC-NO-CREDITS (FC)	MAX-STATIONS (RPRIF)	TPTFAIL (G1000)
FC-NO-CREDITS (FCMR)	MEA (SHELF)	TPTFAIL (ML1000)
FC-NO-CREDITS (TRUNK)	MEM-GONE (EQPT)	TPTFAIL (ML100T)
FEC-MISM (TRUNK)	ODUK-TIM-PM (TRUNK)	TPTFAIL (MLFX)
GFP-CSF (CE1000)	OUT-OF-SYNC (FC)	TPTFAIL (MLMR)
GFP-CSF (CE100T)	OUT-OF-SYNC (GE)	TRMT (DS1)
GFP-CSF (CEMR)	OUT-OF-SYNC (TRUNK)	TRMT (E1)
GFP-CSF (FCMR)	PLM-V (VT-MON)	TRMT-MISS (DS1)
GFP-CSF (GFP-FAC)	PLM-V (VT-TERM)	TRMT-MISS (E1)
GFP-CSF (ML1000)	PORT-MISMATCH (CEMR)	UNEQ-V (VT-MON)
GFP-CSF (ML100T)	PORT-MISMATCH (MLMR)	UNEQ-V (VT-TERM)
GFP-CSF (MLFX)	PRC-DUPID (OCN)	UT-COMM-FAIL (TRUNK)
GFP-CSF (MLMR)	PROV-MISMATCH (TRUNK)	UT-FAIL (TRUNK)
GFP-DE-MISMATCH (FCMR)	PTIM (TRUNK)	WVL-MISMATCH (TRUNK)

Minor Alarms (MN)

Table 2-3 alphabetically lists ONS 15454 Minor (MN) alarms.

Table 2-3: ONS 15454 Minor Alarm List

ADD-OPWR-HDEG (OCH)	HI-LASERBIAS (TRUNK)	LO-TXPOWER (2R)
ADD-OPWR-LDEG (OCH)	HI-LASERTEMP (EQPT)	LO-TXPOWER (EQPT)
APC-CORR-SKIPPED (AOTS)	HI-LASERTEMP (OCN)	LO-TXPOWER (ESCON)
APC-CORR-SKIPPED (OCH)	HI-LASERTEMP (PPM)	LO-TXPOWER (FC)
APC-CORR-SKIPPED (OMS)	HI-RXPOWER (2R)	LO-TXPOWER (GE)
APC-CORR-SKIPPED (OTS)	HI-RXPOWER (ESCON)	LO-TXPOWER (ISC)
APS-PRIM-SEC-MISM (OCN)	HI-RXPOWER (FC)	LO-TXPOWER (OCN)
APC-OUT-OF-RANGE (AOTS)	HI-RXPOWER (GE)	LO-TXPOWER (PPM)
APC-OUT-OF-RANGE (OCH)	HI-RXPOWER (ISC)	LO-TXPOWER (TRUNK)

Table 2-2: ONS 15454 Major Alarm List

APC-OUT-OF-RANGE (OMS)	HI-RXPOWER (OCN)	MEM-LOW (EQPT)
APC-OUT-OF-RANGE (OTS)	HI-RXPOWER (TRUNK)	OPWR-HDEG (AOTS)
APSB (OCN)	HITEMP (EQPT)	OPWR-HDEG (OCH-TERM)
APSCDFLTK (OCN)	HI-TXPOWER (2R)	OPWR-HDEG (OCH)
APSC-IMP (OCN)	HI-TXPOWER (EQPT)	OPWR-HDEG (OMS)
APSCINCON (OCN)	HI-TXPOWER (ESCON)	OPWR-HDEG (OTS)
APSCM (OCN)	HI-TXPOWER (FC)	OPWR-LDEG (AOTS)
APSIMP (OCN)	HI-TXPOWER (GE)	OPWR-LDEG (OCH-TERM)
APS-INV-PRIM (OCN)	HI-TXPOWER (ISC)	OPWR-LDEG (OCH)
APSM (OCN)	HI-TXPOWER (OCN)	OPWR-LDEG (OMS)
AUTORESET (EQPT)	HI-TXPOWER (PPM)	OPWR-LDEG (OTS)
AWG-DEG (OTS)	HI-TXPOWER (TRUNK)	OTUK-IAE (TRUNK)
BPV (BITS)	ISIS-ADJ-FAIL (OCN)	PEER-NORESPONSE (MLMR)
CASETEMP-DEG (AOTS)	ISIS-ADJ-FAIL (TRUNK)	PROTNA (EQPT)
COMM-FAIL (EQPT)	KBYTE-APS-CHAN-FAIL (OCN)	PROV-MISMATCH (PPM)
CONTBUS-A-18 (EQPT)	LASERBIAS-DEG (AOTS)	PWR-FAIL-A (EQPT)
CONTBUS-B-18 (EQPT)	LASERBIAS-DEG (OTS)	PWR-FAIL-B (EQPT)
CONTBUS-IO-A (EQPT)	LASEREOL (OCN)	PWR-FAIL-RET-A (EQPT)
CONTBUS-IO-B (EQPT)	LASERTEMP-DEG (AOTS)	PWR-FAIL-RET-B (EQPT)
DATAFLT (NE)	LMP-FAIL (CTRL)	ROUTE-OVERFLOW (NSA)
DCU-LOSS-FAIL (OTS)	LMP-FAIL (GE)	SFTWDOWN (EQPT)
DUP-IPADDR (NE)	LMP-FAIL (OCN)	SH-IL-VAR-DEG-HIGH (OTS)
DUP-NODENAME (NE)	LMP-FAIL (TLINK)	SH-IL-VAR-DEG-LOW (OTS)
EOC (OCN)	LMP-SD (GE)	SNTP-HOST (NE)
EOC (TRUNK)	LMP-SD (OCN)	SPANLEN-OUT-OF-RANGE (OTS)
EOC-L (OCN)	LMP-SF (GE)	SSM-FAIL (BITS)
EOC-L (TRUNK)	LMP-SF (OCN)	SSM-FAIL (DS1)
ERROR-CONFIG (EQPT)	LOF (BITS)	SSM-FAIL (E1)
EXCCOL (EQPT)	LO-LASERBIAS (EQPT)	SSM-FAIL (OCN)
EXT (ENVALRM)	LO-LASERBIAS (OCN)	SSM-FAIL (TRUNK)
FAPS-CONFIG-MISMATCH (EQPT)	LO-LASERBIAS (PPM)	SYNCPRI (EXT-SREF)
FEPRLF (OCN)	LO-LASERTEMP (EQPT)	SYNCSEC (EXT-SREF)
FIBERTEMP-DEG (AOTS)	LO-LASERTEMP (OCN)	SYNCSEC (NE-SREF)
FP-LINK-LOSS (EQPT)	LO-LASERTEMP (PPM)	SYNCTHIRD (EXT-SREF)
GAIN-HDEG (AOTS)	LO-RXPOWER (2R)	SYNCTHIRD (NE-SREF)
GAIN-LDEG (AOTS)	LO-RXPOWER (ESCON)	TIM-MON (OCN)
GCC-EOC (TRUNK)	LO-RXPOWER (FC)	TIM-MON (TRUNK)
HELLO (OCN)	LO-RXPOWER (GE)	TIM-P (STSMON)
HELLO (TRUNK)	LO-RXPOWER (ISC)	VOA-HDEG (AOTS)
HI-LASERBIAS (2R)	LO-RXPOWER (OCN)	VOA-HDEG (OCH)
HI-LASERBIAS (EQPT)	LO-RXPOWER (TRUNK)	VOA-HDEG (OMS)

Table 2-3: ONS 15454 Minor Alarm List

HI-LASERBIAS (ESCON)	LOS (BITS)	VOA-HDEG (OTS)
HI-LASERBIAS (FC)	LOS (FUDC)	VOA-LDEG (AOTS)
HI-LASERBIAS (GE)	LOS (MSUDC)	VOA-LDEG (OCH)
HI-LASERBIAS (ISC)	LOS-O (OCH)	VOA-LDEG (OMS)
HI-LASERBIAS (OCN)	LOS-O (OMS)	VOA-LDEG (OTS)
HI-LASERBIAS (PPM)	LOS-O (OTS)	-

NA Conditions

Table 2-4 alphabetically lists ONS 15454 Not Alarmed (NA) conditions.

Table 2-4: ONS 15454 NA Conditions List

ALS (2R)	FRCDSWTOSEC (NE-SREF)	SD (TRUNK)
ALS (AOTS)	FRCDSWTOTHIRD (EXT-SREF)	SD-L (EC1)
ALS (ESCON)	FRNGSYNC (NE-SREF)	SD-L (TRUNK)
ALS (FC)	FSTSYNC (NE-SREF)	SD-P (STSMON)
ALS (GE)	FTA-MISMATCH (EQPT)	SD-P (STSTRM)
ALS (ISC)	FULLPASSTHR-BI (OCN)	SD-V (VT-MON)
ALS (OCN)	HI-CCVOLT (BITS)	SD-V (VT-TERM)
ALS (TRUNK)	HLDOVRSYNC (NE-SREF)	SF (DS1)
ALS-DISABLED (EQPT)	IDLE (DS1)	SF (DS3)
AMPLI-INIT (AOTS)	INC-ISD (DS3)	SF (TRUNK)
APC-DISABLED (AOTS)	INHSWPR (EQPT)	SF-L (EC1)
APC-DISABLED (EQPT)	INHSWWKG (EQPT)	SF-L (OCN)
APC-DISABLED (NE)	INTRUSION-PSWD (NE)	SF-L (TRUNK)
APC-DISABLED (OCH)	IOSCFGCOPY (EQPT)	SF-P (STSMON)
APC-DISABLED (OMS)	KB-PASSTHR (OCN)	SF-P (STSTRM)
APC-DISABLED (OTS)	LAN-POL-REV (NE)	SF-V (VT-MON)
APC-DISABLED (SHELF)	LASER-APR (AOTS)	SF-V (VT-TERM)
APC-END (NE)	LCAS-CRC (STSTRM)	SHUTTER-OPEN (OTS)
APC-WRONG-GAIN (AOTS)	LCAS-CRC (VT-TERM)	SPAN-NOT-MEASURED (OTS)
APS-PRIM-FAC (OCN)	LCAS-RX-DNU (STSTRM)	SPAN-SW-EAST (OCN)
AS-CMD (2R)	LCAS-RX-DNU (VT-TERM)	SPAN-SW-WEST (OCN)
AS-CMD (AOTS)	LCAS-RX-FAIL (STSTRM)	SQUELCH (OCN)
AS-CMD (BPLANE)	LCAS-RX-FAIL (VT-TERM)	SQUELCHED (2R)
AS-CMD (CE1000)	LCAS-RX-GRP-ERR (STSTRM)	SQUELCHED (ESCON)
AS-CMD (CE100T)	LCAS-RX-GRP-ERR (VT-TERM)	SQUELCHED (FC)
AS-CMD (CEMR)	LCAS-TX-ADD (STSTRM)	SQUELCHED (GE)
AS-CMD (DS1)	LCAS-TX-ADD (VT-TERM)	SQUELCHED (ISC)
AS-CMD (DS3)	LCAS-TX-DNU (STSTRM)	SQUELCHED (OCN)
AS-CMD (E1000F)	LCAS-TX-DNU (VT-TERM)	SQUELCHED (TRUNK)
AS-CMD (E100T)	LKOUTPR-S (OCN)	SSM-DUS (BITS)
AS-CMD (E1)	LMP-UNALLOC (GE)	SSM-DUS (DS1)
AS-CMD (EC1)	LMP-UNALLOC (OCN)	SSM-DUS (E1)
AS-CMD (EQPT)	LOCKOUT-REQ (2R)	SSM-DUS (OCN)

AS-CMD (ESCON)	LOCKOUT-REQ (EQPT)	SSM-DUS (TRUNK)
AS-CMD (FC)	LOCKOUT-REQ (ESCON)	SSM-LNC (BITS)
AS-CMD (FCMR)	LOCKOUT-REQ (FC)	SSM-LNC (NE-SREF)
AS-CMD (G1000)	LOCKOUT-REQ (GE)	SSM-LNC (OCN)
AS-CMD (GE)	LOCKOUT-REQ (ISC)	SSM-LNC (TRUNK)
AS-CMD (GFP-FAC)	LOCKOUT-REQ (OCN)	SSM-OFF (BITS)
AS-CMD (ISC)	LOCKOUT-REQ (STSMON)	SSM-OFF (DS1)
AS-CMD (ML1000)	LOCKOUT-REQ (TRUNK)	SSM-OFF (E1)
AS-CMD (ML100T)	LOCKOUT-REQ (VT-MON)	SSM-OFF (OCN)
AS-CMD (MLFX)	LPBKCRS (STSMON)	SSM-OFF (TRUNK)
AS-CMD (MLMR)	LPBKCRS (STSTRM)	SSM-PRC (BITS)
AS-CMD (NE)	LPBKDS1FE-CMD (DS1)	SSM-PRC (NE-SREF)
AS-CMD (OCH)	LPBKDS3FEAC (DS3)	SSM-PRC (OCN)
AS-CMD (OCN)	LPBKDS3FEAC-CMD (DS3)	SSM-PRC (TRUNK)
AS-CMD (OMS)	LPBKFACILITY (CE1000)	SSM-PRS (BITS)
AS-CMD (OTS)	LPBKFACILITY (CE100T)	SSM-PRS (DS1)
AS-CMD (PPM)	LPBKFACILITY (CEMR)	SSM-PRS (E1)
AS-CMD (PWR)	LPBKFACILITY (DS1)	SSM-PRS (NE-SREF)
AS-CMD (SHELF)	LPBKFACILITY (DS3)	SSM-PRS (OCN)
AS-CMD (TRUNK)	LPBKFACILITY (E1)	SSM-PRS (TRUNK)
AS-MT (2R)	LPBKFACILITY (EC1)	SSM-RES (BITS)
AS-MT (AOTS)	LPBKFACILITY (ESCON)	SSM-RES (DS1)
AS-MT (CE1000)	LPBKFACILITY (FC)	SSM-RES (E1)
AS-MT (CE100T)	LPBKFACILITY (FCMR)	SSM-RES (NE-SREF)
AS-MT (CEMR)	LPBKFACILITY (G1000)	SSM-RES (OCN)
AS-MT (DS1)	LPBKFACILITY (GE)	SSM-RES (TRUNK)
AS-MT (DS3)	LPBKFACILITY (ISC)	SSM-SDH-TN (BITS)
AS-MT (E1)	LPBKFACILITY (MLMR)	SSM-SDH-TN (NE-SREF)
AS-MT (EC1)	LPBKFACILITY (OCN)	SSM-SDH-TN (OCN)
AS-MT (EQPT)	LPBKFACILITY (TRUNK)	SSM-SDH-TN (TRUNK)
AS-MT (ESCON)	LPBKTERMINAL (CE1000)	SSM-SETS (BITS)
AS-MT (FC)	LPBKTERMINAL (CE100T)	SSM-SETS (NE-SREF)
AS-MT (FCMR)	LPBKTERMINAL (CEMR)	SSM-SETS (OCN)
AS-MT (G1000)	LPBKTERMINAL (DS1)	SSM-SETS (TRUNK)
AS-MT (GE)	LPBKTERMINAL (DS3)	SSM-SMC (BITS)
AS-MT (GFP-FAC)	LPBKTERMINAL (E1)	SSM-SMC (DS1)
AS-MT (ISC)	LPBKTERMINAL (EC1)	SSM-SMC (E1)
AS-MT (ML1000)	LPBKTERMINAL (ESCON)	SSM-SMC (NE-SREF)
AS-MT (ML100T)	LPBKTERMINAL (FC)	SSM-SMC (OCN)
AS-MT (MLFX)	LPBKTERMINAL (FCMR)	SSM-SMC (TRUNK)
AS-MT (MLMR)	FRCDSWTOTHIRD (NE-SREF)	SSM-ST2 (BITS)
AS-MT (OCH)	LPBKTERMINAL (G1000)	SSM-ST2 (DS1)
AS-MT (OCN)	LPBKTERMINAL (GE)	SSM-ST2 (E1)
AS-MT (OMS)	LPBKTERMINAL (ISC)	SSM-ST2 (NE-SREF)

