Release Notes for Cisco ONS 15454 DWDM, Release 11.1

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Cisco ONS 15454 DWDM Release Notes

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This Release Notes document contains information about new features and enhancements, in the Cisco ONS 15454 DWDM platforms.

For the latest version of the Release Notes for Cisco ONS 15454, visit the following URL:

http://www.cisco.com/en/US/products/ps13234/prod_release_notes_list.html

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.
October 2019	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

Documentation Roadmap

Use the documentation roadmap to quickly access publications of Cisco ONS 15454 DWDM, Release 11.x.x
https://www.cisco.com/c/en/us/td/docs/optical/r11/dwdm/doc-roadmap-ons/b-onsroadmap11xx.html

JRE Compatibility

The JRE Compatibility table displays the JRE compatibility with ONS 15454 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 ONS 15454 platforms:

https://www.cisco.com/c/en/us/td/docs/optical/spares/gbic/guides/b_ons_pluggables.html

New Features in Release 11.1

This section highlights the new features in Release 11.1. For detailed information of each of these features, see the user documentation.

Hardware

Pluggable Port Module Support

The supported pluggable is ONS-QSFP-4X10-MER. The 400G-XP card supports ONS-QSFP-4X10-MER pluggable.

For more information, see the *Installing the GBIC, SFP, SFP+, QSFP, XFP, CXP, CFP and CPAK Optical Modules in Cisco ONS Platforms*.

Software Features

Note Before you dive into this release's features, we invite you to content.cisco.com to experience the features of the Cisco Content Hub. Here, you can, among other things:

- Create customized books to house information that's relevant only to you.
- Collaborate on notes and share articles by experts.
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This section lists the software features and enhancements introduced in Release 11.1.

Submarine Line Terminal Equipment (SLTE)

In Submarine Line Terminal Equipment (SLTE) topology, the NCS2K-20-SMRFS= card of NCS 2000 node aggregates channels from transponders, say NCS 1004. If there is more than one channel SMR card, they are connected by the 1*6 AD-CFS passive module. The aggregated channels from this passive module are transmitted to the fan-out module that covers signals from other geographical locations and the SMR card. The channels are then transmitted to the SLTE SMR card that faces the submarine system.

Note The NCS2K-20-SMRFS= card supports SLTE. The licensed version of the card does not support SLTE.

For more information, see the Node Reference chapter in the *Cisco ONS 15454 DWDM Network Configuration Guide, Release 11.x.x.*.

400G-XP-LC Enhancements

Interoperability with 10x10G-LC card - The OPM_PEER_ODU2 and OPM_PEER_ODU2e slice modes are available on Slice 2 when the 400G-XP-LC card is configured in the MXP mode for any trunk configuration. These slice modes support interoperability with a peer 10x10G-LC card. The peer 10x10G-LC card can only be installed in an even slot of the Cisco NCS 2006 or Cisco NCS 2015 chassis. The payloads supported on the 10x10G-LC card are OTU2, OTU2e, OC192/STM64, and 10GE.

For more information, see the Provisioning Transponder and Muxponder Cards chapter in the *Cisco ONS 15454 DWDM Line Card Configuration Guide, Release 11.0*.

GMPLS Enhancements

- Restoration is supported on the Regen NCS 1004.
- Manages greater than 50dB high span loss from validation.
- Supports the 200G QPSK from the NCS 1004.

For more information, see the Creating Optical Channel Circuits and Provisionable Patchcords chapter in the *Cisco ONS 15454 DWDM Network Configuration Guide, Release 11.x.x*.

LOGO Expert Mode

When the Expert mode is configured for an optical side, spectral parameters such as Linear XT avg, Linear XT Stdev, Non-linear XT avg and Non-linear XT Stdev are used by the control plane for optical validation. These parameter values are obtained from the XML file. These spectral values must not be modified, unless instructed by the Cisco TAC representative.

For more information, see the Creating Optical Channel Circuits and Provisionable Patchcords chapter in the *Cisco ONS 15454 DWDM Network Configuration Guide, Release 11.x.x*.

TLS Version Support

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

Alarms

The alarms introduced in Release 11.1 are:

- TRAF-AFFECT-SEC-UPG-REQUIRED
- NON-TRAF-AFFECT-SEC-UPG-REQUIRED

For more information, see the Alarm Troubleshooting chapter in the *Cisco NCS 2000 series Troubleshooting Guide, Release 11.x.x*.

Known Issue

The TNC card resets when alarm suppression is enabled over USB.

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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