



Cisco ONS 15454 SONET Multiservice Provisioning Platform System Software Release 2.3.4

Release 2.3.4 is a maintenance release designed to further enhance the R2.x.x code base. This upgrade is recommended for any users presently operating software releases 2.3.3 and earlier.

Cisco ONS 15454 Release 2.3.4 Maintenance Issue Resolutions

The Cisco[®] ONS 15454 solution is deployed in a wide variety of customer networks in multiple applications. Customer feedback and the Cisco testing group help identify areas of improvement, which ultimately drives the constant evolution of the product and its functions. Cisco ONS 15454 Release 2.3.4 software is designed to further strengthen the overall software code base through the resolution of the following notable system anomalies.

Users operating any of the Cisco ONS 15454 Release 2.x.x software loads are encouraged to upgrade to this new software maintenance release.

Notable Resolved Issues

DDTS Number CSCdw48828

If a near-end protection switch is initiated within 30 seconds of a TCC switch, traffic will be lost. Traffic is restored by forcing traffic away from the active span and then releasing the force. To avoid this issue, lock the spans on the neighboring nodes before doing the TCC reset or reseat. This will prevent an outage as long as all spans remain intact. This issue is resolved in Releases 2.3.4, 3.2.1, and later.

DDTS Number CSCdy31096

A TCC memory corruption can occur when either of the following occurs:

- A user logs into the VxWorks shell with a Telnet client that sends only `\r` (for example, no `\n`) after entering the password.
- A user types more than 512 characters at the login prompt.

If the former occurs, the TCC may reset after closing the Telnet session. If the latter occurs, the TCC will typically reset immediately. To avoid this issue, do not use the VxWorks Telnet interface if your Telnet client does not send `\r\n` to terminate lines. Also, do not type more than 512 characters at the login prompt. This issue is resolved in Releases 2.3.4, 3.4, and later.

DDTS Number CSCdv44748

After resetting or replacing the standby TCC, the standby TCC may change to the READY state (standby light illuminates indicating the TCC is ready to become active) before database synchronization has necessarily taken place. A TCC switch before database synchronization can result in partial or complete provisioning loss. This issue is resolved in Release 2.3.4.



DDTS Number CSCdz18060

Rarely, the standby TCC may fail to copy the database from the active TCC after a provisioning change. This may occur due to heavy load on the node at the time of transfer. If this occurs, the database on the standby TCC will be out of sync with the database on the active TCC. To correct this situation, make a provisioning change that will have no service-affecting implications (for example, a change to contact information, or a description) to force another database save. This issue is resolved in Release 2.3.4, Release 3.4.1, and later. Please look to release notes for additional detail.

DDTS Number CSCea03171

TCC memory exhaustion (the MEM-LOW or MEM-GONE alarm will be raised) can lead to unpredictable behavior. This issue has been resolved in Release 2.3.4 (and Release 5.0 and later) by increasing the threshold at which the memory-related alarms are raised. Also, an automatic TCC reset will occur when memory reaches 180 KB in Release 2.3.4 (and Release 5.0 and later).

DDTS Number CSCdu49768 and CSCdu34969

When you reseat an active TCC, if a near-end protection switch is initiated within 30 seconds of the TCC switch, traffic will be lost. Traffic is restored by forcing traffic away from the active span and then releasing the force. To avoid this issue, lock the spans on the neighboring nodes before performing the TCC reset or reseat. This will prevent an outage as long as all spans remain intact. This issue is resolved in Releases 2.3.4, 3.2.1, and later.

DDTS Number CSCdy47156

A memory leak can occur after bulk PM retrieval. The only application that is likely to trigger this issue is the Cisco Transport Manager. Although the memory leak is small, Cisco Transport Manager gathers PM data every 15 minutes, so the amount of memory lost grows over time, and thus can become more serious over time. To avoid this issue, do not use Cisco Transport Manager to gather PM data. This issue is resolved in Release 2.3.4.

DDTS Number CSCdy53297

Logging into TL1 generates a minor memory leak (32 bytes). This issue is resolved in Release 2.3.4.

For additional details regarding R2.3.4 resolutions, consult the Release Notes (Release 2.3.4) posted to the Cisco Web site at the following URL:

http://www.cisco.com/en/US/products/hw/optical/ps2006/prod_release_notes_list.html

Compatibility with Previous Versions

The Cisco ONS 15454 R2.3.4 software requires the use of either the TCC or TCC+ timing, communications and control processor cards. Cisco ONS 15454 common control and interface cards released before R2.2.0 are compatible with this software load. Before inserting a new node into an operating ring or linear network, all existing Cisco ONS 15454 nodes connected via optical SDCC interfaces should be upgraded to a consistent level of system software to ensure proper operation.

Availability

The Cisco ONS 15454 Release 2.3.4 system software is orderable now with shipments beginning March 24, 2003. For customers with Cisco.com accounts, R2.3.4 is also available for download from the Cisco Software Center.

Ordering Information

The Cisco ONS 15454 Release 2.3.4 system can be ordered from your Cisco sales representative or through the Cisco online ordering tool. Specific product codes and descriptions are detailed below.

Product Code	Description
15454-R2.3.4SWCD=	Release 2.3.4 Feature Package, CD-ROM

More Information

For more information about the Cisco ONS 15454, go to:

<http://www.cisco.com/en/US/products/hw/optical/ps2006/index.html>

To order Cisco equipment, visit:

<http://www.cisco.com/en/US/ordering/index.shtml>



Corporate Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 526-4100

European Headquarters
Cisco Systems International BV
Haarlerbergpark
Haarlerbergweg 13-19
1101 CH Amsterdam
The Netherlands
www-europe.cisco.com
Tel: 31 0 20 357 1000
Fax: 31 0 20 357 1100

Americas Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-7660
Fax: 408 527-0883

Asia Pacific Headquarters
Cisco Systems, Inc.
Capital Tower
168 Robinson Road
#22-01 to #29-01
Singapore 068912
www.cisco.com
Tel: +65 6317 7777
Fax: +65 6317 7799

Cisco Systems has more than 200 offices in the following countries and regions. Addresses, phone numbers, and fax numbers are listed on the

Cisco Web site at www.cisco.com/go/offices

Argentina • Australia • Austria • Belgium • Brazil • Bulgaria • Canada • Chile • China PRC • Colombia • Costa Rica • Croatia
Czech Republic • Denmark • Dubai, UAE • Finland • France • Germany • Greece • Hong Kong SAR • Hungary • India • Indonesia • Ireland
Israel • Italy • Japan • Korea • Luxembourg • Malaysia • Mexico • The Netherlands • New Zealand • Norway • Peru • Philippines • Poland
Portugal • Puerto Rico • Romania • Russia • Saudi Arabia • Scotland • Singapore • Slovakia • Slovenia • South Africa • Spain • Sweden
Switzerland • Taiwan • Thailand • Turkey • Ukraine • United Kingdom • United States • Venezuela • Vietnam • Zimbabwe

All contents are Copyright © 1992–2003 Cisco Systems, Inc. All rights reserved. Cisco, Cisco Systems, and the Cisco Systems logo are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the U.S. and certain other countries.

All other trademarks mentioned in this document or Web site are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company.
(0303R) VT/LW4452 0403