Table 2-4: ONS 15454 NA Conditions List

AS-MT (OTS)	LPBKTERMINAL (MLMR)	SSM-ST2 (OCN)
AS-MT (PPM)	LPBKTERMINAL (OCN)	SSM-ST2 (TRUNK)
AS-MT (SHELF)	LPBKTERMINAL (TRUNK)	SSM-ST3 (BITS)
AS-MT (TRUNK)	MAN-REQ (EQPT)	SSM-ST3 (DS1)
AS-MT-OOG (STSTRM)	MAN-REQ (ML1000)	SSM-ST3 (E1)
AS-MT-OOG (VT-TERM)	MAN-REQ (ML100T)	SSM-ST3 (NE-SREF)
AUD-LOG-LOSS (NE)	MAN-REQ (MLFX)	SSM-ST3 (OCN)
AUD-LOG-LOW (NE)	MAN-REQ (MLMR)	SSM-ST3 (TRUNK)
AUTOSW-LOP (STSMON)	MAN-REQ (STSMON)	SSM-ST3E (BITS)
AUTOSW-LOP (VT-MON)	MAN-REQ (VT-MON)	SSM-ST3E (DS1)
AUTOSW-PDI (STSMON)	MANRESET (EQPT)	SSM-ST3E (E1)
AUTOSW-PDI (VT-MON)	MANSWTOINT (NE-SREF)	SSM-ST3E (NE-SREF)
AUTOSW-SDBER (STSMON)	MANSWTOPRI (EXT-SREF)	SSM-ST3E (OCN)
AUTOSW-SDBER (VT-MON)	MANSWTOPRI (NE-SREF)	SSM-ST3E (TRUNK)
AUTOSW-SFBER (STSMON)	MANSWTOSEC (EXT-SREF)	SSM-ST4 (BITS)
AUTOSW-SFBER (VT-MON)	MANSWTOSEC (NE-SREF)	SSM-ST4 (DS1)
AUTOSW-UNEQ (STSMON)	MANSWTO THIRD (EXT-SREF)	SSM-ST4 (E1)
AUTOSW-UNEQ (VT-MON)	MANSWTO THIRD (NE-SREF)	SSM-ST4 (NE-SREF)
AWG-WARM-UP (OTS)	MANUAL-REQ-RING (OCN)	SSM-ST4 (OCN)
CLDRESTART (EQPT)	MANUAL-REQ-SPAN (2R)	SSM-ST4 (TRUNK)
CPP-INCAPABLE (MLMR)	MANUAL-REQ-SPAN (EC1)	SSM-STU (BITS)
CTNEQPT-MISMATCH (EQPT)	MANUAL-REQ-SPAN (ESCON)	SSM-STU (DS1)
DS3-MISM (DS3)	MANUAL-REQ-SPAN (FC)	SSM-STU (E1)
ETH-LINKLOSS (NE)	MANUAL-REQ-SPAN (GE)	SSM-STU (NE-SREF)
EXERCISE-RING-FAIL (OCN)	MANUAL-REQ-SPAN (ISC)	SSM-STU (OCN)
EXERCISE-SPAN-FAIL (OCN)	MANUAL-REQ-SPAN (OCN)	SSM-STU (TRUNK)
FAILTOSW (2R)	MANUAL-REQ-SPAN (TRUNK)	SSM-TNC (BITS)
FAILTOSW (EQPT)	MS-DEG (E1)	SSM-TNC (NE-SREF)
FAILTOSW (ESCON)	MS-EXC (E1)	SSM-TNC (OCN)
FAILTOSW (FC)	MT-OCHNC (OTS)	SSM-TNC (TRUNK)
FAILTOSW (GE)	NO-CONFIG (EQPT)	STS-SQUELCH-L (OCN)
FAILTOSW (ISC)	OCHNC-INC (OCHNC-CONN)	SW-MISMATCH (EQPT)
FAILTOSW (OCN)	OCHTERM-INC (OCH-TERM)	SWTOPRI (EXT-SREF)
FAILTOSW (TRUNK)	ODUK-SD-PM (TRUNK)	SWTOPRI (NE-SREF)
FAILTOSW-PATH (STSMON)	ODUK-SF-PM (TRUNK)	SWTOSEC (EXT-SREF)
FAILTOSW-PATH (VT-MON)	OOU-TPT (STSTRM)	SWTOSEC (NE-SREF)
FAILTOSWR (OCN)	OOU-TPT (VT-TERM)	SWTO THIRD (EXT-SREF)
FAILTOSWS (OCN)	OPEN-SLOT (EQPT)	SWTO THIRD (NE-SREF)
FAPS (FCMR)	OSRION (AOTS)	SYNC-FREQ (BITS)
FAPS (TRUNK)	OSRION (OTS)	SYNC-FREQ (DS1)
FDI (OCH-TERM)	OTUK-SD (TRUNK)	SYNC-FREQ (E1)
FDI (OCH)	OTUK-SF (TRUNK)	SYNC-FREQ (OCN)
FE-AIS (DS3)	OUT-OF-SYNC (ISC)	SYNC-FREQ (TRUNK)
FE-DS1-MULTLOS (DS3)	PARAM-MISM (AOTS)	TEMP-MISM (NE)

Table 2-4: ONS 15454 NA Conditions List

FE-DS1-NSA (DS3)	PARAM-MISM (OCH-TERM)	TRAIL-SIGNAL-FAIL (OCH)
FE-DS1-SA (DS3)	PARAM-MISM (OCH)	TRAIL-SIGNAL-FAIL (TRUNK)
FE-DS1-SNGLLOS (DS3)	PARAM-MISM (OMS)	TX-IDLE (DS1)
FE-DS3-NSA (DS3)	PARAM-MISM (OTS)	TX-RAI (DS1)
FE-DS3-SA (DS3)	PDI-P (STSMON)	TX-RAI (DS3)
FE-EQPT-NSA (DS3)	PDI-P (STSTRM)	TX-RAI (E1)
FE-FRCDWKSWBK-SPAN (OCN)	PMI (OMS)	UNC-WORD (TRUNK)
FE-FRCDWKSWPR-RING (EC1)	PMI (OTS)	VCG-DEG (VCG)
FE-FRCDWKSWPR-RING (OCN)	PORT-MISMATCH (FCMR)	VCG-DOWN (VCG)
FE-FRCDWKSWPR-SPAN (OCN)	RAI (DS1)	VOLT-MISM (PWR)
FE-IDLE (DS3)	RAI (DS3)	VT-SQUELCH-L (OCN)
FE-LOCKOUTOFPR-SPAN (OCN)	RAI (E1)	WKSWPR (2R)
FE-LOF (DS3)	RING-SW-EAST (OCN)	WKSWPR (EQPT)
FE-LOS (DS3)	RING-SW-WEST (OCN)	WKSWPR (ESCON)
FE-MANWKSWBK-SPAN (OCN)	ROLL (STSMON)	WKSWPR (FC)
FE-MANWKSWPR-RING (EC1)	ROLL (STSTRM)	WKSWPR (GE)
FE-MANWKSWPR-RING (OCN)	ROLL (VT-MON)	WKSWPR (ISC)
FE-MANWKSWPR-SPAN (OCN)	ROLL (VT-TERM)	WKSWPR (OCN)
FORCED-REQ (EQPT)	ROLL-PEND (STSMON)	WKSWPR (STSMON)
FORCED-REQ (ML1000)	ROLL-PEND (VT-MON)	WKSWPR (VT-MON)
FORCED-REQ (ML100T)	ROLL-PEND (VT-TERM)	WORK-QUEUE-FULL (EQPT)
FORCED-REQ (MLFX)	RPR-PASSTHR (RPRIF)	WTR (2R)
FORCED-REQ (MLMR)	RPR-PROT-ACTIVE (RPRIF)	WTR (EC1)
FORCED-REQ (STSMON)	RPR-SD (ML1000)	WTR (EQPT)
FORCED-REQ (VT-MON)	RPR-SD (ML100T)	WTR (ESCON)
FORCED-REQ-RING (OCN)	RPR-SD (MLFX)	WTR (FC)
FORCED-REQ-SPAN (2R)	SD-L (OCN)	WTR (GE)
FORCED-REQ-SPAN (EC1)	RPR-SD (MLMR)	WTR (ISC)
FORCED-REQ-SPAN (ESCON)	RPR-SF (ML1000)	WTR (ML1000)
FORCED-REQ-SPAN (FC)	RPR-SF (ML100T)	WTR (ML100T)
FORCED-REQ-SPAN (GE)	RPR-SF (MLFX)	WTR (MLFX)
FORCED-REQ-SPAN (ISC)	RPR-SF (MLMR)	WTR (MLMR)
FORCED-REQ-SPAN (OCN)	RPRW (ML1000)	WTR (OCN)
FORCED-REQ-SPAN (TRUNK)	RPRW (ML100T)	WTR (STSMON)
FRCDSWTOINT (NE-SREF)	RPRW (MLFX)	WTR (TRUNK)
FRCDSWTOPRI (EXT-SREF)	RUNCFG-SAVENEED (EQPT)	WTR (VT-MON)
FRCDSWTOPRI (NE-SREF)	SD (DS1)	-
FRCDSWTOSEC (EXT-SREF)	SD (DS3)	-

NR Conditions

Table 2-5 alphabetically lists ONS 15454 Not Reported (NR) conditions.

Table 2-5: ONS 15454 NR Conditions List

AIS (BITS)	BERT-SYNC-FAIL (DS1, DS3)	OTUK-BDI (TRUNK)
AIS (DS1)	ERFI-P-CONN (STSMON)	RFI (TRUNK)
AIS (DS3)	ERFI-P-CONN (STSTRM)	RFI-L (EC1)
AIS (E1)	ERFI-P-PAYLD (STSMON)	RFI-L (OCN)
AIS (FUDC)	ERFI-P-PAYLD (STSTRM)	RFI-L (TRUNK)
AIS (MSUDC)	ERFI-P-SRVR (STSMON)	RFI-P (STSMON)
AIS (TRUNK)	ERFI-P-SRVR (STSTRM)	RFI-P (STSTRM)
AIS-L (EC1)	NON-CISCO-PPM (PPM)	RFI-V (VT-MON)
AIS-L (OCN)	ODUK-1-AIS-PM (TRUNK)	RFI-V (VT-TERM)
AIS-L (TRUNK)	ODUK-2-AIS-PM (TRUNK)	ROLL-PEND (STSTRM)
AIS-P (STSMON)	ODUK-3-AIS-PM (TRUNK)	TX-AIS (DS1)
AIS-P (STSTRM)	ODUK-4-AIS-PM (TRUNK)	TX-AIS (DS3)
AIS-V (VT-MON)	ODUK-AIS-PM (TRUNK)	TX-AIS (E1)
AIS-V (VT-TERM)	ODUK-BDI-PM (TRUNK)	TX-LOF (DS1)
AUTOSW-AIS (STSMON)	ODUK-LCK-PM (TRUNK)	TX-LOF (E1)
AUTOSW-AIS (VT-MON)	ODUK-OCI-PM (TRUNK)	UNQUAL-PPM (PPM)
BERT-ENBL (DS1, DS3)	OTUK-AIS (TRUNK)	_

Alarms and Conditions Listed By Alphabetical Entry

Table 2-6 alphabetically lists all ONS 15454 alarms and conditions.

Table 2-6: ONS 15454 Alarm and Condition Alphabetical List

ADD-OPWR-HDEG (OCH)	GFP-EX-MISMATCH (GFP-FAC)	PLM-P (STSTRM)
ADD-OPWR-HFAIL (OCH)	GFP-LFD (CE1000)	PLM-V (VT-MON)
ADD-OPWR-LDEG (OCH)	GFP-LFD (CE100T)	PLM-V (VT-TERM)
ADD-OPWR-LFAIL (OCH)	GFP-LFD (CEMR)	PMI (OMS)
AIS (BITS)	GFP-LFD (FCMR)	PMI (OTS)
AIS (DS1)	GFP-LFD (ML1000)	PORT-FAIL (OCH)
AIS (DS3)	GFP-LFD (ML100T)	PORT-MISMATCH (CEMR)
AIS (E1)	GFP-LFD (MLFX)	PORT-MISMATCH (FCMR)
AIS (FUDC)	GFP-LFD (MLMR)	PORT-MISMATCH (MLMR)
AIS (MSUDC)	GFP-NO-BUFFERS (FCMR)	PRC-DUPID (OCN)
AIS (TRUNK)	GFP-NO-BUFFERS (GFP-FAC)	PROTNA (EQPT)
AIS-L (EC1)	GFP-UP-MISMATCH (CE1000)	PROV-MISMATCH (PPM)
AIS-L (OCN)	GFP-UP-MISMATCH (CE100T)	PROV-MISMATCH (TRUNK)
AIS-L (TRUNK)	GFP-UP-MISMATCH (CEMR)	PTIM (TRUNK)
AIS-P (STSMON)	GFP-UP-MISMATCH (FCMR)	PWR-FAIL-A (EQPT)
AIS-P (STSTRM)	GFP-UP-MISMATCH (GFP-FAC)	PWR-FAIL-B (EQPT)
AIS-V (VT-MON)	GFP-UP-MISMATCH (ML1000)	PWR-FAIL-RET-A (EQPT)
AIS-V (VT-TERM)	GFP-UP-MISMATCH (ML100T)	PWR-FAIL-RET-B (EQPT)
ALS (2R)	GFP-UP-MISMATCH (MLFX)	RAI (DS1)
ALS (AOTS)	GFP-UP-MISMATCH (MLMR)	RAI (DS3)

