



Release Notes for Cisco ONS 15454 SONET and SDH, Release 9.2.1

Published: January 23, 2013, OL-23886-05

Release notes contain the new features and enhancements for the Cisco ONS 15454 SONET and SDH platforms. For detailed information regarding features, capabilities, hardware, and software introduced with this release, refer to the “Release 9.2.1” version of the *Cisco ONS 15454 Procedure Guide*, *Cisco ONS 15454 Reference Manual*, *Cisco ONS 15454 Troubleshooting Guide*, *Cisco ONS 15454 SDH TL1 Command Guide* and *Cisco ONS 15454 SONET TL1 Command Guide*. For the latest version of the Release Notes for Cisco ONS 15454 SONET and SDH, Release 9.2.1, visit the following URL:

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

The following table shows the platforms supported in different releases.

Release	Supported Platforms
9.2.1	Cisco ONS 15454 SONET and Cisco ONS 15454 SDH
9.2.1.1	Cisco ONS 15454 SONET and Cisco ONS 15454 SDH
9.2.1.3	Cisco ONS 15454 SONET and Cisco ONS 15454 SDH
9.2.1.4	Cisco ONS 15454 SDH
9.2.1.5	Cisco ONS 15454 SONET and Cisco ONS 15454 SDH

Cisco also provides Bug Toolkit, a web resource for tracking defects. To access Bug Toolkit, visit the following URL:

<http://tools.cisco.com/Support/BugToolKit/action.do?hdnAction=searchBugs>

Contents

- [Revision History, page 2](#)
- [Important Package Information, page 2](#)
- [Software and Hardware Requirements, page 2](#)



Americas Headquarters:
Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA

- [Critical Bug Fix in Release 9.2.1.5, page 3](#)
- [Critical Bug Fixes in Release 9.2.1.4, page 3](#)
- [Critical Bug Fixes in Release 9.2.1.1 and 9.2.1.3, page 3](#)
- [Using the Bug ToolKit, page 4](#)
- [New Features and Functionality, page 6](#)
- [Related Documentation, page 6](#)
- [Obtaining Documentation and Submitting a Service Request, page 7](#)

Revision History

This section documents supplemental changes that have been added to the *Release Notes for Cisco ONS 15454 SONET and SDH, Release 9.2.1* since the production of the Cisco ONS 15454 System Software CD for Release 9.2.1.

Date	Notes
January 2013	Added the section Critical Bug Fix in Release 9.2.1.5, page 3 .
May 2012	Added the section Critical Bug Fixes in Release 9.2.1.4, page 3 .
January 2012	Added the section Critical Bug Fixes in Release 9.2.1.1 and 9.2.1.3, page 3 .

Important Package Information

In Release 9.2.1, the ONS 15454 package is split into two separate packages as follows:

- 15454 TDM—This package includes the Cisco ONS 15454 SONET and SDH Multiservice Provisioning Platform (MSPP)
- 15454 DWDM—This package includes the Cisco ONS 15454, Cisco ONS 15454 M2, and Cisco ONS 15454 M6 Multiservice Transport Platform (MSTP)



Note

Hybrid nodes are not supported in Releases 9.2 and later.

Software and Hardware Requirements

Before you begin to install Cisco ONS 15454 Software Release 9.2.1, you must check if your system meets the minimum software and hardware requirements. This section describes the software and hardware requirements for Cisco ONS 15454 Software Release 9.2.1.

- Hardware—IBM-compatible PC with a Pentium IV or faster processor, CD-ROM drive, a minimum of 1 GB RAM, 20 Gb hard disk with 250 MB of available hard drive space
- Operating System:
 - Windows 2000 Professional, Windows XP Professional, Windows Vista, or Windows 7, Windows Server 2003 and 2008.

- UNIX workstation with Solaris Version 9 or 10 on an UltraSPARC-III or faster processor, with a minimum of 1 GB RAM and a minimum of 250 MB of available hard drive space.
- Apple Mac OS X, CTC Needs to be installed using the CacheInstaller available on CCO or the ONS CD.

(Use the latest patch/Service Pack released by the OS vendor. Check with the vendor for the latest patch/Service Pack.)

- Supported Java Runtime Environment—JRE 1.7.
- Supported Browser for PC—Internet Explorer 6.x, 7.x, 8.x. For UNIX Workstation—Mozilla 1.7. For Mac OS-X PC—Safari

Critical Bug Fix in Release 9.2.1.5

Packets that are sent from the ML-MR-10 card through the POS interface, which become smaller than 64 bytes after a VLAN pop, are dropped.

