Release Notes for Cisco NCS 2000 Series Cisco Optical Site Manager, Release 25.1.1

First Published: 2025-10-21

Last Modified: 2025-11-18

What's new in NCS 2000 series Cisco Optical Site Manager, Release 25.1.1

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.

Feature	Description
System Setup and Software Installation	
Geographic Redundancy Support for High Availability	The Cisco Optical Site Manager now facilitates geographic redundancy by connecting two NCS 2000 nodes located in different places. The Geo HA Mode configuration in SVO-LCs ensures that redundancy is maintained if one of the NCS2000 nodes fails. HA mode can be deployed in three modes: • Local HA • Geo HA using the UDC channel • Geo HA between adjacent NCS 2000 nodes The YAML file is updated to include the redundancy mode setting: `redundancy-mode: "GEO_HA".`

Feature	Description
NCS 2000 Node Upgrade	The NCS 2000 nodes are upgraded to R25.1.1 to transition NCS 2000 node management from CTC to COSM. With this upgrade, you can manage the NCS 2000 nodes in the Node view of the COSM application. The list of SSON releases that upgrade to R25.1.1 SSON are: • R11.1.1.4 • R11.1.2.3 • R11.1.3 • R11.1.3.2 The node upgrade is a non-traffic-affecting operation and must be performed in the following order: • Install the SVO line card using CTC on the supported release. • Provision the SVO line card. • Launch COSM using the SVO line card. • Add nodes that do not have SVO line card.

Feature	Description
Configuration	
GMPLS UNI Circuit Connection	You can now establish circuit connections between two clients within an optical network using the Generalized Multiprotocol Label Switching (GMPLS) User Network Interface (UNI). This connection is facilitated through signaling exchanges between UNI Client (UNI-C) nodes, which are router nodes, and UNI Network (UNI-N) nodes, which are optical nodes. This integration enables effective usage of the DWDM grid with minimal wastage of spectral bandwidth and allows the transmission of mixed bit-rate or mixed modulation data in a grid with different channel widths.
SSH Upgrade	When you upgrade to R25.1.1, the SSH and SSL libraries upgrade to the latest revisions that provides better security, addressing vulnerabilities. New versions COSM supports after Upgrade (25.x) CISCOSSL: 1.1.1y.7.3.377 (6/6/2024) CISCOSSH: 1.14.55
Static Link Management Protocol configuration for GMPLS	You can now configure static Link Management Protocol (LMP) using the Cisco Optical Site Manager web UI to establish connectivity between an NCS 2000 node and NCS 1004 and NCS 1014 nodes for GMPLS UNI. This protocol efficiently manages the control channel across GMPLS UNIs, ensuring smooth Traffic Engineering (TE) link connectivity between interfaces. Furthermore, it performs fault management functions, helping in fault isolation, link property correlation, and verifying link connectivity.

Feature	Description

Support for NCS2000 Cards	The **Card Configuration Wizard** now supports these cards and their operating modes:
	• 10x10G-LC
	  • TXP-10G
	  • RGN-10G
	• 10x10G + 200G-CK-C
	  • MXP-10x10G
	• 200G-CK-C
	  • TXP-100G
	  • RGN-100G
	• 400G-XP-LC
	  • MXP
	  • RGN-100G
	  • RGN-200G
	• NCS2K-1.2T-MXP
	  • TXPMXP

Available and Removed CTC Panels	With this release, the Cisco Optical Site Manager Web UI introduces certain functionalities, leading to the removal of specific CTC features. The removed features are now supported within the Cisco Optical Site Manager Web UI.
Flexible Migration Options for NCS 2000 Management	This release improves flexibility and migration options for NCS 2000 management. Network-level and node-level functionalities can now be managed through Cisco Optical Network Controller or Cisco Optical Site Manager using SVO-LC. Transition to Cisco Optical Network Controller or Cisco Optical Site Manager at your own pace while continuing to use TL1, EPNM 8.1.1, and CTC. When ready, you can disable these legacy tools and adopt Cisco Optical Network Controller or Cisco Optical Site Manager as the primary management platform.

Software and hardware requirements

Before you use the SVO web user interface, ensure 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

- Operating System—Windows 10; macOS Mojave (10.14) and later
- Browsers—Mozilla Firefox 71 and later; Google Chrome 78.0 and later

Caveats

Open caveats

Cisco Optical Site Manager

This table lists the open caveats for Cisco Optical Site Manager:

Identifier	Headline
CSCwk61781	The SVO LC remains in OOS-SW-DWLD state and the Equipment state shows as Loading
CSCwn22613	The inventory data for the SVO-LC pluggables is unavailable
CSCwn97723	[Web UI]: Unable to set alarm thresholds on the optical transport interface for PSM cards
CSCwp66103	[COSM]: Port state change audit logs missing in COSM
CSCwo69847	[COSM-WebUI] - OXC-related alarms are not appearing in the card view of the alarm tab.
CSCwo35753	The Configured and Current frequency must be displayed in NFV for the NCS1K TXP
CSCwo59161	[NCS 2000-COSM]: OCM carrier/ASE support is missing for the NCS 2000
CSCwo25349	Incorrect alarm time is shown for demoted events with alarm correlation
CSCwo25822	PRBS configuration on the 200G-CK-C card results in it entering a failed-retained state
CSCwo57299	The client optical power performance monitoring (PM) on the NCS1K4-QXP-K9 card is inaccurate

NCS 2000

This table lists the open caveats for NCS 2000:

Identifier	Headline
CSCwk61781	The SVO LC remains in OOS-SW-DWLD state and the Equipment state shows as Loading
CSCwn90909	[SVO+GMPLS] Frequency is not updated in SVO after circuit creation
CSCwk90293	400G-XP-LC with first-tunable-wl has traffic down after upgrading to Rel25.x
CSCwk90249	[SSL/SSH]: The controllers (both Active and Standby) undergoes an expected additional reboot during the upgrade to 25.x

Identifier	Headline
CSCwn35677	Provisioning mismatch occurs on the CFP-LC PPM after upgrading from 11.132 to 25.11.
CSCwo42611	COSM ROADM or RTXP devices experience multiple resyncs during restoration

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.

Using bug search tool

You can use the Cisco Bug Search Tool to search for a specific bug or to search for all bugs in a release.

Procedure

Step 1 Go to the http://tools.cisco.com/bugsearch.

Step 2 Log in using your registered Cisco.com username and password.

The Bug Search page opens.

Step 3 Use any of these options to search for bugs, and then press Enter (Return) to initiate the search:

- To search for a specific bug, enter the bug ID in Search For field.
- To search for bugs based on specific criteria, enter search criteria, such as problem description, a feature or a product name, in the Search For field.
- To search for bugs based on products, enter or select a product from the Product list. For Example, if you enter "WAE," you get several options from which to choose.
- To search for bugs based on releases, in the Releases list select whether to search for bugs affecting a specific release, bugs that were fixed in a specific release, or both. Then enter one or more release numbers in the Release field.

Step 4 When the search results are displayed, use the filter tools to narrow the results. You can filter the bugs by status, severity, and so on. To export the results to a spreadsheet, click **Export Results to Excel**.

Other important information and references

Supported NCS 2000 upgrade paths

This table lists the software releases that can be upgraded:

Table 1: Upgrade paths

Source Release	Source Package	Destination Release	Destination Package
R11.1.2.3	SSON	R25.1.1	SSON
R11.1.3			
R11.1.3.2			
R11.1.1.4			

Resources

Open Source used in NCS 2000, Release 25.1.1

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