ALS (ESCON)	HELLO (OCN)	RAI (E1)
ALS (FC)	HELLO (TRUNK)	RCVR-MISS (DS1)
ALS (GE)	HIBATVG (PWR)	RCVR-MISS (E1)
ALS (ISC)	HI-CCVOLT (BITS)	RSV-RT-EXCD-RINGLET0 (RPRIF)
ALS (OCN)	HI-LASERBIAS (2R)	RSV-RT-EXCD-RINGLET1 (RPRIF)
ALS (TRUNK)	HI-LASERBIAS (EQPT)	RFI (TRUNK)
ALS-DISABLED (EQPT)	HI-LASERBIAS (ESCON)	RFI-L (EC1)
AMPLI-INIT (AOTS)	HI-LASERBIAS (FC)	RFI-L (OCN)
APC-CORR-SKIPPED (AOTS)	HI-LASERBIAS (GE)	RFI-L (TRUNK)
APC-CORR-SKIPPED (OCH)	HI-LASERBIAS (ISC)	RFI-P (STSMON)
APC-CORR-SKIPPED (OMS)	HI-LASERBIAS (OCN)	RFI-P (STSTRM)
APC-CORR-SKIPPED (OTS)	HI-LASERBIAS (PPM)	RFI-V (VT-MON)
APC-DISABLED (AOTS)	HI-LASERBIAS (TRUNK)	RFI-V (VT-TERM)
APC-DISABLED (EQPT)	HI-LASERTEMP (EQPT)	RING-ID-MIS (OCN)
APC-DISABLED (NE)	HI-LASERTEMP (OCN)	RING-ID-MIS (OSC-RING)
APC-DISABLED (OCH)	HI-LASERTEMP (PPM)	RING-MISMATCH (OCN)
APC-DISABLED (OMS)	HI-RXPOWER (2R)	RING-SW-EAST (OCN)
APC-DISABLED (OTS)	HI-RXPOWER (ESCON)	RING-SW-WEST (OCN)
APC-DISABLED (SHELF)	HI-RXPOWER (FC)	ROLL (STSMON)
APC-END (NE)	HI-RXPOWER (GE)	ROLL (STSTRM)
APC-OUT-OF-RANGE (AOTS)	HI-RXPOWER (ISC)	ROLL (VT-MON)
APC-OUT-OF-RANGE (OCH)	HI-RXPOWER (OCN)	ROLL (VT-TERM)
APC-OUT-OF-RANGE (OMS)	HI-RXPOWER (TRUNK)	ROLL-PEND (STSMON)
APC-OUT-OF-RANGE (OTS)	HITEMP (EQPT)	ROLL-PEND (STSTRM)
APC-WRONG-GAIN (AOTS)	HITEMP (NE)	ROLL-PEND (VT-MON)
APSB (OCN)	HI-TXPOWER (2R)	ROLL-PEND (VT-TERM)
APSCDFLTK (OCN)	HI-TXPOWER (EQPT)	RPR-PASSTHR (RPRIF)
APSC-IMP (OCN)	HI-TXPOWER (ESCON)	RPR-PEER-MISS (RPRIF)
APSCINCON (OCN)	HI-TXPOWER (FC)	RPR-PROT-ACTIVE (RPRIF)
APSCM (OCN)	HI-TXPOWER (GE)	RPR-PROT-CONFIG-MISM (RPRIF)
APSCNMIS (OCN)	HI-TXPOWER (ISC)	RPR-RI-FAIL (RPRIF)
APSIMP (OCN)	HI-TXPOWER (OCN)	RPR-SD (ML1000)
APS-INV-PRIM (OCN)	HI-TXPOWER (PPM)	RPR-SD (ML100T)
APSM (OCN)	HI-TXPOWER (TRUNK)	RPR-SD (MLFX)
APS-PRIM-FAC (OCN)	HLDOVRSYNC (NE-SREF)	RPR-SD (MLMR)
APS-PRIM-SEC-MISM (OCN)	IDLE (DS1)	RPR-SF (ML1000)
AS-CMD (2R)	I-HITEMP (NE)	RPR-SF (ML100T)
AS-CMD (AOTS)	ILK-FAIL (TRUNK)	RPR-SF (MLFX)
AS-CMD (BPLANE)	IMPROPRMVL (EQPT)	RPR-SF (MLMR)
AS-CMD (CE1000)	IMPROPRMVL (PPM)	RPR-SPAN-MISMATCH (ML1000)

Table 2-6: ONS 15454 Alarm and Condition Alphabetical List

AS-CMD (CE100T)	INC-ISD (DS3)	RPR-SPAN-MISMATCH (ML100T)
AS-CMD (CEMR)	INHSWPR (EQPT)	RPR-SPAN-MISMATCH (MLFX)
AS-CMD (DS1)	INHSWWKG (EQPT)	RPR-SPAN-MISMATCH (MLMR)
AS-CMD (DS3)	INTRUSION-PSWD (NE)	RPRW (ML1000)
AS-CMD (E1)	INVMACADR (AIP)	RPRW (ML100T)
AS-CMD (E1000F)	IOSCFGCOPY (EQPT)	RPRW (MLFX)
AS-CMD (E100T)	ISIS-ADJ-FAIL (OCN)	RUNCFG-SAVENEED (EQPT)
AS-CMD (EC1)	ISIS-ADJ-FAIL (TRUNK)	SD (DS1)
AS-CMD (EQPT)	KB-PASSTHR (OCN)	SD (DS3)
AS-CMD (ESCON)	KBYTE-APS-CHAN-FAIL (OCN)	SD (TRUNK)
AS-CMD (FC)	LAN-POL-REV (NE)	SD-L (EC1)
AS-CMD (FCMR)	LASER-APR (AOTS)	SD-L (OCN)
AS-CMD (G1000)	LASERBIAS-DEG (AOTS)	SD-L (TRUNK)
AS-CMD (GE)	LASERBIAS-DEG (OTS)	SD-P (STSMON)
AS-CMD (GFP-FAC)	LASERBIAS-FAIL (AOTS)	SD-P (STSTRM)
AS-CMD (ISC)	LASEREOL (OCN)	SD-V (VT-MON)
AS-CMD (ML1000)	LASERTEMP-DEG (AOTS)	SD-V (VT-TERM)
AS-CMD (ML100T)	LCAS-CRC (STSTRM)	SF (DS1)
AS-CMD (MLFX)	LCAS-CRC (VT-TERM)	SF (DS3)
AS-CMD (MLMR)	LCAS-RX-DNU (STSTRM)	SF (TRUNK)
AS-CMD (NE)	LCAS-RX-DNU (VT-TERM)	SF-L (EC1)
AS-CMD (OCH)	LCAS-RX-FAIL (STSTRM)	SF-L (OCN)
AS-CMD (OCN)	LCAS-RX-FAIL (VT-TERM)	SF-L (TRUNK)
AS-CMD (OMS)	LCAS-RX-GRP-ERR (STSTRM)	SF-P (STSMON)
AS-CMD (OTS)	LCAS-RX-GRP-ERR (VT-TERM)	SF-P (STSTRM)
AS-CMD (PPM)	LCAS-TX-ADD (STSTRM)	SFTWDOWN (EQPT)
AS-CMD (PWR)	LCAS-TX-ADD (VT-TERM)	SF-V (VT-MON)
AS-CMD (SHELF)	LCAS-TX-DNU (STSTRM)	SF-V (VT-TERM)
AS-CMD (TRUNK)	LCAS-TX-DNU (VT-TERM)	SHELF-COMM-FAIL (SHELF)
AS-MT (2R)	LINK-KEEPALIVE (ML1000)	SH-IL-VAR-DEG-HIGH (OTS)
AS-MT (AOTS)	LINK-KEEPALIVE (ML100T)	SH-IL-VAR-DEG-LOW (OTS)
AS-MT (CE1000)	LINK-KEEPALIVE (MLFX)	SHUTTER-OPEN (OTS)
AS-MT (CE100T)	LINK-KEEPALIVE (MLMR)	SIGLOSS (ESCON)
AS-MT (CEMR)	LKOUTPR-S (OCN)	SIGLOSS (FC)
AS-MT (DS1)	LMP-FAIL (CTRL)	SIGLOSS (FCMR)
AS-MT (DS3)	LMP-FAIL (GE)	SIGLOSS (GE)
AS-MT (E1)	LMP-FAIL (OCN)	SIGLOSS (ISC)
AS-MT (EC1)	LMP-FAIL (TLINK)	SIGLOSS (TRUNK)
AS-MT (EQPT)	LMP-SD (GE)	SNTP-HOST (NE)
AS-MT (ESCON)	LMP-SD (OCN)	SPANLEN-OUT-OF-RANGE (OTS)

Table 2-6: ONS 15454 Alarm and Condition Alphabetical List

AS-MT (FC)	LMP-SF (GE)	SPAN-NOT-MEASURED (OTS)
AS-MT (FCMR)	LMP-SF (OCN)	SPAN-SW-EAST (OCN)
AS-MT (G1000)	LMP-UNALLOC (GE)	SPAN-SW-WEST (OCN)
AS-MT (GE)	LMP-UNALLOC (OCN)	SQM (STSTRM)
AS-MT (GFP-FAC)	LOA (VCG)	SQM (VT-TERM)
AS-MT (ISC)	LOCKOUT-REQ (2R)	SQUELCH (OCN)
AS-MT (ML1000)	LOCKOUT-REQ (EQPT)	SQUELCHED (2R)
AS-MT (ML100T)	LOCKOUT-REQ (ESCON)	SQUELCHED (ESCON)
AS-MT (MLFX)	LOCKOUT-REQ (FC)	SQUELCHED (FC)
AS-MT (MLMR)	LOCKOUT-REQ (GE)	SQUELCHED (GE)
AS-MT (OCH)	LOCKOUT-REQ (ISC)	SQUELCHED (ISC)
AS-MT (OCN)	LOCKOUT-REQ (OCN)	SQUELCHED (OCN)
AS-MT (OMS)	LOCKOUT-REQ (STSMON)	SQUELCHED (TRUNK)
AS-MT (OTS)	LOCKOUT-REQ (TRUNK)	SSM-DUS (BITS)
AS-MT (PPM)	LOCKOUT-REQ (VT-MON)	SSM-DUS (DS1)
AS-MT (SHELF)	LOF (BITS)	SSM-DUS (E1)
AS-MT (TRUNK)	LOF (DS1)	SSM-DUS (OCN)
AS-MT-OOG (STSTRM)	LOF (DS3)	SSM-DUS (TRUNK)
AS-MT-OOG (VT-TERM)	LOF (E1)	SSM-FAIL (BITS)
AUD-LOG-LOSS (NE)	LOF (EC1)	SSM-FAIL (DS1)
AUD-LOG-LOW (NE)	LOF (OCN)	SSM-FAIL (E1)
AUTOLSROFF (OCN)	LOF (STSTRM)	SSM-FAIL (OCN)
AUTONEG-RFI (ML1000)	LOF (TRUNK)	SSM-FAIL (TRUNK)
AUTORESET (EQPT)	LO-LASERBIAS (EQPT)	SSM-LNC (BITS)
AUTOSW-AIS (STSMON)	LO-LASERBIAS (OCN)	SSM-LNC (NE-SREF)
AUTOSW-AIS (VT-MON)	LO-LASERBIAS (PPM)	SSM-LNC (OCN)
AUTOSW-LOP (STSMON)	LO-LASERTEMP (EQPT)	SSM-LNC (TRUNK)
AUTOSW-LOP (VT-MON)	LO-LASERTEMP (OCN)	SSM-OFF (BITS)
AUTOSW-PDI (STSMON)	LO-LASERTEMP (PPM)	SSM-OFF (DS1)
AUTOSW-PDI (VT-MON)	LOM (STSMON)	SSM-OFF (E1)
AUTOSW-SDBER (STSMON)	LOM (STSTRM)	SSM-OFF (OCN)
AUTOSW-SDBER (VT-MON)	LOM (TRUNK)	SSM-OFF (TRUNK)
AUTOSW-SFBER (STSMON)	LOM (VT-TERM)	SSM-PRC (BITS)
AUTOSW-SFBER (VT-MON)	LOP-P (STSMON)	SSM-PRC (NE-SREF)
AUTOSW-UNEQ (STSMON)	LOP-P (STSTRM)	SSM-PRC (OCN)
AUTOSW-UNEQ (VT-MON)	LOP-V (VT-MON)	SSM-PRC (TRUNK)
AWG-DEG (OTS)	LOP-V (VT-TERM)	SSM-PRS (BITS)
AWG-FAIL (OTS)	LO-RXPOWER (2R)	SSM-PRS (DS1)
AWG-OVERTEMP (OTS)	LO-RXPOWER (ESCON)	SSM-PRS (E1)
AWG-WARM-UP (OTS)	LO-RXPOWER (FC)	SSM-PRS (NE-SREF)
BAT-FAIL (PWR)	LO-RXPOWER (GE)	SSM-PRS (OCN)
BERT-ENBL (DS1, DS3)	LO-RXPOWER (ISC)	SSM-PRS (TRUNK)
BERT-SYNC-FAIL (DS1, DS3)	LO-RXPOWER (OCN)	SSM-RES (BITS)

