Release Notes for Cisco Optical Network Planner, Release 4.1

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Hardware and Software Requirements

The hardware and software requirements for installing Cisco ONP are:

Hardware Requirements

You need UCS server or Linux VM with Ubuntu 18.04.3.

Recommended Server Configuration for Cisco ONP and LNI:

- 8 CPU, 48 GB RAM, and 500GB server free space after installation, for 3 concurrent Parallel ONP analysis with LNI of 500 devices
- 8 CPU, 64 GB RAM, and 500GB server free space after installation, for 6 concurrent Parallel ONP analysis with LNI of 500 devices
- 8 CPU, 96 GB RAM, and 500GB server free space after installation, for 10 concurrent Parallel ONP analysis with LNI of 500 devices

Software Requirements

- Operating System Release: Ubuntu 16.04.5 or 18.04.3
- Clients require the latest version of the Google Chrome browser.
- Recommended version of the Google Chrome browser:
  - For Windows: Version 88.0.4324.150
  - For Mac: Version 87.0.4280.141

Supported Platforms and Releases

Cisco ONP supports the following platforms:

Table 1: Supported Platforms and Releases

Platforms	Recommended and Supported Releases
NCS 1000	7.0.1
NCS 2000	11.0.0, 11.1.0, 12.0.1, 12.1.0
NCS 4000	6.5.28

What's New in Cisco ONP Release 4.1

Cisco is continuously enhancing the product with every release and this section covers a brief description of key features and enhancements. It also includes links to detailed documentation, where available.

Feature	Description
Cisco Optical Network Planner	
CSDL Compliance Enhancements	The following CSDL compliance enhancements are supported: • Displays the last login IP address of the client. • Allows you to set a passphrase for encryption of credentials during the installation of LNI application and database.
Confidential Banner	This feature indicates the confidentiality of the reports or results generated by Cisco ONP for a network. The CONFIDENTIAL banner is placed in all the exported reports. It is placed in the first row and first cell of the Excel sheet, followed by a blank row and the contents of the exported report.
Layout Template Enhancement	This feature allows you to export the layout template for individual site or for all the sites. The layout template export is possible only if the network is analyzed in Cisco ONP Release 4.1. The export of layout template is supported on 4K, 4K-1K-2K, and 2K nodes.
Layout Visualization and Edit	This feature allows you to view and adjust the position of NCS 4016 and NCS 1004 chassis and cards in the layout. This feature is supported only on 4K-1K-2K and 1K-2K aggregated nodes and not supported on stand-alone NCS 2000 node.
Live Network Import	This feature allows you to import a live deployed network having NCS 1000, NCS 2000, and NCS 4000 nodes into Cisco ONP, using the LNI (Live Network Import) import template. This feature also allows you to view network topology, BOM, and layout report.

Feature	Description
MLP Brownfield with Diff BoM	This feature allows you to perform the following: • Compare the BOMs of two or more LNI imported networks • Upgrade brownfield network • Upgrade Cisco ONP network with traffic sites
Manual Editing of Raman COP values	This feature allows you to edit the crosstalk values of the Raman COP amplifier in the SSON network, starting from NCS 2000 Release 11.1.
Multi-Layer Connections Phase 1	This feature provides the connection trace of a service across various interfaces in a network. This feature allows you to export the following: • Consolidated port usage report based on network in addition to the internal port details which you can view by hovering the mouse pointer over the tooltip • Port usage report based on sites • Port usage report only for LNI imported networks
Multi-Layer Platform (MLP) Greenfield Design with NCS 4k-1k-2k	This feature allows you to perform the following: • Supports NCS 4K-1K-2K multi-platforms • Visualizes new layout for Txp and SVO for NCS 2000 node • Supports different OTN service types with protection • Edits layout for NCS 4000 and NCS 1000 nodes
Pluggable Support	QSFP-100G-FR-S= pluggable is supported on the QSFP ports of the 400G-XP LC transponder card with 100GE data rate.
Protection Types Supported	The following protection schemes are supported: • 1+R: For each service, Cisco ONP finds one working path and one restoration path. • 1+1+R: For each service, Cisco ONP finds one working path, one protected path, and one restoration path. • 1+1+R+R: For each service, Cisco ONP finds one working path, one protected path, and two restoration paths.
Release Upgrade	This feature allows you to choose the NCS 2000 system release to the desired release (11.1.0, 12.0.1, or 12.1.0), while performing the release upgrade of CTP network, Cisco ONP network, network imported through Excel, and LNI network.
Services Aggregation	Services aggregation feature allows two or more services to share the same trunk port or channel. By default, the services are added to the DefaultGroup. You can also export the aggregation reports.

Feature	Description
UI Revamp of Optical Reports	This feature improves the user experience while comparing the installation parameters and optical reports of two networks.
Upgrade LNI Network	This feature allows you to upgrade and modify the imported LNI (Live Network Import) network as required. You can also correct LNI errors, reanalyze the network, and view the updated parameters such as BOM, layout, connections, and optical results.
Wavelength Forcing at the Section Level	This feature allows you to assign different wavelengths for different sections of the Regen sites.
What-if Analysis for OTN Services	This feature extends the current implementation of What-if analysis for the OTN Services that are connecting the aggregated nodes. The failure report includes the number of failed services, restored services, and unrestored services. This feature is supported for SSON (4K-1K-2K and 1K-2K) and non-SSON (4K-2K) networks.

Caveats

Open Caveats

Table 2: Open Caveats

Caveat ID Number	Description
CSCvw79857	Getting unexpected critical error on analysis
CSCvx15744	Getting duplicate fiber error when performing nonpurge import with already imported devices
CSCvx25386	Inventory collection failure due to larger Kafka message size than expected
CSCvx26822	Frame type is incorrectly set as OC3 for TNCS-2O card in LNI Import Upgrade analysis
CSCvx28449	Forced section wavelengths are appearing in reverse order in the autocreated media channel after analysis.
CSCvx28523	Section wavelengths are appearing in reverse order in the UI after analysis
CSCvx04162	Raman crosstalk parameters missing from the ANS file

Bug Search Tool

Cisco Bug Search Tool (BST) is a web-based tool that acts as a gateway to the Cisco bug tracking system that maintains a comprehensive list of defects and vulnerabilities in Cisco products and software. BST provides you with detailed defect information about your products and software.

Other Important Information

- If Cisco ONP shows a blank screen, refresh the browser. If you still see the blank screen, login to Cisco ONP again.