Release Notes for Cisco Optical Network Planner, Release 26.1.1

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Hardware and software requirements

The hardware and software requirements for installing Cisco ONP, Release 26.1.1 are:

Hardware requirements

You need to have an Ubuntu server with version 22.04 or 24.04, or Red Hat server with versions 8.8 or 8.10

Recommended Server Configuration for Cisco Optical Network Planner (ONP):

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

Software requirements

- Supported browsers: Google Chrome, Mozilla Firefox, and Microsoft Edge
- Recommended version of the Google Chrome browser:
    - For Windows: Version 145.0.7632.117
    - For Mac: Version 145.0.7632.110
- Recommended version of the Microsoft Edge browser:
    - For Windows: Version 145.0.3800.70
    - For Mac: Version 145.0.3800.70
- Recommended version of the Mozilla Firefox browser:
    - For Windows: Version 148.0
    - For Mac: Version 146.0.1

Note: For optimal Cisco ONP user experience, we recommend a minimum internet speed of 100 Mbps

Note: We recommend using Mozilla Firefox for large scale networks for better user experience.

Supported platforms and releases

Cisco ONP supports the following platforms and releases:

Table 1. Supported platforms and releases

Platforms	Recommended and supported releases
NCS 1001	7.10.1, 25.4.1
NCS 1004	24.3.1, 25.4.1
NCS 1014	24.3.1, 25.1.1, 26.1.1

Platforms	Recommended and supported releases
NCS 1010	7.10.1, 7.11.1, 24.3.1, 25.1.1, 26.1.1
NCS 1020	24.3.1, 25.1.1
NCS 2000	11.1.0, 25.1.1, 26.1.1
NCS 4000	6.5.33

What's new in Cisco Optical Network Planner, Release 26.1.1

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.

This section provides a brief description of the new software features introduced in this release.

New features for Cisco Optical Network Planner, Release 26.1.1

Product impact	Feature	Description
Cisco Optical Network Planner Configuration		
Software Reliability	Reusable predefined user profiles	Now you can save all network and site-level settings into a reusable profile file, in the CONP database. You can use this profile during network designing, ensuring consistent configurations across different designs and teams. This feature eliminates repetitive manual setup, reduces errors, and streamlines configuration sharing and management within an organization.
Software Reliability	Live network import enhancements	The live network import feature now offers the following enhancements: • Supports the NCS 1001 platform. • Handles colored, colorless, and mixed configurations for NCS 2000. • Includes all NCS 1000 native transponders for NCS 2000, NCS1010, and NCS1001 platforms. • Imports network with mixed nodes by grouping NCS2000, NCS1010, and NCS1001 nodes into separate, platform-

		specific Cisco ONP networks. These improvements enhance network planning, boost automation, and ensure consistent, error-free network upgrades and configurations.
Software Reliability	CONC licenses support	Two new network-level properties**, CONC License Package** and **CONC Term Preference**, have been introduced to the Network application configuration category. Depending on the selected properties, the following licenses may be included in the BOM: CONC RTM ESS SM, CONC RTM SPC SM, CONC RTM API SM, CONC RTM ESS LG, CONC RTM SPC LG, and CONC RTM API LG. This feature allows you to identify and order the necessary COSM and CONC licenses for your comprehensive Optical Automation Software (OAS) solution based on the network configuration.
Software Reliability	COSM enhancements	COSM application memory and COSM RAM Size are considered for COSM association through COSM Application Memory and COSM RAM size properties at site level.
Software Reliability	Cisco ONP BoM based on license offer structure	Cisco ONP introduces a network-level Licensing Model option within the Bill of Materials category. You can select between **Smart Licensed** and **Perpetual** licensing models for your deployment. This feature is available on NCS 1010, NCS 1014, NCS 1001, NCS 2000 4K-1K-2K SSON networks. The generated BoM will accurately represent the hardware, software, and licenses that can be ordered for the chosen Authorize-to-Order (ATO) bundle. This enhancement ensures that the BoM aligns with your specific licensing needs, allowing for flexible and precise license selection within Cisco ONP. Consequently, order accuracy and compliance with Cisco's licensing models are enhanced, offering greater flexibility and transparency when configuring solutions in Cisco Commerce Workspace (CCW).
Software Reliability	2x100G muxponder mode support on NCS1K14-2.4T-X-K9 transponder card	Cisco ONP enables the 2x100GE muxponder mode on the NCS1K14-2.4T-X-K9 transponder card when designing networks for the NCS 1010, NCS 1014, CS 1001, and NCS 2000 (1k-2K traffic site) platforms. This mode supports trunk rates ranging from 400G to 1.2T (excluding 700G) for both slice-0 and slice-1, and is compatible with client pluggables QDD-2X100-CWDM4-S and QDD-2X100-LR4-S. The 2x100G mode provides flexible and efficient aggregation of 100GE traffic, optimizing resource utilization and simplifying service provisioning within each platform's design.