Table 2-6: ONS 15454 Alarm and Condition Alphabetical List

BKUPMEMP (EQPT)	LO-RXPOWER (TRUNK)	SSM-RES (DS1)
BLSROSYNC (OCN)	LOS (2R)	SSM-RES (E1)
BLSR-SW-VER-MISM (OCN)	LOS (BITS)	SSM-RES (NE-SREF)
BPV (BITS)	LOS (DS1)	SSM-RES (OCN)
CARLOSS (CE1000)	LOS (DS3)	SSM-RES (TRUNK)
CARLOSS (CE100T)	LOS (E1)	SSM-SDH-TN (BITS)
CARLOSS (CEMR)	LOS (EC1)	SSM-SDH-TN (NE-SREF)
CARLOSS (E1000F)	LOS (ESCON)	SSM-SDH-TN (OCN)
CARLOSS (E100T)	LOS (FUDC)	SSM-SDH-TN (TRUNK)
CARLOSS (EQPT)	LOS (ISC)	SSM-SETS (BITS)
CARLOSS (FC)	LOS (MSUDC)	SSM-SETS (NE-SREF)
CARLOSS (G1000)	LOS (OCN)	SSM-SETS (OCN)
CARLOSS (GE)	LOS (OTS)	SSM-SETS (TRUNK)
CARLOSS (ISC)	LOS (TRUNK)	SSM-SMC (BITS)
CARLOSS (ML1000)	LOS-O (OCH)	SSM-SMC (DS1)
CARLOSS (ML100T)	LOS-O (OMS)	SSM-SMC (E1)
CARLOSS (MLFX)	LOS-O (OTS)	SSM-SMC (NE-SREF)
CARLOSS (MLMR)	LOS-P (OCH)	SSM-SMC (OCN)
CARLOSS (TRUNK)	LOS-P (OMS)	SSM-SMC (TRUNK)
CASETEMP-DEG (AOTS)	LOS-P (OTS)	SSM-ST2 (BITS)
CLDRESTART (EQPT)	LOS-P (TRUNK)	SSM-ST2 (DS1)
COMIOXC (EQPT)	LO-TXPOWER (2R)	SSM-ST2 (E1)
COMM-FAIL (EQPT)	LO-TXPOWER (EQPT)	SSM-ST2 (NE-SREF)
CONTBUS-A-18 (EQPT)	LO-TXPOWER (ESCON)	SSM-ST2 (OCN)
CONTBUS-B-18 (EQPT)	LO-TXPOWER (FC)	SSM-ST2 (TRUNK)
CONTBUS-DISABLED (EQPT)	LO-TXPOWER (GE)	SSM-ST3 (BITS)
CONTBUS-IO-A (EQPT)	LO-TXPOWER (ISC)	SSM-ST3 (DS1)
CONTBUS-IO-B (EQPT)	LO-TXPOWER (OCN)	SSM-ST3 (E1)
CPP-INCAPABLE (MLMR)	LO-TXPOWER (PPM)	SSM-ST3 (NE-SREF)
CTNEQPT-MISMATCH (EQPT)	LO-TXPOWER (TRUNK)	SSM-ST3 (OCN)
CTNEQPT-PBPROT (EQPT)	LPBKCRS (STSMON)	SSM-ST3 (TRUNK)
CTNEQPT-PBWORK (EQPT)	LPBKCRS (STSTRM)	SSM-ST3E (BITS)
DATA-CRC (CE100T)	LPBKDS1FE-CMD (DS1)	SSM-ST3E (DS1)
DATA-CRC (ML1000)	LPBKDS3FEAC (DS3)	SSM-ST3E (E1)
DATA-CRC (ML100T)	LPBKDS3FEAC-CMD (DS3)	SSM-ST3E (NE-SREF)
DATA-CRC (MLFX)	LPBKFACILITY (CE1000)	SSM-ST3E (OCN)
DATAFLT (NE)	LPBKFACILITY (CE100T)	SSM-ST3E (TRUNK)
DBOSYNC (NE)	LPBKFACILITY (CEMR)	SSM-ST4 (BITS)
DCU-LOSS-FAIL (OTS)	LPBKFACILITY (DS1)	SSM-ST4 (DS1)
DS3-MISM (DS3)	LPBKFACILITY (DS3)	SSM-ST4 (E1)
DSP-COMM-FAIL (TRUNK)	LPBKFACILITY (E1)	SSM-ST4 (NE-SREF)
DSP-FAIL (TRUNK)	LPBKFACILITY (EC1)	SSM-ST4 (OCN)
DUP-IPADDR (NE)	LPBKFACILITY (ESCON)	SSM-ST4 (TRUNK)
DUP-NODENAME (NE)	LPBKFACILITY (FC)	SSM-STU (BITS)

Table 2-6: ONS 15454 Alarm and Condition Alphabetical List

DUP-SHELF-ID (SHELF)	LPBKFACILITY (FCMR)	SSM-STU (DS1)
EHIBATVG (PWR)	LPBKFACILITY (G1000)	SSM-STU (E1)
ELWBATVG (PWR)	LPBKFACILITY (GE)	SSM-STU (NE-SREF)
ENCAP-MISMATCH-P (STSTRM)	LPBKFACILITY (ISC)	SSM-STU (OCN)
EOC (OCN)	LPBKFACILITY (MLMR)	SSM-STU (TRUNK)
EOC (TRUNK)	LPBKFACILITY (OCN)	SSM-TNC (BITS)
EOC-L (OCN)	LPBKFACILITY (TRUNK)	SSM-TNC (NE-SREF)
EOC-L (TRUNK)	LPBKTERMINAL (CE1000)	SSM-TNC (OCN)
EQPT (AICI-AEP)	LPBKTERMINAL (CE100T)	SSM-TNC (TRUNK)
EQPT (AICI-AIE)	LPBKTERMINAL (CEMR)	STS-SQUELCH-L (OCN)
EQPT (EQPT)	LPBKTERMINAL (DS1)	SW-MISMATCH (EQPT)
EQPT (PPM)	LPBKTERMINAL (DS3)	SWMTXMOD-PROT (EQPT)
EQPT-DIAG (EQPT)	LPBKTERMINAL (E1)	SWMTXMOD-WORK (EQPT)
EQPT-MISS (FAN)	LPBKTERMINAL (EC1)	SWTOPRI (EXT-SREF)
ERFI-P-CONN (STSMON)	LPBKTERMINAL (ESCON)	SWTOPRI (NE-SREF)
ERFI-P-CONN (STSTRM)	LPBKTERMINAL (FC)	SWTOSEC (EXT-SREF)
ERFI-P-PAYLD (STSMON)	LPBKTERMINAL (FCMR)	SWTOSEC (NE-SREF)
ERFI-P-PAYLD (STSTRM)	LPBKTERMINAL (G1000)	SWTOTHIRD (EXT-SREF)
ERFI-P-SRVR (STSMON)	LPBKTERMINAL (GE)	SWTOTHIRD (NE-SREF)
ERFI-P-SRVR (STSTRM)	LPBKTERMINAL (ISC)	SYNC-FREQ (BITS)
ERROR-CONFIG (EQPT)	LPBKTERMINAL (MLMR)	SYNC-FREQ (DS1)
ETH-LINKLOSS (NE)	LPBKTERMINAL (OCN)	SYNC-FREQ (E1)
E-W-MISMATCH (OCN)	LPBKTERMINAL (TRUNK)	SYNC-FREQ (OCN)
EXCCOL (EQPT)	LWBATVG (PWR)	SYNC-FREQ (TRUNK)
EXERCISE-RING-FAIL (OCN)	MAN-REQ (EQPT)	SYNCLOSS (FC)
EXERCISE-SPAN-FAIL (OCN)	MAN-REQ (ML1000)	SYNCLOSS (FCMR)
EXT (ENVALRM)	MAN-REQ (ML100T)	SYNCLOSS (GE)
EXTRA-TRAF-PREEMPT (OCN)	MAN-REQ (MLFX)	SYNCLOSS (ISC)
FAILTOSW (2R)	MAN-REQ (MLMR)	SYNCLOSS (TRUNK)
FAILTOSW (EQPT)	MAN-REQ (STSMON)	SYNCPRI (EXT-SREF)
FAILTOSW (ESCON)	MAN-REQ (VT-MON)	SYNCPRI (NE-SREF)
FAILTOSW (FC)	MANRESET (EQPT)	SYNCSEC (EXT-SREF)
FAILTOSW (GE)	MANSWTOINT (NE-SREF)	SYNCSEC (NE-SREF)
FAILTOSW (ISC)	MANSWTOPRI (EXT-SREF)	SYNCTHIRD (EXT-SREF)
FAILTOSW (OCN)	MANSWTOPRI (NE-SREF)	SYNCTHIRD (NE-SREF)
FAILTOSW (TRUNK)	MANSWTOSEC (EXT-SREF)	SYSBOOT (NE)
FAILTOSW-PATH (STSMON)	MANSWTOSEC (NE-SREF)	TEMP-MISM (NE)
FAILTOSW-PATH (VT-MON)	MANSWTOHIRD (EXT-SREF)	TIM (OCN)
FAILTOSWR (OCN)	MANSWTOHIRD (NE-SREF)	TIM (TRUNK)
FAILTOSWS (OCN)	MANUAL-REQ-RING (OCN)	TIM-MON (OCN)
FAN (FAN)	MANUAL-REQ-SPAN (2R)	TIM-MON (TRUNK)
FAPS (FCMR)	MANUAL-REQ-SPAN (EC1)	TIM-P (STSMON)
FAPS (TRUNK)	MANUAL-REQ-SPAN (ESCON)	TIM-P (STSTRM)
FAPS-CONFIG-MISMATCH (EQPT)	MANUAL-REQ-SPAN (FC)	TIM-S (EC1)

Table 2-6: ONS 15454 Alarm and Condition Alphabetical List

FC-DE-NES (FC)	MANUAL-REQ-SPAN (GE)	TIM-S (OCN)
FC-DE-NES (FCMR)	MANUAL-REQ-SPAN (ISC)	TIM-V (VT-MON)
FC-DE-NES (TRUNK)	MANUAL-REQ-SPAN (OCN)	TIM-V (VT-TERM)
FC-NO-CREDITS (FC)	MANUAL-REQ-SPAN (TRUNK)	TPTFAIL (CE1000)
FC-NO-CREDITS (FCMR)	MAX-STATIONS (RPRIF)	TPTFAIL (CE100T)
FC-NO-CREDITS (TRUNK)	MEA (AIP)	TPTFAIL (CEMR)
FDI (OCH)	MEA (BIC)	TPTFAIL (FCMR)
FDI (OCH-TERM)	MEA (EQPT)	TPTFAIL (G1000)
FE-AIS (DS3)	MEA (FAN)	TPTFAIL (ML1000)
FEC-MISM (TRUNK)	MEA (PPM)	TPTFAIL (ML100T)
FE-DS1-MULTLOS (DS3)	MEA (SHELF)	TPTFAIL (MLFX)
FE-DS1-NSA (DS3)	MEM-GONE (EQPT)	TPTFAIL (MLMR)
FE-DS1-SA (DS3)	MEM-LOW (EQPT)	TRAIL-SIGNAL-FAIL (OCH)
FE-DS1-SNGLLOS (DS3)	MFGMEM (AICI-AEP)	TRAIL-SIGNAL-FAIL (TRUNK)
FE-DS3-NSA (DS3)	MFGMEM (AICI-AIE)	TRMT (DS1)
FE-DS3-SA (DS3)	MFGMEM (AIP)	TRMT (E1)
FE-EQPT-NSA (DS3)	MFGMEM (BPLANE)	TRMT-MISS (DS1)
FE-FRCDWKSWBK-SPAN (OCN)	MFGMEM (FAN)	TRMT-MISS (E1)
FE-FRCDWKSWPR-RING (EC1)	MFGMEM (PPM)	TX-AIS (DS1)
FE-FRCDWKSWPR-RING (OCN)	MS-DEG (E1)	TX-AIS (DS3)
FE-FRCDWKSWPR-SPAN (OCN)	MS-EXC (E1)	TX-AIS (E1)
FE-IDLE (DS3)	MT-OCHNC (OTS)	TX-IDLE (DS1)
FE-LOCKOUTOFPR-SPAN (OCN)	NO-CONFIG (EQPT)	TX-LOF (DS1)
FE-LOF (DS3)	NON-CISCO-PPM (PPM)	TX-LOF (E1)
FE-LOS (DS3)	OCHNC-INC (OCHNC-CONN)	TX-RAI (DS1)
FE-MANWKSWBK-SPAN (OCN)	OCHTERM-INC (OCH-TERM)	TX-RAI (DS3)
FE-MANWKSWPR-RING (EC1)	ODUK-1-AIS-PM (TRUNK)	TX-RAI (E1)
FE-MANWKSWPR-RING (OCN)	ODUK-2-AIS-PM (TRUNK)	UNC-WORD (TRUNK)
FE-MANWKSWPR-SPAN (OCN)	ODUK-3-AIS-PM (TRUNK)	UNEQ-P (STSMON)
FEPRLF (OCN)	ODUK-4-AIS-PM (TRUNK)	UNEQ-P (STSTRM)
FIBERTEMP-DEG (AOTS)	ODUK-AIS-PM (TRUNK)	UNEQ-V (VT-MON)
FORCED-REQ (EQPT)	ODUK-BDI-PM (TRUNK)	UNEQ-V (VT-TERM)
FORCED-REQ (ML1000)	ODUK-LCK-PM (TRUNK)	UNQUAL-PPM (PPM)
FORCED-REQ (ML100T)	ODUK-OCI-PM (TRUNK)	UT-COMM-FAIL (TRUNK)
FORCED-REQ (MLFX)	ODUK-SD-PM (TRUNK)	UT-FAIL (TRUNK)
FORCED-REQ (MLMR)	ODUK-SF-PM (TRUNK)	VCG-DEG (VCG)
FORCED-REQ (STSMON)	ODUK-TIM-PM (TRUNK)	VCG-DOWN (VCG)
FORCED-REQ (VT-MON)	OOU-TPT (STSTRM)	VOA-HDEG (AOTS)
FORCED-REQ-RING (OCN)	OOU-TPT (VT-TERM)	VOA-HDEG (OCH)
FORCED-REQ-SPAN (2R)	OPEN-SLOT (EQPT)	VOA-HDEG (OMS)
FORCED-REQ-SPAN (EC1)	OPWR-HDEG (AOTS)	VOA-HDEG (OTS)
FORCED-REQ-SPAN (ESCON)	OPWR-HDEG (OCH)	VOA-HFAIL (AOTS)
FORCED-REQ-SPAN (FC)	OPWR-HDEG (OCH-TERM)	VOA-HFAIL (OCH)

Table 2-6: ONS 15454 Alarm and Condition Alphabetical List

FORCED-REQ-SPAN (GE)	OPWR-HDEG (OMS)	VOA-HFAIL (OMS)
FORCED-REQ-SPAN (ISC)	OPWR-HDEG (OTS)	VOA-HFAIL (OTS)
FORCED-REQ-SPAN (OCN)	OPWR-HFAIL (AOTS)	VOA-LDEG (AOTS)
FORCED-REQ-SPAN (TRUNK)	OPWR-HFAIL (OCH)	VOA-LDEG (OCH)
FP-LINK-LOSS (EQPT)	OPWR-HFAIL (OMS)	VOA-LDEG (OMS)
FRCDSWTOINT (NE-SREF)	OPWR-HFAIL (OTS)	VOA-LDEG (OTS)
FRCDSWTOPRI (EXT-SREF)	OPWR-LDEG (AOTS)	VOA-LFAIL (AOTS)
FRCDSWTOPRI (NE-SREF)	OPWR-LDEG (OCH)	VOA-LFAIL (OCH)
FRCDSWTOSEC (EXT-SREF)	OPWR-LDEG (OCH-TERM)	VOA-LFAIL (OMS)
FRCDSWTOSEC (NE-SREF)	OPWR-LDEG (OMS)	VOA-LFAIL (OTS)
FRCDSWTO THIRD (EXT-SREF)	OPWR-LDEG (OTS)	VOLT-MISM (PWR)
FRCDSWTO THIRD (NE-SREF)	OPWR-LFAIL (AOTS)	VT-SQUELCH-L (OCN)
FRNGSYNC (NE-SREF)	OPWR-LFAIL (OCH)	WKS WPR (2R)
FSTSYNC (NE-SREF)	OPWR-LFAIL (OCH-TERM)	WKS WPR (EQPT)
FTA-MISMATCH (EQPT)	OPWR-LFAIL (OMS)	WKS WPR (ESCON)
FULLPASSTHR-BI (OCN)	OPWR-LFAIL (OTS)	WKS WPR (FC)
GAIN-HDEG (AOTS)	OSRION (AOTS)	WKS WPR (GE)
GAIN-HFAIL (AOTS)	OSRION (OTS)	WKS WPR (ISC)
GAIN-LDEG (AOTS)	OTUK-AIS (TRUNK)	WKS WPR (OCN)
GAIN-LFAIL (AOTS)	OTUK-BDI (TRUNK)	WKS WPR (STSMON)
GCC-EOC (TRUNK)	OTUK-IAE (TRUNK)	WKS WPR (VT-MON)
GE-OOSYNC (FC)	OTUK-LOF (TRUNK)	WORK-QUEUE-FULL (EQPT)
GE-OOSYNC (GE)	OTUK-SD (TRUNK)	WTR (2R)
GE-OOSYNC (ISC)	OTUK-SF (TRUNK)	WTR (EC1)
GE-OOSYNC (TRUNK)	OTUK-TIM (TRUNK)	WTR (EQPT)
GFP-CSF (CE1000)	OUT-OF-SYNC (FC)	WTR (ESCON)
GFP-CSF (CE100T)	OUT-OF-SYNC (GE)	WTR (FC)
GFP-CSF (CEMR)	OUT-OF-SYNC (ISC)	WTR (GE)
GFP-CSF (FCMR)	OUT-OF-SYNC (TRUNK)	WTR (ISC)
GFP-CSF (GFP-FAC)	PARAM-MISM (AOTS)	WTR (ML1000)
GFP-CSF (ML1000)	PARAM-MISM (OCH)	WTR (ML100T)
GFP-CSF (ML100T)	PARAM-MISM (OCH-TERM)	WTR (MLFX)
GFP-CSF (MLFX)	PARAM-MISM (OMS)	WTR (MLMR)
GFP-CSF (MLMR)	PARAM-MISM (OTS)	WTR (OCN)
GFP-DE-MISMATCH (FCMR)	PDI-P (STSMON)	WTR (STSMON)
GFP-DE-MISMATCH (GFP-FAC)	PDI-P (STSTRM)	WTR (TRUNK)
GFP-EX-MISMATCH (CE1000)	PEER-NORESPONSE (MLMR)	WTR (VT-MON)
GFP-EX-MISMATCH (FCMR)	PLM-P (STSMON)	WVL-MISMATCH (TRUNK)

