Release Notes for Cisco ONS 15454 DWDM, Release 10.8

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Release Notes

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This Release Notes document contains information about new features and enhancements, in the Cisco platforms.

Cisco also provides Bug Search Tool, a web resource for tracking defects. To access Bug Search Tool, visit the following URL: https://bst.cloudapps.cisco.com/bugsearch.

Revision History

Table 1: Revision History

Date	Notes
June 2023	Updated with **TLS Version Support** section.
December 2017	This is the first release of this publication.

Software and Hardware Requirements

Before you begin to install the software, you must check whether your system meets the following minimum software and hardware requirements:

- Hardware—Intel Core i5, i7, or faster processor. A minimum of 4 GB RAM, 100 GB hard disk with 250 MB of available hard drive space.

- One of the following operating systems:
  - Windows 7, Windows Server 2008, or later
  - Apple Mac OS X
  - 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.
  - Ubuntu 12.10
- Java Runtime Environment—JRE 1.8 and later.
- Java version 8.0
- Browser:
  - Internet Explorer
  - Mozilla Firefox
  - Safari
  - Google Chrome

JRE Compatibility

The JRE Compatibility table displays the JRE compatibility with software releases.

Supported Pluggables

The document at the following URL lists the GBIC, SFP, SFP+, QSFP, XFP, CXP, CFP, and CPAK modules that are supported on the Cisco platforms:

New Features in Release 10.8

This section highlights the new features in Release 10.8. For detailed information of each of these features, see the user documentation.

Hardware

OPT-EDFA-35 Amplifier Card

The OPT-EDFA-35 card is a C-band, DWDM EDFA amplifiers/preamplifiers with +23dBm output power. The card includes two identical amplification sections to serve two fiber directions simultaneously, and each section has a switchable gain range that allow its usage over a wide gain range.

The OPT-EDFA-35 card is bidirectional. The cards acts on both pairs of fibers entering and exiting in/from the node. The card has an operative optical gain range up to 24 dB and 35 dB.

For more information, see the Provisioning Optical Amplifier Cards chapter in the .

Pluggable Port Module Support

The 400G-XP card supports the 16GFC-QSFP-SM pluggable.

Software Features

This section lists the software features and enhancements introduced in Release 10.8.

OTDR Enhancements

- Scan performances are improved using specific scan parameters targeted on the characteristics of the fiber plant such as span length, reflection contributions, and major events.
- OTDR identifies the Fiber End as a fiber termination event along with reflection or loss event.
- Automode scan is enhanced with the composite trace.
- Fast Span Trace is displayed to the user for quick reference before the composite trace.
- OTDR module can perform Optical Return Loss (ORL) measurement.
- Any ongoing scan operation can be cancelled.
- A progress bar is provided to the user for each scan in the sector that displays the percentage of execution of the entire scan operation.
- It is possible to activate automatic scan on ORL value exceeding the provisioned threshold.
- The insertion loss due to amplifier cards and patchcords is displayed in the OTDR provisioning panel.
- New OTDR alarms and conditions are introduced to provide more information about the OTDR functionality.
- Prevention of WSON circuit creation is extended for new OTDR alarms and conditions.
- CTC panes for OTDR provisioning are redesigned for better user experience.

For more information about OTDR enhancements, see the Turn Up a Node chapter in the and the *Manage the Node* document.

OTN-XC on 400G-XP-LC Card

The 400G-XP-LC card supports a new OTN cross-connect (OTNXC) operating mode. This mode allows ODU2e switching between client-to-trunk ports or trunk-to-trunk ports within a single 400G-XP-LC card for 100G and 200G trunk rates. Both trunk ports are configured with the same rate(100G or 200G). Only 10GE client payloads are supported.

You can create 20xODU2e trunk-to-trunk connections or up to 40x10GE client-to-trunk connections. The card supports up to 20x10GE circuits with SNC-N 1+1 bidirectional protection. SNC-N is supported on the client ports of slice 1 and slice 2

For more information, see the Provisioning Transponder and Muxponder Cards chapter in the .

