Transient Conditions

This chapter gives a description, entity, Simple Network Management Protocol (SNMP) number, and trap for each commonly encountered Cisco ONS 15454 transient condition.

Alarms can occur even in those cards that are not explicitly mentioned in the Alarm sections. When an alarm is raised, refer to its clearing procedure.

Note Unless otherwise specified, ONS 15454 refers to both ANSI and ETSI shelf assemblies.

3.1 Transients Indexed By Alphabetical Entry

Table 3-1 alphabetically lists all ONS 15454 transient conditions and their entity, SNMP number, and SNMP trap.

Note The Cisco Transport Controller (CTC) default alarm profile might contain conditions that are not currently implemented but are reserved for future use.

Table 3-1   ONS 15454 Transient Condition Alphabetical Index

Transient Condition	Entity	SNMP Number	SNMP Trap
3.3.1 ADMIN-DISABLE, page 3-4	NE	5270	disableInactiveUser
3.3.2 ADMIN-DISABLE-CLR, page 3-4	NE	5280	disableInactiveClear
3.3.3 ADMIN-LOCKOUT, page 3-4	NE	5040	adminLockoutOfUser
3.3.4 ADMIN-LOCKOUT-CLR, page 3-4	NE	5050	adminLockoutClear
3.3.5 ADMIN-LOGOUT, page 3-4	NE	5020	adminLogoutOfUser
3.3.6 ADMIN-SUSPEND, page 3-5	NE	5340	suspendUser
3.3.7 ADMIN-SUSPEND-CLR, page 3-5	NE	5350	suspendUserClear
3.3.8 AUD-ARCHIVE-FAIL, page 3-5	EQPT	6350	archiveOfAuditLogFailed
3.3.9 AUTOWDMANS, page 3-5	NE	5690	automaticWdmAnsFinished
3.3.10 BLSR-RESYNC, page 3-5	OCN	2100	blsrMultiNodeTableUpdateCompleted

Table 3-1   ONS 15454 Transient Condition Alphabetical Index (continued)

Transient Condition	Entity	SNMP Number	SNMP Trap
3.3.11 DBBACKUP-FAIL, page 3-5	EQPT	3724	databaseBackupFailed
3.3.12 DBRESTORE-FAIL, page 3-6	EQPT	3726	databaseRestoreFailed
3.3.13 EXERCISING-RING, page 3-6	OCN	3400	exercisingRingSuccessfully
3.3.14 EXERCISING-SPAN, page 3-6	OCN	3410	exercisingSpanSuccessfully
3.3.15 FIREWALL-DIS, page 3-6	NE	5230	firewallHasBeenDisabled
3.3.16 FRCDWKSWBK-NO-TRFSW, page 3-6	OCN	5560	forcedSwitchBackToWorkingResultedInNoTrafficSwitch
3.3.17 FRCDWKSWPR-NO-TRFSW, page 3-6	OCn	5550	forcedSwitchToProtectResultedInNoTrafficSwitch
3.3.18 INTRUSION, page 3-7	NE	5250	securityIntrusionDetUser
3.3.19 INTRUSION-PSWD, page 3-7	NE	5240	securityIntrusionDetPwd
3.3.20 IOSCFG-COPY-FAIL, page 3-7	—	3660	iosConfigCopyFailed
3.3.21 LOGIN-FAILURE-LOCKOUT, page 3-7	NE	5080	securityInvalidLoginLockedOutSeeAuditLog
3.3.22 LOGIN-FAILURE-ONALRDY, page 3-7	NE	5090	securityInvalidLoginAlreadyLoggedOnSeeAuditLog
3.3.23 LOGIN-FAILURE-PSWD, page 3-7	NE	5070	securityInvalidLoginPasswordSeeAuditLog
3.3.24 LOGIN-FAILURE-USERID, page 3-7	NE	3722	securityInvalidLoginUsernameSeeAuditLog
3.3.25 LOGOUT-IDLE-USER, page 3-8	—	5110	automaticLogoutOfIdleUser
3.3.26 MANWKSWBK-NO-TRFSW, page 3-8	OCN	5540	manualSwitchBackToWorkingResultedInNoTrafficSwitch
3.3.27 MANWKSWPR-NO-TRFSW, page 3-8	OCN	5530	manualSwitchToProtectResultedInNoTrafficSwitch
3.3.28 MSSP-RESYNC, page 3-8	STMN	4340	msspMultiNodeTableUpdateCompleted
3.3.29 PM-TCA, page 3-8	—	2120	performanceMonitorThresholdCrossingAlert
3.3.30 PS, page 3-8	EQPT	2130	protectionSwitch
3.3.31 PSWD-CHG-REQUIRED, page 3-9	NE	6280	userPasswordChangeRequired
3.3.32 RMON-ALARM, page 3-9	—	2720	rmonThresholdCrossingAlarm
3.3.33 RMON-RESET, page 3-9	—	2710	rmonHistoriesAndAlarmsResetReboot
3.3.34 SESSION-TIME-LIMIT, page 3-9	NE	6270	sessionTimeLimitExpired
3.3.35 SFTWDOWN-FAIL, page 3-9	EQPT	3480	softwareDownloadFailed
3.3.36 SPAN-NOT-MEASURED, page 3-9	OTS	6440	spanMeasurementCannotBePerformed
3.3.37 SWFTDOWNFAIL, page 3-9	EQPT	3480	softwareDownloadFailed