Alarm Logical Objects

The CTC alarm profile list organizes all alarms and conditions according to the logical objects they are raised against. These logical objects represent physical objects such as cards, logical objects such as circuits, or transport and signal monitoring entities such as the SONET or ITU-T G.709 optical overhead bits. One alarm can appear in multiple entries. It can be raised against multiple objects. For example, the loss of signal (LOS)

alarm can be raised against the optical signal (OC-N) or the optical transport layer overhead (OTN) as well as other objects. Therefore, both OCN: LOS and OTN: LOS appear in the list (as well as the other objects).

Alarm profile list objects are defined in [Table 2-7](#).

Note: Alarm logical object names can appear as abbreviated versions of standard terms used in the system and the documentation. For example, the "OCN" logical object refers to the OC-N signal. Logical object names or industry-standard terms are used within the entries as appropriate.

Table 2-7: Alarm Logical Object Type Definitions

Logical Object	Definition
2R	Reshape and retransmit (used for transponder [TXP] cards).
AICI-AEP	Alarm Interface Controller-International/alarm expansion panel. A combination term that refers to this platform's AIC-I card.
AICI-AIE	Alarm Interface Controller-International/Alarm Interface Extension. A combination term that refers to this platform's AIC-I card.
AIP	Alarm Interface Panel.
AOTS	Amplified optical transport section. For information about AOTS alarms, refer to the "Alarm Troubleshooting" chapter in the <i>Cisco ONS 15454 DWDM Troubleshooting Guide</i> .
BIC	Backplane interface connector.
BITS	Building integrated timing supply incoming references (BITS-1, BITS-2).
BPLANE	The backplane.
CE1000	CE-1000-4 card.
CE100T	CE-100T-8 card.
CEMR	CE-MR-10 card.
CTRL	Control channel.
DS1	A DS-1 line on a DS-1 or DS-3 electrical card (DS1-14, DS3N-12E, DS3XM-6, DS3XM-12).
DS3	A DS-3 line on a DS3-12, DS3N-12, DS3-12E, DS3XM-6, DS3XM-12, DS3/EC1-48 card.
E1	An E1 line on a DS1/E1-56 card.
E1000F	An E1000 Ethernet card (E1000-2, E1000-2G).
E100T	An E100 Ethernet card (E100T-12, E100T-G).
EC1	Any EC-1 port (including EC1-12 card ports).
ENVALRM	An environmental alarm port.
EQPT	A card, its physical objects, and its logical objects as they are located in any of the eight noncommon card slots. The EQPT object is used for alarms that refer to the card itself and all other objects on the card including ports, lines, synchronous transport signals (STS), and virtual tributaries (VT).
ESCON	Enterprise System Connection fiber optic technology, referring to the following TXP cards: TXP_MR_2.5G, TXPP_MR_2.5G. For more information about ESCON alarms, refer to the "Alarm Troubleshooting" chapter in the <i>Cisco ONS 15454 DWDM Troubleshooting Guide</i> .
EXT-SREF	BITS outgoing references (SYNC-BITS1, SYNC-BITS2).
FAN	Fan-tray assembly.
FC	Fibre channel data transfer architecture, referring to the following muxponder (MXP) or TXP cards: MXP_MR_2.5G, MXPP_MR_2.5G, TXP_MR_2.5G, TXPP_MR_2.5G, TXP_MR_10E. For more information about FC alarms, refer to the "Alarm

	Troubleshooting" chapter in the <i>Cisco ONS 15454 DWDM Troubleshooting Guide</i> .
FCMR	An FC_MR-4 Fibre Channel card.
FUDC	SONET F1 byte user data channel for ONS 15454 ML-Series Ethernet cards.
G1000	A G-Series Ethernet card.
GE	Gigabit Ethernet, referring to the following MXP or TXP cards: MXP_MR_2.5G, MXPP_MR_2.5G, TXP_MR_2.5G, TXPP_MR_2.5G, TXP_MR_10E, TXP_MR_10G.
GFP-FAC	Generic framing procedure facility port, referring to all MXP and TXP cards.
ISC	Inter-service channel, referring to TXPP_MR_2.5G or TXP_MR_2.5G cards. For more information about ISC alarms, refer to the "Alarm Troubleshooting" chapter in the <i>Cisco ONS 15454 DWDM Troubleshooting Guide</i> .
ML1000	An ML1000 Ethernet card (ML1000-2).
ML100T	An ML100 Ethernet card (ML100T-12).
MLFX	An ML100X-8 Ethernet card.
MLMR	An ML-MR-10 Ethernet card.
MSUDC	Multiplex section user data channel.
NE	The entire network element.
NE-SREF	The timing status of the NE.
OCH	The optical channel, referring to dense wavelength division multiplexing (DWDM) cards. For more information about OCH alarms, refer to the "Alarm Troubleshooting" chapter in the <i>Cisco ONS 15454 DWDM Troubleshooting Guide</i> .
OCHNC-CONN	The optical channel network connection, referring to DWDM cards. For more information about OCHNC-CONN alarms, refer to the "Alarm Troubleshooting" chapter in the <i>Cisco ONS 15454 DWDM Troubleshooting Guide</i> .
OCH-TERM	The optical channel termination node, referring to DWDM cards. For more information about most of the alarms on this object, refer to the "Alarm Troubleshooting" chapter of the <i>Cisco ONS 15454 DWDM Troubleshooting Guide</i> .
OCN	An OC-N line on any OC-N card.
OMS	Optical multiplex section.
OSC-RING	Optical service channel ring. For more information about OSC-RING alarms, refer to the "Alarm Troubleshooting" chapter in the <i>Cisco ONS 15454 DWDM Troubleshooting Guide</i> .
OTS	Optical transport section. For more information about OTS alarms, refer to the "Alarm Troubleshooting" chapter in the <i>Cisco ONS 15454 DWDM Troubleshooting Guide</i> .
PPM	Pluggable port module (PPM), referring to OC192-XFP, MXP, TXP, and MRC cards. For more information about PPM alarms, refer to the "Alarm Troubleshooting" chapter in the <i>Cisco ONS 15454 DWDM Troubleshooting Guide</i> .
PWR	Power equipment.
RPRIF	Interface for Resilient Packet Ring technology as defined in IEEE 802.17b. Also called RPR-IEEE.
SHELF	The shelf assembly. For more information about most of the alarms on this object, refer to the "Alarm Troubleshooting" chapter of the <i>Cisco ONS 15454 DWDM Troubleshooting Guide</i> .
STSMON	STS alarm detection at the monitor point (upstream from the cross-connect).
STSTRM	STS alarm detection at termination (downstream from the cross-connect).
TLINK	Traffic engineering (TE) link correlation.
TRUNK	The optical or DWDM card carrying the high-speed signal; referring to MXP or TXP cards. For more information about TRUNK alarms, refer to the "Alarm Troubleshooting" chapter in the <i>Cisco ONS 15454 DWDM Troubleshooting Guide</i> .

Table 2-7: Alarm Logical Object Type Definitions

VCG	A virtual concatenation group of VTs.
VT-MON	VT1 alarm detection at the monitor point (upstream from the cross-connect).
VT-TERM	VT1 alarm detection at termination (downstream from the cross-connect).

Alarm List by Logical Object Type

Table 2-8 lists all ONS 15454 alarms and logical objects as they are given in the system alarm profile. The list entries are organized by logical object name and then by alarm or condition name. Where appropriate, the alarm entries also contain troubleshooting procedures.

Note: In a mixed network containing different types of nodes (such as ONS 15310-CL, ONS 15454, and ONS 15600), the initially displayed alarm list in the Provisioning > Alarm Profiles > Alarm Profile Editor tab lists all conditions that are applicable to all nodes in the network. However, when you load the default severity profile from a node, only applicable alarms will display severity levels. Nonapplicable alarms can display "use default" or "unset."

Note: In some cases this list does not follow alphabetical order, but it does reflect the order shown in CTC.

Table 2-8: Alarm List by Logical Object in Alarm Profile

2R: ALS (NA)	FC: AS-CMD (NA)	OCN: MANUAL-REQ-RING (NA)
2R: AS-CMD (NA)	FC: AS-MT (NA)	OCN: MANUAL-REQ-SPAN (NA)
2R: AS-MT (NA)	FC: CARLOSS (MJ)	OCN: PRC-DUPID (MJ)
2R: FAILTOSW (NA)	FC: FAILTOSW (NA)	OCN: RFI-L (NR)
2R: FORCED-REQ-SPAN (NA)	FC: FC-DE-NES (MJ)	OCN: RING-ID-MIS (MJ)
2R: HI-LASERBIAS (MN)	FC: FC-NO-CREDITS (MJ)	OCN: RING-MISMATCH (MJ)
2R: HI-RXPOWER (MN)	FC: FORCED-REQ-SPAN (NA)	OCN: RING-SW-EAST (NA)
2R: HI-TXPOWER (MN)	FC: GE-OOSYNC (CR)	OCN: RING-SW-WEST (NA)
2R: LO-RXPOWER (MN)	FC: HI-LASERBIAS (MN)	OCN: SD-L (NA)
2R: LO-TXPOWER (MN)	FC: HI-RXPOWER (MN)	OCN: SF-L (NA)
2R: LOCKOUT-REQ (NA)	FC: HI-TXPOWER (MN)	OCN: SPAN-SW-EAST (NA)
2R: LOS (CR)	FC: LO-RXPOWER (MN)	OCN: SPAN-SW-WEST (NA)
2R: MANUAL-REQ-SPAN (NA)	FC: LO-TXPOWER (MN)	OCN: SQUELCH (NA)
2R: SQUELCHED (NA)	FC: LOCKOUT-REQ (NA)	OCN: SQUELCHED (NA)
2R: WKSWPR (NA)	FC: LPBKFACILITY (NA)	OCN: SSM-DUS (NA)
2R: WTR (NA)	FC: LPBKTERMINAL (NA)	OCN: SSM-FAIL (MN)
AICI-AEP: EQPT (CR)	FC: MANUAL-REQ-SPAN (NA)	OCN: SSM-LNC (NA)
AICI-AEP: MFGMEM (CR)	FC: OUT-OF-SYNC (MJ)	OCN: SSM-OFF (NA)
AICI-AIE: EQPT (CR)	FC: SIGLOSS (MJ)	OCN: SSM-PRC (NA)
AICI-AIE: MFGMEM (CR)	FC: SQUELCHED (NA)	OCN: SSM-PRS (NA)
AIP: INVMACADR (MJ)	FC: SYNCLOSS (MJ)	OCN: SSM-RES (NA)
AIP: MEA (CR)	FC: WKSWPR (NA)	OCN: SSM-SDH-TN (NA)
AIP: MFGMEM (CR)	FC: WTR (NA)	OCN: SSM-SETS (NA)
AOTS: ALS (NA)	FCMR: AS-CMD (NA)	OCN: SSM-SMC (NA)
AOTS: AMPLI-INIT (NA)	FCMR: AS-MT (NA)	OCN: SSM-ST2 (NA)
AOTS: APC-CORR-SKIPPED	FCMR: FAPS (NA)	OCN: SSM-ST3 (NA)