Software Reliability	NCS 1010 network design enhancements	Cisco ONP has implemented the following enhancements for network design: ALC Phase II Device Parameters: • NETCONF XML files now include additional ALC phase II parameters such as Raman amplification and advanced optical settings for more precise device configuration. • Lookup Table (LUT) Improvements: • Raman gain values are now visible in LUT entries. • LUTs can be imported/exported, including CPZ data. • Raman side amplification is calculated from LUT entries for better modeling accuracy. • Tx connector loss is user-configurable and factored into PSD values. SSF simulation enhancements: • Uses secure HTTPS protocol for communication with SSF server. • Supports multi-subnet network analysis. • Displays estimated simulation timing in the analysis progress bar. • Enables background analysis without interrupting other tasks. • These updates enhance the accuracy, configurability, security, and usability of optical network planning and simulation for NCS 1010 networks.
Software Reliability	NCS1K14-FAN-P programmable fan for NCS 1014	The new NCS1K14-FAN-P programmable fan reduces power use and improves cooling efficiency by adjusting its speed to match the card load in the NCS 1014 chassis. It increases speed automatically when the chassis drives higher bandwidth or thermal demand, keeping airflow aligned with power requirements. Choose the programmable fan from the new NCS1014 Chassis Fan field at the network level.
Software Reliability	UI/UX enhancement	Cisco ONP is enhanced with these UI/UX designs: • Salesforce BoM – Choose Export > Salesforce BoM to get BoM report in Salesforce format. • Multiple network downloads –

		Choose File > Download Networks and select up to five network designs to download. • Ageing loss support in imported and exported excel sheet • Network tree structure retention – Network tree does not collapse after parameter updates. • Populate shelves from bottom – Enable Populate Shelves From Bottom check box under Layout at site level to populate equipment from the bottom of the shelves. • Addition of equipment to restriction list – Add equipment to Restricted Equipment under System Release at network level to restrict the tool from using it in network design. • Database clean-up – Set hibernate.slowQuery.logging.enabled to true to enable database cleanup. • Automatic SD – Enable Auto at Optical Subnet level to enable basic automatic spectral density for the selected optical subnet. • Enhanced tuner mode – Added Maximum DataRate Maximum Capacity and Maximum DataRate Best OSNR to calculate results based on maximum data rate per maximum capacity and best OSNR. • Interoperability support for all networks – Allows different source and destination card types to interoperate. • Link availability report –

		Choose Export > Link Availability for an analyzed network to download the network design with link availability values. • Enhanced optical source search – More keywords are added to the search box to find Optical sources based on file parameters. • Frequency update in wavelength – Now wavelength values contain corresponding frequency values. • Editable Unique ID for chassis in Layout tab – Choose Edit > Edit Unique ID to edit the chassis UID for an analyzed network.
Software Reliability	Support for all NCS 1000 transponders	These NCS 1000 transponders are supported: • NCS1K14-2.4T-K9 • NCS1K14-2.4T-X-K9 • NCS1K14-2.4T-A-K9 • NCS1K4-1.2T-K9 • NCS1K4-1.2TL-K9 • NCS1K4-2-QDD-C-K9 • NCS1K4-OTN-XP-K9 • NCS1K4-QXP-K9
Software Reliability	Support for NCS1K14-2.4TA-K9 transponder card	Added support for the NCS1K14-2.4TA-K9 transponder card that operates in Bundle and Slice modes.
Software Reliability	Configuration gaps in NCS 2000 networks	NCS 2000 R11.x networks now support MD-32 add/drop configuration. All NCS 2000 networks support MD-48 add/drop configurations.
Software Reliability	Device Netconf and COSM support	Cisco Optical Site Manager XML supports NCS 1001 and NCS 1014 networks. NCS 1004 configurations are added to the XML file. NCS 1010 designs now include these parameters.

		• Patchcord Loss Threshold (applicable for C+L band device) • Ots Rx Low Threshold (applicable for C+L Raman device) • Bidirectional span-loss mismatch threshold • Payload OSC Min Deviation • Payload OSC Max Deviation Parameters based on Raman LUT and ALC2 and LUT: • Raman-tuning with-payload • Raman-tuning manual • Raman-tuning Raman-gain-target • Raman-turn-up <enable/disable> • Raman-safety-trigger dfb-los • Raman-safety-trigger osc-los • Raman-safety-trigger osc-osnr-los • Raman Pump Configuration such as Raman-tx-power-instance and Raman-tx-power-value

Open issues

This table lists the open issues in this specific software release.

Note: This software release may contain open bugs first identified in other releases. To see additional information, click the bug ID to access the Cisco Bug Search Tool (BST).

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Open issues

Open issues for Cisco Optical Network Planner

Bug ID	Description
CSCws29890	**Circuits are imported with internal IDs instead of Circuit Name/Label**
CSCws52323	**LNI NCS2K: NCS1K BoM is not displayed for a live imported NCS2K network with NCS1K TXP**

Bug ID	Description
CSCws79315	Actual connected port is not retained for circuits after LNI network upgrade analysis
CSCws94754	Line Card Licensing Type is not being set according to the corresponding PID during LNI import
CSCwr44234	Analysis - LNI-Traffic type is set to Optical source and defaulted to NCS1004 interface for all LNI
CSCwt31406	Optical results of Line Rate tuner do not match with CONP for QDD low power optics
CSCwt31440	Incorrect Optical parameters for L-band Optical Sources generated from Line rate tuner mode
CSCwt31566	Modulation GB is not being considered to calculate the Spectrum when BRK16/24 is used in C/L band

Legal information

Other Important Information

The CONP API is now open for external tools to:

- Create or open designs
- Update topology information (sites, fibers, demands)
- Execute analysis

- Fetch all reports
- Read the status of ongoing actions (design analysis, loading, file fetching)

  Additionally, the API allows external tools to force Raman amplification at the span level, including choosing the desired amplifier.