Critical Bug Fixes in Release 9.2.1.4

Release 9.2.1.4 software addresses the following critical fixes. These bug fixes are applicable only to Cisco ONS 15454 SDH platform.

- The subnetwork connection protection (SNCP) circuit does not switch in case of signal degrade in the VC3 path.
- The BITS-IN timing may not be locked in phase when the node is operational for at least 15 days.
- Memory leaks when the SNMPWalk query is executed on dsx1ConfigTable.

Critical Bug Fixes in Release 9.2.1.1 and 9.2.1.3

Release 9.2.1.1 and 9.2.1.3 software addresses the following critical fixes:

- Memory leak issues when the following TL1 commands are executed:
 - RST-STs
 - RMV-STs
 - ED-STs
 - RTRV-PROTNSW-STs::all
 - RTRV-COND-STs
 - OPR-LPBK-STs
 - ENT-BITS
 - RTRV-BITS
 - ENT-SYNcN
 - OPR-SYNcN
 - RLS-SYNcN
 - RTRV-SYNcN

- RTRV-ALM-SYNCN
 - DLT-FFP-OCN
 - ED-FFP-OCN
 - ENT-FFP-OCN
 - ENT-CRS-STS
 - ED-CRS-STS
 - DLT-CRS-STS
 - RTRV-FFP-OC48
 - RTRV-PM-T1
 - RTRV-PM-STS1
 - RTRV-PM-VT1
 - RTRV-PM-T3
 - RTRV-PM-OC48
 - RTRV-T1
 - RTRV-EC1
 - RTRV-T3
 - RTRV-VT1
 - RTRV-COND-BITS
 - RTRV-COND-ALL
 - RTRV-OCN
 - RTRV-COND-SYNCN
- Controller cards resetting when the tNetConf task is executed.
 - Memory corruption caused by HW-LCAS circuits created when POS ports are administratively down on the ML cards.

Using the Bug ToolKit

In Cisco ONS 15454 Software Release 9.2.1 and later, use the Bug ToolKit to view the list of outstanding and resolved bugs in a release. This section explains how to use the Bug ToolKit.

Search Bugs

This section explains how to use the Bug ToolKit to search for a specific bug or to search for all the bugs in a specified release.

Step 1 Go to <http://tools.cisco.com/Support/BugToolkit/action.do?hdnAction=searchBugs>

You will be prompted to log into Cisco.com. After successful login, the Bug Toolkit page opens.

Step 2 Click **Launch Bug Toolkit**.

Step 3 To search for a specific bug, enter the bug ID in the **Search for Bug ID** field and click **Go** in the **Search Bugs** tab.

To search for bugs in a specific release, enter the following search criteria:

- Select Product Category—Select **Optical Networking**.
- Select Products—Select **Cisco ONS 15400 Series** from the list.
- Software Version—Select **9.21, 9.211, 9.213, 9.214, or 9.215** to view the list of outstanding and resolved bugs in Cisco ONS 15454 Software Release 9.2.1.
- Search for Keyword(s)—Separate search phrases with boolean expressions (AND, NOT, OR) to search within the bug title and details.
- Advanced Options—You can either perform a search using the default search criteria or define custom criteria for an advanced search. To customize the advanced search, select **Use custom settings for severity, status, and others** and provide the following information:

- Severity—Select the severity level.
- Status—Select **Open, Fixed, or Terminated**.

Select **Open** to view all the open bugs. To filter the open bugs, clear the Open check box and select the appropriate sub-options that appear below the Open check box. The sub-options are New, Held, More, Open, Waiting, Assigned, Forwarded, Postponed, Submitted, and Information Required. For example, if you want to view only new bugs in Cisco ONS 15454 Software Release 9.2.1, only select **New**.

Select **Fixed** to view fixed bugs. To filter fixed bugs, clear the Fixed check box and select the appropriate sub-options that appear below the fixed check box. The sub-options are **Resolved** or **Verified**.

Select **Terminated** to view terminated bugs. To filter terminated bugs, clear the Terminated check box and select the appropriate sub-options that appear below the terminated check box. The sub-options are **Closed, Junked, and Unreproducible**. Select multiple options as required.