Table 3-1 **ONS 15454 Transient Condition Alphabetical Index (continued)**

Transient Condition	Entity	SNMP Number	SNMP Trap
3.3.38 USER-LOCKOUT, page 3-10	NE	5030	userLockedOut
3.3.39 USER-LOGIN, page 3-10	NE	5100	loginOfUser
3.3.40 USER-LOGOUT, page 3-10	NE	5120	logoutOfUser
3.3.41 WKSWBK, page 3-10	EQPT, OCN	2640	switchedBackToWorking
3.3.42 WKSWPR, page 3-10	2R, TRUNK, EQPT, ESCON, FC, GE, ISC, OCN, STSMON, VT-MON	2650	switchedToProtection
3.3.43 WRMRESTART, page 3-10	NE	2660	warmRestart
3.3.44 WTR-SPAN, page 3-11	—	3420	spanIsInWaitToRestoreState

3.2 Trouble Notifications

The ONS 15454 system reports trouble by using standard condition characteristics that follow the rules in Telcordia GR-253 and graphical user interface (GUI) state indicators.

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

3.2.1 Condition Characteristics

Conditions include any problem detected on an ONS 15454 shelf. They can include standing or transient notifications. You can retrieve a snapshot of all currently raised conditions on the network, node, or card in the CTC Conditions window or by using the RTRV-COND commands in Transaction Language One (TL1).

Note Some cleared conditions are found on the History tab.

For a comprehensive list of conditions, refer to the *Cisco ONS SONET TL1 Command Guide* and the *Cisco ONS SDH TL1 Command Guide*.

3.2.2 Condition States

The History tab state (ST) column indicates the disposition of the condition, as follows:

- A raised (R) event is active.

- A cleared (C) event is no longer active.

- A transient (T) event is automatically raised and cleared in CTC during system changes such as user login, log out, and loss of connection to node view. Transient events do not require user action.

3.3 Transient Conditions

This section lists in alphabetical order all the transient conditions encountered in Software Release 7.0. The description, entity, SNMP number, and SNMP trap accompany each condition.

3.3.1 ADMIN-DISABLE

The Disable Inactive User (ADMIN-DISABLE) condition occurs when the administrator disables a user or when a account is inactive for a specified period.

This transient condition does not result in a standing condition.

3.3.2 ADMIN-DISABLE-CLR

The Disable Inactive Clear (ADMIN-DISABLE-CLR) condition occurs when the administrator clears the disable flag on a user account.

This transient condition does not result in a standing condition.

3.3.3 ADMIN-LOCKOUT

The Admin Lockout of User (ADMIN-LOCKOUT) condition occurs when the administrator locks a user account.