(MN)		
AOTS: APC-DISABLED (NA)	FCMR: FC-DE-NES (MJ)	OCN: SSM-ST3E (NA)
AOTS: APC-OUT-OF-RANGE (MN)	FCMR: FC-NO-CREDITS (MJ)	OCN: SSM-ST4 (NA)
AOTS: APC-WRONG-GAIN (NA)	FCMR: GFP-CSF (MJ)	OCN: SSM-STU (NA)
AOTS: AS-CMD (NA)	FCMR: GFP-DE-MISMATCH (MJ)	OCN: SSM-TNC (NA)
AOTS: AS-MT (NA)	FCMR: GFP-EX-MISMATCH (MJ)	OCN: STS-SQUELCH-L (NA)
AOTS: CASETEMP-DEG (MN)	FCMR: GFP-LFD (MJ)	OCN: SYNC-FREQ (NA)
AOTS: FIBERTEMP-DEG (MN)	FCMR: GFP-NO-BUFFERS (MJ)	OCN: TIM (CR)
AOTS: GAIN-HDEG (MN)	FCMR: GFP-UP-MISMATCH (MJ)	OCN: TIM-MON (MN)
AOTS: GAIN-HFAIL (CR)	FCMR: LPBKFACILITY (NA)	OCN: TIM-S (CR)
AOTS: GAIN-LDEG (MN)	FCMR: LPBKTERMINAL (NA)	OCN: VT-SQUELCH-L (NA)
AOTS: GAIN-LFAIL (CR)	FCMR: PORT-MISMATCH (NA)	OCN: WKSWPR (NA)
AOTS: LASER-APR (NA)	FCMR: SIGLOSS (MJ)	OCN: WTR (NA)
AOTS: LASERBIAS-DEG (MN)	FCMR: SYNCLOSS (MJ)	OMS: APC-CORR-SKIPPED (MN)
AOTS: LASERBIAS-FAIL (MJ)	FCMR: TPTFAIL (MJ)	OMS: APC-DISABLED (NA)
AOTS: LASERTEMP-DEG (MN)	FUDC: AIS (NR)	OMS: APC-OUT-OF-RANGE (MN)
AOTS: OPWR-HDEG (MN)	FUDC: LOS (MN)	OMS: AS-CMD (NA)
AOTS: OPWR-HFAIL (CR)	G1000: AS-CMD (NA)	OMS: AS-MT (NA)
AOTS: OPWR-LDEG (MN)	G1000: AS-MT (NA)	OMS: LOS-O (MN)
AOTS: OPWR-LFAIL (CR)	G1000: CARLOSS (MJ)	OMS: LOS-P (CR)
AOTS: OSRION (NA)	G1000: LPBKFACILITY (NA)	OMS: OPWR-HDEG (MN)
AOTS: PARAM-MISM (NA)	G1000: LPBKTERMINAL (NA)	OMS: OPWR-HFAIL (CR)
AOTS: VOA-HDEG (MN)	G1000: TPTFAIL (MJ)	OMS: OPWR-LDEG (MN)
AOTS: VOA-HFAIL (CR)	GE: ALS (NA)	OMS: OPWR-LFAIL (CR)
AOTS: VOA-LDEG (MN)	GE: AS-CMD (NA)	OMS: PARAM-MISM (NA)
AOTS: VOA-LFAIL (CR)	GE: AS-MT (NA)	OMS: PMI (NA)
BIC: MEA (CR)	GE: CARLOSS (MJ)	OMS: VOA-HDEG (MN)
BITS: AIS (NR)	GE: FAILTOSW (NA)	OMS: VOA-HFAIL (CR)
BITS: BPV (MN)	GE: FORCED-REQ-SPAN (NA)	OMS: VOA-LDEG (MN)
BITS: HI-CCVOLT (NA)	GE: GE-OOSYNC (CR)	OMS: VOA-LFAIL (CR)
BITS: LOF (MN)	GE: HI-LASERBIAS (MN)	OSC-RING: RING-ID-MIS (MJ)
BITS: LOS (MN)	GE: HI-RXPOWER (MN)	OTS: APC-CORR-SKIPPED (MN)
BITS: SSM-DUS (NA)	GE: HI-TXPOWER (MN)	OTS: APC-DISABLED (NA)
BITS: SSM-FAIL (MN)	GE: LMP-FAIL (MN)	OTS: APC-OUT-OF-RANGE (MN)
BITS: SSM-LNC (NA)	GE: LMP-SD (MN)	OTS: AS-CMD (NA)
BITS: SSM-OFF (NA)	GE: LMP-SF (MN)	OTS: AS-MT (NA)
BITS: SSM-PRC (NA)	GE: LMP-UNALLOC (NA)	OTS: AWG-DEG (MN)
BITS: SSM-PRS (NA)	GE: LO-RXPOWER (MN)	OTS: AWG-FAIL (CR)

Table 2-8: Alarm List by Logical Object in Alarm Profile

BITS: SSM-RES (NA)	GE: LO-TXPOWER (MN)	OTS: AWG-OVERTEMP (CR)
BITS: SSM-SDH-TN (NA)	GE: LOCKOUT-REQ (NA)	OTS: AWG-WARM-UP (NA)
BITS: SSM-SETS (NA)	GE: LPBKFACILITY (NA)	OTS: DCU-LOSS-FAIL (MN)
BITS: SSM-SMC (NA)	GE: LPBKTERMINAL (NA)	OTS: LASERBIAS-DEG (MN)
BITS: SSM-ST2 (NA)	GE: MANUAL-REQ-SPAN (NA)	OTS: LOS (CR)
BITS: SSM-ST3 (NA)	GE: OUT-OF-SYNC (MJ)	OTS: LOS-O (MN)
BITS: SSM-ST3E (NA)	GE: SIGLOSS (MJ)	OTS: LOS-P (CR)
BITS: SSM-ST4 (NA)	GE: SQUELCHED (NA)	OTS: MT-OCHNC (NA)
BITS: SSM-STU (NA)	GE: SYNCLOSS (MJ)	OTS: OPWR-HDEG (MN)
BITS: SSM-TNC (NA)	GE: WKSWPR (NA)	OTS: OPWR-HFAIL (CR)
BITS: SYNC-FREQ (NA)	GE: WTR (NA)	OTS: OPWR-LDEG (MN)
BPLANE: AS-CMD (NA)	GFP-FAC: AS-CMD (NA)	OTS: OPWR-LFAIL (CR)
BPLANE: MFGMEM (CR)	GFP-FAC: AS-MT (NA)	OTS: OSRION (NA)
CE1000: AS-CMD (NA)	GFP-FAC: GFP-CSF (MJ)	OTS: PARAM-MISM (NA)
CE1000: AS-MT (NA)	GFP-FAC: GFP-DE-MISMATCH (MJ)	OTS: PMI (NA)
CE1000: CARLOSS (MJ)	GFP-FAC: GFP-EX-MISMATCH (MJ)	OTS: SH-IL-VAR-DEG-HIGH (MN)
CE1000: GFP-CSF (MJ)	GFP-FAC: GFP-LFD (MJ)	OTS: SH-IL-VAR-DEG-LOW (MN)
CE1000: GFP-EX-MISMATCH (MJ)	GFP-FAC: GFP-NO-BUFFERS (MJ)	OTS: SHUTTER-OPEN (NA)
CE1000: GFP-LFD (MJ)	GFP-FAC: GFP-UP-MISMATCH (MJ)	OTS: SPAN-NOT-MEASURED (NA)
CE1000: GFP-UP-MISMATCH (MJ)	ISC: ALS (NA)	OTS: SPANLEN-OUT-OF-RANGE (MN)
CE1000: LPBKFACILITY (NA)	ISC: AS-CMD (NA)	OTS: VOA-HDEG (MN)
CE1000: LPBKTERMINAL (NA)	ISC: AS-MT (NA)	OTS: VOA-HFAIL (CR)
CE1000: TPTFAIL (MJ)	ISC: CARLOSS (MJ)	OTS: VOA-LDEG (MN)
CE100T: AS-CMD (NA)	ISC: FAILTOSW (NA)	OTS: VOA-LFAIL (CR)
CE100T: AS-MT (NA)	ISC: FORCED-REQ-SPAN (NA)	PPM: AS-CMD (NA)
CE100T: CARLOSS (MJ)	ISC: GE-OOSYNC (CR)	PPM: AS-MT (NA)
CE100T: DATA-CRC (MJ)	ISC: HI-LASERBIAS (MN)	PPM: EQPT (CR)
CE100T: GFP-CSF (MJ)	ISC: HI-RXPOWER (MN)	PPM: HI-LASERBIAS (MN)
CE100T: GFP-LFD (MJ)	ISC: HI-TXPOWER (MN)	PPM: HI-LASERTEMP (MN)
CE100T: GFP-UP-MISMATCH (MJ)	ISC: LO-RXPOWER (MN)	PPM: HI-TXPOWER (MN)
CE100T: LPBKFACILITY (NA)	ISC: LO-TXPOWER (MN)	PPM: IMPROPRMVL (CR)
CE100T: LPBKTERMINAL (NA)	ISC: LOCKOUT-REQ (NA)	PPM: LO-LASERBIAS (MN)
CE100T: TPTFAIL (MJ)	ISC: LOS (CR)	PPM: LO-LASERTEMP (MN)
CEMR: AS-CMD (NA)	ISC: LPBKFACILITY (NA)	PPM: LO-TXPOWER (MN)
CEMR: AS-MT (NA)	ISC: LPBKTERMINAL (NA)	PPM: MEA (CR)
CEMR: CARLOSS (MJ)	ISC: MANUAL-REQ-SPAN (NA)	PPM: MFGMEM (CR)

Table 2-8: Alarm List by Logical Object in Alarm Profile

CEMR: GFP-CSF (MJ)	ISC: OUT-OF-SYNC (NA)	PPM: NON-CISCO-PPM (NR)
CEMR: GFP-LFD (MJ)	ISC: SIGLOSS (MJ)	PPM: PROV-MISMATCH (MN)
CEMR: GFP-UP-MISMATCH (MJ)	ISC: SQUELCHED (NA)	PPM: UNQUAL-PPM (NR)
CEMR: LPBKFACILITY (NA)	ISC: SYNCLOSS (MJ)	PWR: AS-CMD (NA)
CEMR: LPBKTERMINAL (NA)	ISC: WKSWPR (NA)	PWR: BAT-FAIL (MJ)
CEMR: PORT-MISMATCH (MJ)	ISC: WTR (NA)	PWR: EHIBATVG (MJ)
CEMR: TPTFAIL (MJ)	ML1000: AS-CMD (NA)	PWR: ELWBATVG (MJ)
CTRL: LMP-FAIL (MN)	ML1000: AS-MT (NA)	PWR: HIBATVG (MJ)
DS1: AIS (NR)	ML1000: AUTONEG-RFI (MJ)	PWR: LWBATVG (MJ)
DS1: AS-CMD (NA)	ML1000: CARLOSS (MJ)	PWR: VOLT-MISM (NA)
DS1: AS-MT (NA)	ML1000: DATA-CRC (MJ)	RPRIF: MAX-STATIONS (MJ)
DS1: BERT-ENBL (NR)	ML1000: FORCED-REQ (NA)	RPRIF: RSV-RT-EXCD-RINGLET0 (MJ)
DS1: BERT-SYNC-FAIL (NR)	ML1000: GFP-CSF (MJ)	RPRIF: RSV-RT-EXCD-RINGLET1 (MJ)
DS1: IDLE (NA)	ML1000: GFP-LFD (MJ)	RPRIF: RPR-PASSTHR (NA)
DS1: LOF (MJ)	ML1000: GFP-UP-MISMATCH (MJ)	RPRIF: RPR-PEER-MISS (MJ)
DS1: LOS (MJ)	ML1000: LINK-KEEPALIVE (CR)	RPRIF: RPR-PROT-ACTIVE (NA)
DS1: LPBKDS1FE-CMD (NA)	ML1000: MAN-REQ (NA)	RPRIF: RPR-PROT-CONFIG-MISM (MJ)
DS1: LPBKFACILITY (NA)	ML1000: RPR-SD (NA)	RPRIF: RPR-RI-FAIL (MJ)
DS1: LPBKTERMINAL (NA)	ML1000: RPR-SF (NA)	SHELF: APC-DISABLED (NA)
DS1: RAI (NA)	ML1000: RPR-SPAN-MISMATCH (MJ)	SHELF: AS-CMD (NA)
DS1: RCVR-MISS (MJ)	ML1000: RPRW (NA)	SHELF: AS-MT (NA)
DS1: SD (NA)	ML1000: TPTFAIL (MJ)	SHELF: DUP-SHELF-ID (MJ)
DS1: SF (NA)	ML1000: WTR (NA)	SHELF: MEA (MJ)
DS1: SSM-DUS (NA)	ML100T: AS-CMD (NA)	SHELF: SHELF-COMM-FAIL (MJ)
DS1: SSM-FAIL (MN)	ML100T: AS-MT (NA)	STSMON: AIS-P (NR)
DS1: SSM-OFF (NA)	ML100T: CARLOSS (MJ)	STSMON: AUTOSW-AIS (NR)
DS1: SSM-PRS (NA)	ML100T: DATA-CRC (MJ)	STSMON: AUTOSW-LOP (NA)
DS1: SSM-RES (NA)	ML100T: FORCED-REQ (NA)	STSMON: AUTOSW-PDI (NA)
DS1: SSM-SMC (NA)	ML100T: GFP-CSF (MJ)	STSMON: AUTOSW-SDBER (NA)
DS1: SSM-ST2 (NA)	ML100T: GFP-LFD (MJ)	STSMON: AUTOSW-SFBER (NA)
DS1: SSM-ST3 (NA)	ML100T: GFP-UP-MISMATCH (MJ)	STSMON: AUTOSW-UNEQ (NA)
DS1: SSM-ST3E (NA)	ML100T: LINK-KEEPALIVE (CR)	STSMON: ERFI-P-CONN (NR)
DS1: SSM-ST4 (NA)	ML100T: MAN-REQ (NA)	STSMON: ERFI-P-PAYLD (NR)
DS1: SSM-STU (NA)	ML100T: RPR-SD (NA)	STSMON: ERFI-P-SRVR (NR)

Table 2-8: Alarm List by Logical Object in Alarm Profile

DS1: SYNC-FREQ (NA)	ML100T: RPR-SF (NA)	STSMON: FAILTOSW-PATH (NA)
DS1: TRMT (MJ)	ML100T: RPR-SPAN-MISMATCH (MJ)	STSMON: FORCED-REQ (NA)
DS1: TRMT-MISS (MJ)	ML100T: RPRW (NA)	STSMON: LOCKOUT-REQ (NA)
DS1: TX-AIS (NR)	ML100T: TPTFAIL (MJ)	STSMON: LOM (CR)
DS1: TX-IDLE (NA)	ML100T: WTR (NA)	STSMON: LOP-P (CR)
DS1: TX-LOF (NR)	MLFX: AS-CMD (NA)	STSMON: LPBKCRS (NA)
DS1: TX-RAI (NA)	MLFX: AS-MT (NA)	STSMON: MAN-REQ (NA)
DS3: AIS (NR)	MLFX: CARLOSS (MJ)	STSMON: PDI-P (NA)
DS3: AS-CMD (NA)	MLFX: DATA-CRC (MJ)	STSMON: PLM-P (CR)
DS3: AS-MT (NA)	MLFX: FORCED-REQ (NA)	STSMON: RFI-P (NR)
DS3: BERT-ENBL (NR)	MLFX: GFP-CSF (MJ)	STSMON: ROLL (NA)
DS3: BERT-SYNC-FAIL (NR)	MLFX: GFP-LFD (MJ)	STSMON: ROLL-PEND (NA)
DS3: DS3-MISM (NA)	MLFX: GFP-UP-MISMATCH (MJ)	STSMON: SD-P (NA)
DS3: FE-AIS (NA)	MLFX: LINK-KEEPALIVE (CR)	STSMON: SF-P (NA)
DS3: FE-DS1-MULTLOS (NA)	MLFX: MAN-REQ (NA)	STSMON: TIM-P (MN)
DS3: FE-DS1-NSA (NA)	MLFX: RPR-SD (NA)	STSMON: UNEQ-P (CR)
DS3: FE-DS1-SA (NA)	MLFX: RPR-SF (NA)	STSMON: WKSWPR (NA)
DS3: FE-DS1-SNGLLOS (NA)	MLFX: RPR-SPAN-MISMATCH (MJ)	STSMON: WTR (NA)
DS3: FE-DS3-NSA (NA)	MLFX: RPRW (NA)	STSTRM: AIS-P (NR)
DS3: FE-DS3-SA (NA)	MLFX: TPTFAIL (MJ)	STSTRM: AS-MT-OOG (NA)
DS3: FE-EQPT-NSA (NA)	MLFX: WTR (NA)	STSTRM: ENCAP-MISMATCH-P (CR)
DS3: FE-IDLE (NA)	MLMR: AS-CMD (NA)	STSTRM: ERFI-P-CONN (NR)
DS3: FE-LOF (NA)	MLMR: AS-MT (NA)	STSTRM: ERFI-P-PAYLD (NR)
DS3: FE-LOS (NA)	MLMR: CARLOSS (MJ)	STSTRM: ERFI-P-SRVR (NR)
DS3: INC-ISD (NA)	MLMR: CPP-INCAPABLE (NA)	STSTRM: LCAS-CRC (NA)
DS3: LOF (CR)	MLMR: FORCED-REQ (NA)	STSTRM: LCAS-RX-DNU (NA)
DS3: LOS (CR)	MLMR: GFP-CSF (MJ)	STSTRM: LCAS-RX-FAIL (NA)
DS3: LPBKDS3FEAC (NA)	MLMR: GFP-LFD (MJ)	STSTRM: LCAS-RX-GRP-ERR (NA)
DS3: LPBKDS3FEAC-CMD (NA)	MLMR: GFP-UP-MISMATCH (MJ)	STSTRM: LCAS-TX-ADD (NA)
DS3: LPBKFACILITY (NA)	MLMR: LINK-KEEPALIVE (CR)	STSTRM: LCAS-TX-DNU (NA)
DS3: LPBKTERMINAL (NA)	MLMR: LPBKFACILITY (NA)	STSTRM: LOF (CR)
DS3: RAI (NA)	MLMR: LPBKTERMINAL (NA)	STSTRM: LOM (CR)
DS3: SD (NA)	MLMR: MAN-REQ (NA)	STSTRM: LOP-P (CR)
DS3: SF (NA)	MLMR: PEER-NORESPONSE (MN)	STSTRM: LPBKCRS (NA)
DS3: TX-AIS (NR)	MLMR: PORT-MISMATCH (MJ)	STSTRM: OOU-TPT (NA)