- Advanced—Select the **Show only bugs containing bug details** check box to view only those bugs that contain detailed information, such as symptoms and workarounds.
- Modified Date—Select this option if you want filter bugs based on the date on which the bugs were last modified.
- Results Displayed Per Page—Select the appropriate option from the list to restrict the number of results that appear per page.

Step 4 Click **Search**. The Bug Toolkit displays the list of bugs based on the specified search criteria.

Export to Spreadsheet

The Bug ToolKit provides the following options to export bugs to a spreadsheet:

- Click **Export All to Spreadsheet** link in the Search Results page under the Search Bugs tab. Specify file name and folder name to save the spreadsheet. All the bugs retrieved by the search will be exported.
- Click **Export All to Spreadsheet** link in the My Notifications tab. Specify file name and folder name to save the spreadsheet. All the saved bugs in all the groups will be exported.

If you are unable to export the spreadsheet, log into the Technical Support Website at <http://www.cisco.com/cisco/web/support/index.html> for more information or call Cisco TAC (1-800-553-2447).

New Features and Functionality

The following sections highlight new features and functionality for Release 9.2.1. For detailed documentation of each of these features, consult the user documentation.

New Software Features and Functionality

The following new software feature is added for Release 9.2.1:

- [Transaction Language 1 \(TL1\), page 6](#)

Transaction Language 1 (TL1)

This section contains list of Command Syntax Changes and Command Response Changes. For detailed information, please refer to *Cisco ONS SONET TL1 Command Guide* and *Cisco ONS SDH TL1 Command Guide*.

New Commands

No new TL1 commands are added in Release 9.2.1.

Command Syntax Changes

The syntax of the following commands have changed:

- ED-EQPT
- ED-L2-ETH
- ENT-EQPT

Command Response Changes

The following TL1 command responses have changed:

- RTRV-EQPT
- RTRV-L2-ETH

Related Documentation

Release-Specific Documents

Use the Release Notes for Cisco ONS 15454 SONET and SDH, Release 9.2.1 in conjunction with the following referenced Release 9.2.1 publications:

- Release Notes for Cisco ONS 15310-MA, Release 9.2.1
- Release Notes for Cisco ONS 15310-MA SDH, Release 9.2.1
- Release Notes for Cisco ONS 15454, ONS 15454 M2, and ONS 15454 M6 DWDM, Release 9.2.1
- Release Notes for the Cisco ONS 15600, Release 9.2.1

- Release Notes for the Cisco ONS 15600 SDH, Release 9.2.1
- Upgrading the Cisco ONS 15454 to Release 9.2.1
- Upgrading the Cisco ONS 15454 SDH to Release 9.2.1

Platform-Specific Documents

- *Cisco ONS 15454 Procedure Guide*
Provides installation, turn up, test, and maintenance procedures
- *Cisco ONS 15454 Reference Manual*
Provides technical reference information for SONET cards, nodes, and networks.
- *Cisco ONS 15454 Troubleshooting Guide*
Provides a list of SONET alarms and troubleshooting procedures, general troubleshooting information, and hardware replacement procedures.
- *Cisco ONS 15454 SDH Procedure Guide*
Provides installation, turn up, test, and maintenance procedures.
- *Cisco ONS 15454 SDH Reference Manual*
Provides technical reference information for SDH cards, nodes, and networks.
- *Cisco ONS 15454 SDH Troubleshooting Guide*
Provides a list of SDH alarms and troubleshooting procedures, general troubleshooting information, and hardware replacement procedures.
- *Cisco ONS SONET TL1 Command Guide*
Provides a comprehensive list of TL1 commands.
- *Cisco ONS SDH TL1 Command Guide*
Provides a comprehensive list of TL1 commands.
- *Cisco ONS 15454 and Cisco ONS 15454 SDH Ethernet Card Software Feature and Configuration Guide*
Provides technical reference and configuration information for Ethernet cards.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

Subscribe to the *What's New in Cisco Product Documentation* as a Really Simple Syndication (RSS) feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service and Cisco currently supports RSS version 2.0.

This document is to be used in conjunction with the documents listed in the “Related Documentation” section.

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: www.cisco.com/go/trademarks. Third-party trademarks mentioned 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. (1110R)

Any Internet Protocol (IP) addresses used in this document are not intended to be actual addresses. Any examples, command display output, and figures included in the document are shown for illustrative purposes only. Any use of actual IP addresses in illustrative content is unintentional and coincidental.

© 2013 Cisco Systems, Inc. All rights reserved.