This transient condition does not result in a standing condition.

3.3.4 ADMIN-LOCKOUT-CLR

The Admin Lockout Clear (ADMIN-LOCKOUT-CLR) condition occurs when the administrator unlocks a user account or when the lockout time expires.

This transient condition does not result in a standing condition.

3.3.5 ADMIN-LOGOUT

The Admin Logout of User (ADMIN-LOGOUT) condition occurs when the administrator logs off a user session.

This transient condition does not result in a standing condition.

3.3.6 ADMIN-SUSPEND

The Suspend User (ADMIN-SUSPEND) condition occurs when the password for a user account expires.

This transient condition does not result in a standing condition.

3.3.7 ADMIN-SUSPEND-CLR

The Suspend User Clear (ADMIN-SUSPEND-CLR) condition occurs when the user or administrator changes the password.

This transient condition does not result in a standing condition.

3.3.8 AUD-ARCHIVE-FAIL

The Archive of Audit Log Failed (AUD-ARCHIVE-FAIL) condition occurs when the software fails to archive the audit log. The condition normally occurs when the user refers to an FTP server that does not exist, or uses an invalid login while trying to archive. The user must log in again with correct user name, password, and FTP server details.

This transient condition does not lead to a standing condition.

3.3.9 AUTOWDMANS

The Automatic WDM ANS Finish (AUTOWDMANS) condition indicates that an automatic node setup (ANS) command has been initiated. It normally occurs when you replace dense wavelength division multiplexing (DWDM) cards; the condition is an indication that the system has regulated the card.

This transient condition does not result in a standing condition.

3.3.10 BLSR-RESYNC

The BLSR Multinode Table Update Completed (BLSR-RESYNC) condition might occur when you create or delete circuits on a bidirectional line switched ring (BLSR) or multiplex section-shared protection ring (MS-SPRing), change a ring topology (for example, add or delete a BLSR/MS-SPRing node), or change the BLSR/MS-SPRing circuit state and ring ID.

This transient condition does not result in a standing condition.

3.3.11 DBBACKUP-FAIL

The Database Backup Failed (DBBACKUP-FAIL) condition occurs when the system fails to back up the database when the backup command is initiated.

This condition can occur when the server is not able to handle the backup operation due to network or server issues. Repeat the same operation again and check to see if it is successful. If the backup fails, it could be due to a network issue or software program failure. Contact the Cisco Technical Assistance Center (TAC) for assistance; see the "Obtaining Documentation and Submitting a Service Request" section on page xxxiv as needed.

3.3.12 DBRESTORE-FAIL

The Database Restore Failed (DBRESTORE-FAIL) condition occurs when the system fails to restore the backed up database when the restore command is initiated.

This condition can be due to server issues, network issues, or human error (pointing to a file that does not exist, wrong file name, etc.). Retrying the database restore with the correct file will usually succeed. If the network issue persists, you must contact network lab support. If the condition is caused by a network element (NE) failure, contact Cisco TAC for assistance. See the "Obtaining Documentation and Submitting a Service Request" section on page xxxiv as needed.

3.3.13 EXERCISING-RING

The Exercising Ring Successfully (EXERCISING-RING) condition occurs whenever you issue an Exercise Ring command from CTC or TL1. This condition indicates that a command is being executed.

3.3.14 EXERCISING-SPAN

The Exercising Span Successfully (EXERCISING-SPAN) condition occurs whenever you issue an Exercise Span command from CTC or TL1. This condition indicates that a command is being executed.

3.3.15 FIREWALL-DIS

The Firewall Has Been Disabled (FIREWALL-DIS) condition occurs when you provision the firewall to Disabled.

This transient condition does not result in a standing condition.

3.3.16 FRCDWKSWBK-NO-TRFSW

The Forced Switch Back to Working Resulted in No Traffic Switch (FRCDWKSWBK-NO-TRFSW) condition occurs when you perform a Force Switch to the working port or card and the working port or card is already active.

This transient condition might result in a Force Switch (Ring or Span) standing condition for a BLSR or MS-SPRing.