Table 2-8: Alarm List by Logical Object in Alarm Profile

DS3: TX-RAI (NA)	MLMR: RPR-SD (NA)	STSTRM: PDI-P (NA)
E1000F: AS-CMD (NA)	MLMR: RPR-SF (NA)	STSTRM: PLM-P (CR)
E1000F: CARLOSS (MJ)	MLMR: RPR-SPAN-MISMATCH (MJ)	STSTRM: RFI-P (NR)
E100T: AS-CMD (NA)	MLMR: TPTFAIL (MJ)	STSTRM: ROLL (NA)
E100T: CARLOSS (MJ)	MLMR: WTR (NA)	STSTRM: ROLL-PEND (NR)
E1: AIS (NR)	MSUDC: AIS (NR)	STSTRM: SD-P (NA)
E1: AS-CMD (NA)	MSUDC: LOS (MN)	STSTRM: SF-P (NA)
E1: AS-MT (NA)	NE-SREF: FRCDSWTOINT (NA)	STSTRM: SQM (CR)
E1: LOF (MJ)	NE-SREF: FRCDSWTOPRI (NA)	STSTRM: TIM-P (CR)
E1: LOS (MJ)	NE-SREF: FRCDSWTOSEC (NA)	STSTRM: UNEQ-P (CR)
E1: LPBKFACILITY (NA)	NE-SREF: FRCDSWTOTHIRD (NA)	TLINK: LMP-FAIL (MN)
E1: LPBKTERMINAL (NA)	NE-SREF: FRNGSYNC (NA)	TRUNK: AIS (NR)
E1: MS-DEG (NA)	NE-SREF: FSTSYNC (NA)	TRUNK: AIS-L (NR)
E1: MS-EXC (NA)	NE-SREF: HLDOVRSYNC (NA)	TRUNK: ALS (NA)
E1: RAI (NA)	NE-SREF: MANSWTOINT (NA)	TRUNK: AS-CMD (NA)
E1: RCVR-MISS (MJ)	NE-SREF: MANSWTOPRI (NA)	TRUNK: AS-MT (NA)
E1: SSM-DUS (NA)	NE-SREF: MANSWTOSEC (NA)	TRUNK: CARLOSS (MJ)
E1: SSM-FAIL (MN)	NE-SREF: MANSWTOTHIRD (NA)	TRUNK: DSP-COMM-FAIL (MJ)
E1: SSM-OFF (NA)	NE-SREF: SSM-LNC (NA)	TRUNK: DSP-FAIL (MJ)
E1: SSM-PRS (NA)	NE-SREF: SSM-PRC (NA)	TRUNK: EOC (MN)
E1: SSM-RES (NA)	NE-SREF: SSM-PRS (NA)	TRUNK: EOC-L (MN)
E1: SSM-SMC (NA)	NE-SREF: SSM-RES (NA)	TRUNK: FAILTOSW (NA)
E1: SSM-ST2 (NA)	NE-SREF: SSM-SDH-TN (NA)	TRUNK: FAPS (NA)
E1: SSM-ST3 (NA)	NE-SREF: SSM-SETS (NA)	TRUNK: FC-DE-NES (MJ)
E1: SSM-ST3E (NA)	NE-SREF: SSM-SMC (NA)	TRUNK: FC-NO-CREDITS (MJ)
E1: SSM-ST4 (NA)	NE-SREF: SSM-ST2 (NA)	TRUNK: FEC-MISM (MJ)
E1: SSM-STU (NA)	NE-SREF: SSM-ST3 (NA)	TRUNK: FORCED-REQ-SPAN (NA)
E1: SYNC-FREQ (NA)	NE-SREF: SSM-ST3E (NA)	TRUNK: GCC-EOC (MN)
E1: TRMT (MJ)	NE-SREF: SSM-ST4 (NA)	TRUNK: GE-OOSYNC (CR)
E1: TRMT-MISS (MJ)	NE-SREF: SSM-STU (NA)	TRUNK: HELLO (MN)
E1: TX-AIS (NR)	NE-SREF: SSM-TNC (NA)	TRUNK: HI-LASERBIAS (MN)
E1: TX-LOF (NR)	NE-SREF: SWTOPRI (NA)	TRUNK: HI-RXPOWER (MN)
E1: TX-RAI (NA)	NE-SREF: SWTOSEC (NA)	TRUNK: HI-TXPOWER (MN)
EC1: AIS-L (NR)	NE-SREF: SWTOTHIRD (NA)	TRUNK: ILK-FAIL (CR)
EC1: AS-CMD (NA)	NE-SREF: SYNCPRI (MJ)	TRUNK: ISIS-ADJ-FAIL (MN)
EC1: AS-MT (NA)	NE-SREF: SYNCSEC (MN)	TRUNK: LO-RXPOWER (MN)
EC1: FE-FRCDWKSWPR-RING (NA)	NE-SREF: SYNCTHIRD (MN)	TRUNK: LO-TXPOWER (MN)
	NE: APC-DISABLED (NA)	TRUNK: LOCKOUT-REQ (NA)

Table 2-8: Alarm List by Logical Object in Alarm Profile

EC1: FE-MANWKSWPR-RING (NA)		
EC1: FORCED-REQ-SPAN (NA)	NE: APC-END (NA)	TRUNK: LOF (CR)
EC1: LOF (CR)	NE: AS-CMD (NA)	TRUNK: LOM (CR)
EC1: LOS (CR)	NE: AUD-LOG-LOSS (NA)	TRUNK: LOS (CR)
EC1: LPBKFACILITY (NA)	NE: AUD-LOG-LOW (NA)	TRUNK: LOS-P (CR)
EC1: LPBKTERMINAL (NA)	NE: DATAFLT (MN)	TRUNK: LPBKFACILITY (NA)
EC1: MANUAL-REQ-SPAN (NA)	NE: DBOSYNC (MJ)	TRUNK: LPBKTERMINAL (NA)
EC1: RFI-L (NR)	NE: DUP-IPADDR (MN)	TRUNK: MANUAL-REQ-SPAN (NA)
EC1: SD-L (NA)	NE: DUP-NODENAME (MN)	TRUNK: ODUK-1-AIS-PM (NR)
EC1: SF-L (NA)	NE: ETH-LINKLOSS (NA)	TRUNK: ODUK-2-AIS-PM (NR)
EC1: TIM-S (CR)	NE: HITEMP (CR)	TRUNK: ODUK-3-AIS-PM (NR)
EC1: WTR (NA)	NE: I-HITEMP (CR)	TRUNK: ODUK-4-AIS-PM (NR)
ENVALRM: EXT (MN)	NE: INTRUSION-PSWD (NA)	TRUNK: ODUK-AIS-PM (NR)
EQPT: ALS-DISABLED (NA)	NE: LAN-POL-REV (NA)	TRUNK: ODUK-BDI-PM (NR)
EQPT: APC-DISABLED (NA)	NE: SNTP-HOST (MN)	TRUNK: ODUK-LCK-PM (NR)
EQPT: AS-CMD (NA)	NE: SYSBOOT (MJ)	TRUNK: ODUK-OCI-PM (NR)
EQPT: AS-MT (NA)	NE: TEMP-MISM (NA)	TRUNK: ODUK-SD-PM (NA)
EQPT: AUTORESET (MN)	OCH: APC-DISABLED (NA)	TRUNK: ODUK-SF-PM (NA)
EQPT: BKUPMEMP (CR)	OCH-TERM: FDI (NA)	TRUNK: ODUK-TIM-PM (MJ)
EQPT: CARLOSS (MJ)	OCH-TERM: OCHTERM-INC (NA)	TRUNK: OTUK-AIS (NR)
EQPT: CLDRESTART (NA)	OCH-TERM: OPWR-HDEG (MN)	TRUNK: OTUK-BDI (NR)
EQPT: COMIOXC (CR)	OCH-TERM: OPWR-LDEG (MN)	TRUNK: OTUK-IAE (MN)
EQPT: COMM-FAIL (MN)	OCH-TERM: OPWR-LFAIL (CR)	TRUNK: OTUK-LOF (CR)
EQPT: CONTBUS-A-18 (MN)	OCH-TERM: PARAM-MISM (NA)	TRUNK: OTUK-SD (NA)
EQPT: CONTBUS-B-18 (MN)	OCH: ADD-OPWR-HDEG (MN)	TRUNK: OTUK-SF (NA)
EQPT: CONTBUS-DISABLED (CR)	OCH: ADD-OPWR-HFAIL (CR)	TRUNK: OTUK-TIM (CR)
EQPT: CONTBUS-IO-A (MN)	OCH: ADD-OPWR-LDEG (MN)	TRUNK: OUT-OF-SYNC (MJ)
EQPT: CONTBUS-IO-B (MN)	OCH: ADD-OPWR-LFAIL (CR)	TRUNK: PROV-MISMATCH (MJ)
EQPT: CTNEQPT-MISMATCH (NA)	OCH: APC-CORR-SKIPPED (MN)	TRUNK: PTIM (MJ)
EQPT: CTNEQPT-PBPROT (CR)	OCH: APC-OUT-OF-RANGE (MN)	TRUNK: RFI (NR)
EQPT: CTNEQPT-PBWORK (CR)	OCH: AS-CMD (NA)	TRUNK: RFI-L (NR)
EQPT: EQPT (CR)	OCH: AS-MT (NA)	TRUNK: SD (NA)
EQPT: EQPT-DIAG (CR)	OCH: FDI (NA)	TRUNK: SD-L (NA)
EQPT: ERROR-CONFIG (MN)	OCH: LOS-O (MN)	TRUNK: SF (NA)

Table 2-8: Alarm List by Logical Object in Alarm Profile

EQPT: EXCCOL (MN)	OCH: LOS-P (CR)	TRUNK: SF-L (NA)
EQPT: FAILTOSW (NA)	OCH: OPWR-HDEG (MN)	TRUNK: SIGLOSS (MJ)
EQPT: FAPS-CONFIG-MISMATCH (MN)	OCH: OPWR-HFAIL (CR)	TRUNK: SQUELCHED (NA)
EQPT: FORCED-REQ (NA)	OCH: OPWR-LDEG (MN)	TRUNK: SSM-DUS (NA)
EQPT: FP-LINK-LOSS (MN)	OCH: OPWR-LFAIL (CR)	TRUNK: SSM-FAIL (MN)
EQPT: FTA-MISMATCH (NA)	OCH: PARAM-MISM (NA)	TRUNK: SSM-LNC (NA)
EQPT: HI-LASERBIAS (MN)	OCH: PORT-FAIL (CR)	TRUNK: SSM-OFF (NA)
EQPT: HI-LASERTEMP (MN)	OCH: TRAIL-SIGNAL-FAIL (NA)	TRUNK: SSM-PRC (NA)
EQPT: HI-TXPOWER (MN)	OCH: VOA-HDEG (MN)	TRUNK: SSM-PRS (NA)
EQPT: HITEMP (MN)	OCH: VOA-HFAIL (CR)	TRUNK: SSM-RES (NA)
EQPT: IMPROPRMVL (CR)	OCH: VOA-LDEG (MN)	TRUNK: SSM-SDH-TN (NA)
EQPT: INHSWPR (NA)	OCH: VOA-LFAIL (CR)	TRUNK: SSM-SETS (NA)
EQPT: INHSWWKG (NA)	OCHNC-CONN: OCHNC-INC (NA)	TRUNK: SSM-SMC (NA)
EQPT: IOSCFGCOPY (NA)	OCN: AIS-L (NR)	TRUNK: SSM-ST2 (NA)
EQPT: LO-LASERBIAS (MN)	OCN: ALS (NA)	TRUNK: SSM-ST3 (NA)
EQPT: LO-LASERTEMP (MN)	OCN: APS-INV-PRIM (MN)	TRUNK: SSM-ST3E (NA)
EQPT: LO-TXPOWER (MN)	OCN: APS-PRIM-FAC (NA)	TRUNK: SSM-ST4 (NA)
EQPT: LOCKOUT-REQ (NA)	OCN: APS-PRIM-SEC-MISM (MN)	TRUNK: SSM-STU (NA)
EQPT: MAN-REQ (NA)	OCN: APSB (MN)	TRUNK: SSM-TNC (NA)
EQPT: MANRESET (NA)	OCN: APSC-IMP (MN)	TRUNK: SYNC-FREQ (NA)
EQPT: MEA (CR)	OCN: APSCDFLTK (MN)	TRUNK: SYNCLOSS (MJ)
EQPT: MEM-GONE (MJ)	OCN: APSCINCON (MN)	TRUNK: TIM (CR)
EQPT: MEM-LOW (MN)	OCN: APSCM (MN)	TRUNK: TIM-MON (MN)
EQPT: NO-CONFIG (NA)	OCN: APSCNMIS (MJ)	TRUNK: TRAIL-SIGNAL-FAIL (NA)
EQPT: OPEN-SLOT (NA)	OCN: APSIMP (MN)	TRUNK: UNC-WORD (NA)
EQPT: PROTNA (MN)	OCN: APSMM (MN)	TRUNK: UT-COMM-FAIL (MJ)
EQPT: PWR-FAIL-A (MN)	OCN: AS-CMD (NA)	TRUNK: UT-FAIL (MJ)
EQPT: PWR-FAIL-B (MN)	OCN: AS-MT (NA)	TRUNK: WTR (NA)
EQPT: PWR-FAIL-RET-A (MN)	OCN: AUTOLSROFF (CR)	TRUNK: WVL-MISMATCH (MJ)
EQPT: PWR-FAIL-RET-B (MN)	OCN: BLSR-SW-VER-MISM (MJ)	VCG: LOA (CR)
EQPT: RUNCFG-SAVENEED (NA)	OCN: BLSROSYNC (MJ)	VCG: VCG-DEG (NA)
EQPT: SFTWDOWN (MN)	OCN: E-W-MISMATCH (MJ)	VCG: VCG-DOWN (NA)
EQPT: SW-MISMATCH (NA)	OCN: EOC (MN)	VT-MON: AIS-V (NR)
EQPT: SWMTXMOD-PROT (CR)	OCN: EOC-L (MN)	VT-MON: AUTOSW-AIS (NR)
EQPT: SWMTXMOD-WORK (CR)	OCN: EXERCISE-RING-FAIL (NA)	VT-MON: AUTOSW-LOP (NA)
EQPT: WKSWPR (NA)		VT-MON: AUTOSW-PDI (NA)

