



Release Notes for Cisco ONS 15600 SDH Release 9.2.1

Published: June 30, 2012, OL-23805-03

Release notes contain the new features and enhancements for the Cisco ONS 15600 SDH platform. 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 15600 Installation and Operations Guide; *Cisco ONS 15600 SDH Procedure Guide*; *Cisco ONS 15600 SDH Reference Manual*; *Cisco ONS 15600 SDH Troubleshooting Guide*; and *Cisco ONS 15600 SDH SONET TLI Command Guide*. For the latest version of the Release Notes for Cisco ONS 15600 SDH Release 9.2.1, visit the following URL:

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

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>

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

Changes to the Release Notes

This section documents supplemental changes that have been added to the *Release Notes for Cisco ONS 15600 SDH Release 9.2.1* since the production of the Cisco ONS 15600 SDH System Software CD for Release 9.2.1.

- Updated the section [New Features and Functionality, page 3](#).
- Added the section [TSC Card Database Synchronization, page 4](#)

Using the Bug ToolKit

In Cisco ONS 15600 SDH 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.

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- Step 1** Go to <http://tools.cisco.com/Support/BugToolkit/action.do?hdnAction=searchBugs>
- Step 2** You will be prompted to log into Cisco.com. After you login, the Bug Toolkit page opens.
- Step 3** Click **Launch Bug Toolkit**.
- Step 4** 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 all the bugs in a specified release, enter the following search criteria in the **Search Bugs** tab:

- Select Product Category—Select **Optical Networking**.
- Select Products—Select **Cisco ONS 15600 Series** from the list.
- Software Version—Select **9.21**, **9.211**, or **9.213** to view the list of outstanding and resolved bugs in Cisco ONS 15600 SDH 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 15600 SDH 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 5 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

This section highlights 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 latest version of Release 9.2.1 software addresses the following critical fixes:

- ASAP card reporting CONTBUS-IO and DCC-FAIL alarms.
- Loss of database when TSC card with Release 9.1 or later release software is installed as a stand-by card.
- Controller cards resetting when the tNetConf task is executed.
- Controller cards crashing when SNMP query getNext is executed.
- Controller cards failing due to cyclic redundancy checks (CRC) failure.

The following section highlights 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:

- [TSC Card Database Synchronization, page 4](#)
- [Transaction Language 1 \(TL1\), page 4](#)

TSC Card Database Synchronization

(Release 9.2.13 and later releases)

When there is a mismatch between the active and standby TSC card databases, the Standby Database Out Of Synchronization (DBOSYNC) alarm is raised and a cyclic redundancy check (CRC) is performed on the active TSC card to verify if the software database is corrupt. The active TSC card database is synchronized with the standby TSC card and the DBOSYNC alarm is cleared only if the database in the active TSC card is not corrupt. If the CRC check fails on the active TSC card, the Flash Manger writes the database from RAM to the active TSC card. When the database write on the active TSC card fails the Primary Nonvolatile Backup Memory Failure (BKUPMEMP) alarm is raised and the system performs protection switch by resetting the active TSC card so that the standby TSC card becomes active. This ensures that the corrupted database is not synchronized from the active TSC card to the standby TSC card.

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
- ENT-EQPT

Command Response Changes

The following TL1 command response has changed:

- RTRV-EQPT

Related Documentation

Release-Specific Documents

Use the Release Notes for Cisco ONS 15600 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 Cisco ONS 15454 SONET and SDH, Release 9.2.1
- Release Notes for Cisco ONS 15600, Release 9.2.1

Platform-Specific Documents

- *Cisco ONS 15600 SDH Procedure Guide*
Provides installation, turn up, test, and maintenance procedures
- *Cisco ONS 15600 SDH Reference Manual*
Provides technical reference information for SONET/SDH cards, nodes, and networks
- *Cisco ONS 15600 SDH Troubleshooting Guide*
Provides a list of SDH alarms and troubleshooting procedures, general troubleshooting information, and hardware replacement procedures
- *Cisco ONS 15454 SDH and Cisco ONS 15600 SDH TL1 Command Guide*
Provides a comprehensive list of TL1 commands

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.

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