3.3.17 FRCDWKSWPR-NO-TRFSW

The Forced Switch to Protection Resulted in No Traffic Switch (FRCDWKSWPR-NO-TRFSW) condition occurs when you perform a Force Switch to the protect port or card, and the protect port or card is already active.

This transient condition does not result in a standing condition.

3.3.18 INTRUSION

The Invalid Login Username (INTRUSION) condition occurs when you attempt to log in with an invalid user ID.

This transient condition does not result in a standing condition.

3.3.19 INTRUSION-PSWD

The Security Intrusion Attempt Detected (INTRUSION -PSWD) condition occurs when you attempt to log in with an invalid password.

This transient condition does not result in a standing condition.

3.3.20 IOSCFG-COPY-FAIL

The Cisco IOS Config Copy Failed (IOSCFG-COPY-FAIL) condition occurs on ML-Series Ethernet cards when the software fails to upload or download the Cisco IOS startup configuration file to or from an ML-Series card. This condition is similar to the "SFTWDOWN-FAIL" condition on page 3-9, but the IOSCFG-COPY-FAIL condition applies to ML-Series Ethernet cards rather than the TCC2/TCC2P card.

3.3.21 LOGIN-FAILURE-LOCKOUT

The Invalid Login–Locked Out (LOGIN-FAILURE-LOCKOUT) condition occurs when you attempt to log into a locked account.

This transient condition does not result in a standing condition.

3.3.22 LOGIN-FAILURE-ONALRDY

The Security: Invalid Login–Already Logged On (LOGIN-FAILURE-ONALRDY) condition occurs when a user attempts to log in to a node where the user already has an existing session and a Single-User-Per-Node (SUPN) policy exists.

This transient condition does not result in a standing condition.

3.3.23 LOGIN-FAILURE-PSWD

The Invalid Login–Password (LOGIN-FAILURE-PSWD) condition occurs when you attempt to log in with an invalid password.

This transient condition does not result in a standing condition.

3.3.24 LOGIN-FAILURE-USERID

The Invalid Login–Username (LOGIN-FAILURE-USERID) condition occurs when a user login (CTC, Cisco Transport Manager [CTM], or TL1) fails because the login username is not present on the node database. You must log in again with an existing user ID.

This transient condition is equivalent to a security warning. You must check the security log (audit log) for other security-related actions that have occurred.

3.3.25 LOGOUT-IDLE-USER

The Automatic Logout of Idle User (LOGOUT-IDLE-USER) condition occurs when a user session is idle for too long (the idle timeout expires) and the session terminates as a result. You must log in again to restart your session.

3.3.26 MANWKSWBK-NO-TRFSW

The Manual Switch Back To Working Resulted in No Traffic Switch (MANWKSWBK-NO-TRFSW) condition occurs when you perform a Manual switch to the working port or card and the working port or card is already active.

This transient condition does not result in a standing condition.

3.3.27 MANWKSWPR-NO-TRFSW

The Manual Switch to Protect Resulted in No Traffic Switch (MANWKSWPR-NO-TRFSW) condition occurs when you perform a Manual switch to the protect port or card and the protect port or card is already active.

This transient condition results in a BLSR or MSSP Manual Switch (Span or Ring) standing condition.

3.3.28 MSSP-RESYNC

The MS-SPRing Multi-Node Table Update Completed (MSSP-RESYNC) condition occurs when a node receives all relevant information such as payload, path state, Routing Information Protocol (RIP), cross-connect tables, and cross-connect VT tables from the other nodes in the ring. This condition is raised on all nodes in the ring while a node is added or a circuit is provisioned. This transient condition will not be cleared and is seen in the History tab of CTC.

You must check this condition on all the nodes and then remove the Forced Ring Switch commands.

3.3.29 PM-TCA

The Performance Monitoring Threshold Crossing Alert (PM-TCA) condition occurs when network collisions cross the rising threshold for the first time.

3.3.30 PS

The Protection Switch (PS) condition occurs when traffic switches from a working/active card to a protect/standby card.