Table 2-8: Alarm List by Logical Object in Alarm Profile

	OCN: EXERCISE-SPAN-FAIL (NA)	
EQPT: WORK-QUEUE-FULL (NA)	OCN: EXTRA-TRAF-PREEMPT (MJ)	VT-MON: AUTOSW-SDBER (NA)
EQPT: WTR (NA)	OCN: FAILTOSW (NA)	VT-MON: AUTOSW-SFBER (NA)
ESCON: ALS (NA)	OCN: FAILTOSWR (NA)	VT-MON: AUTOSW-UNEQ (NA)
ESCON: AS-CMD (NA)	OCN: FAILTOSWS (NA)	VT-MON: FAILTOSW-PATH (NA)
ESCON: AS-MT (NA)	OCN: FE-FRCDWKSWBK-SPAN (NA)	VT-MON: FORCED-REQ (NA)
ESCON: FAILTOSW (NA)	OCN: FE-FRCDWKSWPR-RING (NA)	VT-MON: LOCKOUT-REQ (NA)
ESCON: FORCED-REQ-SPAN (NA)	OCN: FE-FRCDWKSWPR-SPAN (NA)	VT-MON: LOP-V (MJ)
ESCON: HI-LASERBIAS (MN)	OCN: FE-LOCKOUTOFPR-SPAN (NA)	VT-MON: MAN-REQ (NA)
ESCON: HI-RXPOWER (MN)	OCN: FE-MANWKSWBK-SPAN (NA)	VT-MON: PLM-V (MJ)
ESCON: HI-TXPOWER (MN)	OCN: FE-MANWKSWPR-RING (NA)	VT-MON: RFI-V (NR)
ESCON: LO-RXPOWER (MN)	OCN: FE-MANWKSWPR-SPAN (NA)	VT-MON: ROLL (NA)
ESCON: LO-TXPOWER (MN)	OCN: FEPRLF (MN)	VT-MON: ROLL-PEND (NA)
ESCON: LOCKOUT-REQ (NA)	OCN: FORCED-REQ-RING (NA)	VT-MON: SD-V (NA)
ESCON: LOS (CR)	OCN: FORCED-REQ-SPAN (NA)	VT-MON: SF-V (NA)
ESCON: LPBKFACILITY (NA)	OCN: FULLPASSTHR-BI (NA)	VT-MON: TIM-V (MJ)
ESCON: LPBKTERMINAL (NA)	OCN: HELLO (MN)	VT-MON: UNEQ-V (MJ)
ESCON: MANUAL-REQ-SPAN (NA)	OCN: HI-LASERBIAS (MN)	VT-MON: WKSWPR (NA)
ESCON: SIGLOSS (MJ)	OCN: HI-LASERTEMP (MN)	VT-MON: WTR (NA)
ESCON: SQUELCHED (NA)	OCN: HI-RXPOWER (MN)	VT-TERM: AIS-V (NR)
ESCON: WKSWPR (NA)	OCN: HI-TXPOWER (MN)	VT-TERM: AS-MT-OOG (NA)
ESCON: WTR (NA)	OCN: ISIS-ADJ-FAIL (MN)	VT-TERM: LCAS-CRC (NA)
EXT-SREF: FRCDSWTOPRI (NA)	OCN: KB-PASSTHR (NA)	VT-TERM: LCAS-RX-DNU (NA)
EXT-SREF: FRCDSWTOSEC (NA)	OCN: KBYTE-APS-CHAN-FAIL (MN)	VT-TERM: LCAS-RX-FAIL (NA)
EXT-SREF: FRCDSWTO THIRD (NA)	OCN: LASEREOL (MN)	VT-TERM: LCAS-RX-GRP-ERR (NA)
EXT-SREF: MANSWTOPRI (NA)	OCN: LKOUTPR-S (NA)	VT-TERM: LCAS-TX-ADD (NA)
EXT-SREF: MANSWTOSEC (NA)	OCN: LMP-FAIL (MN)	VT-TERM: LCAS-TX-DNU (NA)
EXT-SREF: MANSWTO THIRD (NA)	OCN: LMP-SD (MN)	VT-TERM: LOM (MJ)
EXT-SREF: SWTOPRI (NA)	OCN: LMP-SF (MN)	VT-TERM: LOP-V (MJ)

Table 2-8: Alarm List by Logical Object in Alarm Profile

EXT-SREF: SWTOSEC (NA)	OCN: LMP-UNALLOC (NA)	VT-TERM: OOU-TPT (NA)
EXT-SREF: SWTOTHIRD (NA)	OCN: LO-LASERBIAS (MN)	VT-TERM: PLM-V (MJ)
EXT-SREF: SYNCPRI (MN)	OCN: LO-LASERTEMP (MN)	VT-TERM: RFI-V (NR)
EXT-SREF: SYNCSEC (MN)	OCN: LO-RXPOWER (MN)	VT-TERM: ROLL (NA)
EXT-SREF: SYNCTHIRD (MN)	OCN: LO-TXPOWER (MN)	VT-TERM: ROLL-PEND (NA)
FAN: EQPT-MISS (CR)	OCN: LOCKOUT-REQ (NA)	VT-TERM: SD-V (NA)
FAN: FAN (CR)	OCN: LOF (CR)	VT-TERM: SF-V (NA)
FAN: MEA (CR)	OCN: LOS (CR)	VT-TERM: SQM (MJ)
FAN: MFGMEM (CR)	OCN: LPBKFACILITY (NA)	VT-TERM: TIM-V (MJ)
FC: ALS (NA)	OCN: LPBKTERMINAL (NA)	VT-TERM: UNEQ-V (MJ)

Trouble Notifications

The ONS 15454 system reports trouble by utilizing standard alarm and condition characteristics, standard severities following the rules in Telcordia GR-253-CORE, and graphical user interface (GUI) state indicators. These notifications are described in the following paragraphs.

The ONS 15454 uses standard Telcordia categories to characterize levels of trouble. The system reports trouble notifications as alarms and status or descriptive notifications (if configured to do so) as conditions in the CTC Alarms window. Alarms typically signify a problem that the user needs to remedy, such as a loss of signal. Conditions do not necessarily require troubleshooting.

Alarm Characteristics

The ONS 15454 uses standard alarm entities to identify what is causing trouble. All alarms stem from hardware, software, environment, or operator-originated problems whether or not they affect service. Current alarms for the network, CTC session, node, or card are listed in the Alarms tab. (In addition, cleared alarms are also found in the History tab.)

Condition Characteristics

Conditions include any problem detected on an ONS 15454 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 CTC Conditions window or using TLI's set of RTRV-COND commands. (In addition, some but not all cleared conditions are also found in the History tab.)

For a comprehensive list of all conditions, refer to the *Cisco ONS SONET TLI Command Guide*. For more information about transient conditions, see [Transient Conditions](#).

Note: When an entity is put in the OOS,MT administrative state, the ONS 15454 suppresses all standing alarms on that entity and alarms and events appear on the Conditions tab. You can change this behavior for the LPBKFACILITY and LPBKTERMINAL alarms. To display these alarms on the Alarms tab, set the NODE.general.ReportLoopbackConditionsOnOOS-MTPorts value to TRUE on the NE Defaults tab. For more information about changing NE defaults, refer to the "Maintain the Node" chapter in the *Cisco ONS 15454 Procedure Guide*.

Severities

The ONS 15454 uses Telcordia-devised standard severities for alarms and conditions: Critical (CR), Major (MJ), Minor (MN), Not Alarmed (NA) and Not Reported (NR). These are described below:

- A Critical (CR) alarm generally indicates severe, Service-Affecting (SA) trouble that needs immediate correction. Loss of traffic on an STS-1, which can hold 28 DS-1 circuits, would be a Critical (CR), Service-Affecting (SA) alarm.
- A Major (MJ) alarm is a serious alarm, but the trouble has less impact on the network. For example, loss of traffic on more than five DS-1 circuits is Critical (CR), but loss of traffic on one to four DS-1 circuits is Major (MJ).
- Minor (MN) alarms generally are those that do not affect service. For example, the automatic protection switching (APS) byte failure (APSB) alarm indicates that line terminating equipment (LTE) detects a byte failure on the signal that could prevent traffic from properly executing a traffic switch.
- Not Alarmed (NA) conditions are information indicators, such as for free-run synchronization state (FRNGSYNC) or a forced-switch to primary (FRCSWTOPRI) timing event. They could or could not require troubleshooting, as indicated in the entries.
- Not Reported (NR) conditions occur as a secondary result of another event. For example, the alarm indication signal (AIS), with severity NR, is inserted by a downstream node when an LOS (CR or MJ) alarm occurs upstream. These conditions do not in themselves require troubleshooting, but are to be expected in the presence of primary alarms.

Severities can be customized for an entire network or for single nodes, from the network level down to the port level by changing or downloading customized alarm profiles. These custom severities are subject to the standard severity-demoting rules given in Telcordia GR-474-CORE and shown in the [Alarm Hierarchy](#). Procedures for customizing alarm severities are located in the "Manage Alarms" chapter in the *Cisco ONS 15454 Procedure Guide*.

Alarm Hierarchy

All alarm, condition, and unreported event severities listed in this manual are default profile settings. However in situations when traffic is not lost, such as when the alarm occurs on protected ports or circuits, alarms having Critical (CR) or Major (MJ) default severities can be demoted to lower severities such as Minor (MN) or Non-Service-Affecting (NSA) as defined in Telcordia GR-474-CORE.

A path alarm can be demoted if a higher-ranking alarm is raised for the same object. For example, If a path trace identifier mismatch (TIM-P) is raised on a circuit path and then a loss of pointer on the path (LOP-P) is raised on the path, the LOP-P alarm stands and the TIM-P closes. The path alarm hierarchy used in the ONS 15454 system is shown in [Table 2-9](#).

Table 2-9: Path Alarm Hierarchy

Priority	Condition Type
Highest	AIS-P
-	LOP-P
-	UNEQ-P
Lowest	TIM-P

Facility (port) alarms also follow a hierarchy, which means that lower-ranking alarms are closed by higher-ranking alarms. The facility alarm hierarchy used in the ONS 15454 is shown in [Table 2-10](#).

Table 2-10: Facility Alarm Hierarchy

Priority	Condition Type
Highest	LOS
-	LOF

-	AIS-L
-	SF-L
-	SD-L
-	RFI-L
-	TIM-S
-	AIS-P
-	LOP-P
-	SF-P
-	SD-P
-	UNEQ-P
-	TIM-P
Lowest	PLM-P

Near-end failures and far-end failures follow different hierarchies. Near-end failures stand according to whether they are for the entire signal (LOS, LOF), facility (AIS-L), path (AIS-P, etc.) or VT (AIS-V, etc.). The full hierarchy for near-end failures is shown in [Table 2-11](#). This table is taken from Telcordia GR-253-CORE.

Table 2-11: Near-End Alarm Hierarchy

Priority	Condition Type
Highest	LOS
-	LOF
-	AIS-L
-	AIS-P ¹
-	LOP-P ²
-	UNEQ-P
-	TIM-P
-	PLM-P
-	AIS-V ¹
-	LOP-V ²
-	UNEQ-V
-	PLM-V
Lowest	DS-N AIS (if reported for outgoing DS-N signals)

1. Although it is not defined as a defect or failure, all-ones STS pointer relay is also higher priority than LOP-P. Similarly, all-ones VT pointer relay is higher priority than LOP-V.

2. LOP-P is also higher priority than the far-end failure RFI-P, which does not affect the detection of any near-end failures. Similarly, LOP-V is higher priority than RFI-V.

The far-end failure alarm hierarchy is shown in [Table 2-12](#), as given in Telcordia GR-253-CORE.

Table 2-12: Far-End Alarm Hierarchy

Priority	Condition Type
Highest	RFI-L
-	RFI-P
Lowest	RFI-V

Service Effect

Service-Affecting (SA) alarms-those that interrupt service-could be Critical (CR), Major (MJ), or Minor (MN) severity alarms. Service-Affecting (SA) alarms indicate service is affected. Non-Service-Affecting (NSA) alarms always have a Minor (MN) default severity.

States

The Alarms or History tab State (ST) column indicate the disposition of the alarm or condition as follows:

- A raised (R) event is one that is active.
- A cleared (C) event is one that is no longer active.
- A transient (T) event is one that is automatically raised and cleared in CTC during system changes such as user login, logout, loss of connection to node view, etc. Transient events do not require user action. These are listed in [Transient Conditions](#).

Safety Summary

This section covers safety considerations designed to ensure safe operation of the ONS 15454. Personnel should not perform any procedures in this chapter unless they understand all safety precautions, practices, and warnings for the system equipment. Some troubleshooting procedures require installation or removal of cards; in these instances users should pay close attention to the following caution.

Caution! Hazardous voltage or energy could be present on the backplane when the system is operating. Use caution when removing or installing cards.

Some troubleshooting procedures require installation or removal of OC-192 cards; in these instances users should pay close attention to the following warnings.

Warning! On the OC-192 card, the laser is on when the card is booted and the safety key is in the on position (labeled 1). The port does not have to be in service for the laser to be on. The laser is off when the safety key is off (labeled 0). Statement 293

Warning! Invisible laser radiation could be emitted from the end of the unterminated fiber cable or connector. Do not stare into the beam directly with optical instruments. Viewing the laser output with certain optical instruments (for example, eye loupes, magnifiers, and microscopes) within a distance of 100 mm could pose an eye hazard. Statement 1056

Warning! Use of controls, adjustments, or performing procedures other than those specified could result in hazardous radiation exposure. Statement 1057

Warning! Class 1 laser product. Statement 1008

Warning! Do not reach into a vacant slot or chassis while you install or remove a module or a fan. Exposed circuitry could constitute an energy hazard. Statement 206

Warning! The power supply circuitry for the equipment can constitute an energy hazard. Before you install or replace the equipment, remove all jewelry (including rings, necklaces, and watches). Metal objects can come into contact with exposed power supply wiring or circuitry inside the DSLAM equipment. This could cause the metal objects to heat up and cause serious burns or weld the metal object to the equipment. Statement 207