REGEN Mode on 400G-XP LC Card

In the REGEN mode, the 400G-XP LC behaves as a standard regenerator. This functionality is supported only on the trunk ports.

For more information, see the Provisioning Transponder and Muxponder Cards chapter in the .

Software Enhancements

The OpenSSH has been upgraded to CiscoSSH 1.4 .

Card Support in Cisco NCS 2015

The GE_XP, 10GE_XP, GE_XPE,10GE_XPE, MXP_MR_10DME_C, and OPT-RAMP-CE cards are supported on the Cisco NCS 2015 chassis.

For more information, see the Provisioning Transponder and Muxponder Cards chapter in the .

TLS Version Support

The supported version of Transport Layer Security (TLS) protocol is 1.2.

TL1 Commands

The TL1 commands introduced in R10.8 are

- DLT-CRS-ODU
- ED-CRS-ODU
- ED-ODU
- ED-TRC-ODU
- ENT-CKTINFO-ODU
- ENT-CRS-ODU
- INIT-REG-ODU
- OPR-PROTNSW-ODU
- RLS-PROTNSW-ODU
- RTRV-ALM-ODU
- RTRV-CKTINFO-ODU
- RTRV-COND-ODU
- RTRV-CRS-ODU
- RTRV-ODU
- RTRV-ORLRXPARAM
- RTRV-OTDREQPTIL
- RTRV-OTDRORLTHR
- RTRV-OTDRORLVAL
- RTRV-OTDRSCANPROGRESS
- RTRV-PM-ODU

- RTRV-PMSCHED-ODU
- RTRV-PROTNSW-ODU
- RTRV-TH-ODU
- RTRV-TRC-ODU
- SCHED-PMREPT-ODU
- SET-ORLRXPARAM
- SET-OTDRORLTHR
- SET-TH-ODU

Alarms

The alarms introduced in R10.8 are:

- APS-PROV-MISM
- APS-NO-RESPONSE
- OTDR-SCAN-NOT-COMPLETED
- OTDR-FAST-FAR-END-IN-PROGRESS
- OTDR-HYBRID-FAR-END-IN-PROGRESS
- OTDR-ORL-TRAINING-IN-PROGRESS-TX
- OTDR-ORL-TRAINING-IN-PROGRESS-RX
- OTDR-ORL-THRESHOLD-EXCEEDED-TX
- OTDR-ORL-THRESHOLD-EXCEEDED-RX
- OTDR-FIBER-END-NOT-DETECTED-TX
- OTDR-FIBER-END-NOT-DETECTED-RX
- OTDR-OTDR-TRAINING-FAILED-TX
- OTDR-OTDR-TRAINING-FAILED-RX
- OTDR-ORL-TRAINING-FAILED-TX
- OTDR-ORL-TRAINING-FAILED-RX

For more information, see the Alarm Troubleshooting chapter in the .

Cisco Bug Search Tool

Use the Bug Search Tool (BST) to view the list of outstanding and resolved bugs in a release.

BST, the online successor to Bug Toolkit, is designed to improve the effectiveness in network risk management and device troubleshooting. The tool allows partners and customers to search for software bugs based on product, release, and keyword, and aggregates key data such as bug details, product, and version. The tool

has provision to filter bugs based on credentials to provide external and internal bug views for the search input.

To search for a specific bug, go to Bug Search Tool (BST) and search the bug ID in the **Search For** field. For more information on BST, see Bug Search Help.

Search Bugs in BST

Follow the instructions below to search bugs specific to a software release in BST.

Procedure

Step 1 Go to https://bst.cloudapps.cisco.com/bugsearch/.

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

Step 2 To search for release specific bugs, enter the following parameters in the page:

a) Search For — Enter **ONS 15454** in the text box.
b) Releases — Enter the appropriate release number.
c) Show Bugs — Select **Affecting or Fixed in these Releases**.

Step 3 Press **Enter**.

Note:

- By default, the search results include bugs with all severity levels and statuses. After you perform a search, you can filter your search results to meet your search requirements.
- An initial set of 25 search results is shown in the bottom pane. Drag the scroll bar to display the next set of 25 results. Pagination of search results is not supported.

Short Description

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