3.3.31 PSWD-CHG-REQUIRED

The User Password Change Required (PSWD-CHG-REQUIRED) condition occurs when you are denied login for a shell function such as Telnet or FTP because you did not change the login password. You can change the password through CTC or TL1.

3.3.32 RMON-ALARM

The Remote Monitoring Threshold Crossing Alarm (RMON-ALARM) condition occurs when the remote monitoring (RMON) variable crosses the threshold.

3.3.33 RMON-RESET

The RMON Histories and Alarms Reset Reboot (RMON-RESET) condition occurs when the time-of-day settings on the TCC2/TCC2P card are increased or decreased by more than five seconds. This invalidates all the history data, and RMON must restart. It can also occur when you reset a card.

3.3.34 SESSION-TIME-LIMIT

The Session Time Limit Expired (SESSION-TIME-LIMIT) condition occurs when a login session exceeds the time limit and you are logged out of the session. You must log in again.

3.3.35 SFTWDOWN-FAIL

The Software Download Failed (SFTDOWN-FAIL) condition occurs when the system fails to download the required software.

An incorrect input that points to the wrong place or file, network issues, or a bad (corrupt) package can cause this failure. Retrying the operation with the correct name/location will usually succeed. If network issues persist, you must contact the network lab support. If the package is corrupt, contact Cisco TAC. See the "Obtaining Documentation and Submitting a Service Request" section on page xxxiv for details.

3.3.36 SPAN-NOT-MEASURED

The SPAN-NOT-MEASURED condition is raised when a node cannot perform the span loss verification as it cannot communicate with its peer at the other end of the span.

3.3.37 SWFTDOWNFAIL

The Software Download Failed (SFTDOWN-FAIL) condition occurs when the system fails to download the required software.

An incorrect input that points to the wrong place or file, network issues, or a bad (corrupt) package can cause this failure. Retrying the operation with the correct name/location will usually succeed. If network issues persist, you must contact the network lab support. If the package is corrupt, contact Cisco TAC. See the "Obtaining Documentation and Submitting a Service Request" section on page xxxiv for details.

3.3.38 USER-LOCKOUT

The User Locked Out (USER-LOCKOUT) condition occurs when the system locks an account because of a failed login attempt. To proceed, the administrator must unlock the account or the lockout time must expire.

3.3.39 USER-LOGIN

The Login of User (USER-LOGIN) occurs when you begin a new session by verifying your user ID and password.

This transient condition does not result in a standing condition.

3.3.40 USER-LOGOUT

The Logout of User (USER-LOGOUT) condition occurs when you stop a login session by logging out of your account.

This transient condition does not result in a standing condition.

3.3.41 WKSWBK

The Switched Back to Working (WKSWBK) condition occurs when traffic switches back to the working port or card in a nonrevertive protection group.

This transient condition does not result in a standing condition.

3.3.42 WKSWPR

The Switched to Protection (WKSWPR) condition occurs when traffic switches to the protect port or card in a nonrevertive protection group.

This transient condition does not result in a standing condition.

3.3.43 WRMRESTART

The Warm Restart (WRMRESTART) condition occurs when the node restarts while it is powered up. A restart can be caused by provisioning, such as a database restore or IP changes, or by software defects. A WRMRESTART is normally accompanied by MANRESET or AUTORESET to indicate whether the reset was initiated manually (MAN) or automatically (AUTO).

This is the first condition that appears after a TCC2/TCC2P card is powered up. The condition changes to COLD-START if the TCC2/TCC2P card is restarted from a physical reseat or a power loss.

3.3.44 WTR-SPAN

The Span is in Wait To Restore State (WTR-SPAN) condition occurs when a BLSR or MS-SPRing switches to another span due to a Signal Failure-Span command or a fiber is pulled from a four-fiber BLSR/MS-SPRing configuration. The condition is raised until the WaitToRestore (WTR) period expires.

This transient condition clears when the BLSR/MS-SPRing returns to a normal condition or the IDLE state.

3.3.44 WTR-SPAN