



# Cisco Evolved Programmable Network Manager 2.2.1 Release Notes

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# Functionality Added in Cisco EPN Manager 2.2.1

This section lists the new features/functionality delivered in Cisco EPN Manager 2.2.1.



**Note**

Features marked “BETA” provide limited functionality in this release. The intention is to fully support these features in the next release.

## GUI - General

- Enhancements to GUI accessibility for visually and physically impaired users, including background images, contrast ratio, font size, and tab focus.

## Device Lifecycle Management

- Chassis view support for:
  - ASR 9XX IOT family (ASR 902U, ASR 903U, ASR 920U)
  - ASR 9906 device running IOS-XR 6.3.2
  - N520-X-4G4Z-A device running IOS-XE 16.8.1
  - Fabric card A99-SFC2 in ASR 9912 device
- Display of the NCS 2000 TNC board Active or Standby state in the Chassis view.
- Display of the OCH circuit physical path in the Chassis view and the topology map.

## Device Configuration

- Ability to deploy a default, out-of-the-box template to configure the manageability settings for IOS-XR/E devices.
- “Partial Collection Failure” status is now “Completed with Warning” on the Last Inventory Collection Status.
- Ability to configure card protection on A900-IMA8CT1Z-M and A900-IMA8CS1Z-M cards in Cisco ASR 9xx devices and NCS4200-48T1E1-CE and NCS4200-48T3E3-CE cards in Cisco NCS 4200 devices.

## Management of Cable Devices

- Integration with Smart PHY 1.2.16 versions, with intelligent sync mechanism to refresh system data with Smart PHY changes.
- Certification provided for cBR-8 devices running IOS-XE versions 16.8, 16.8.1 and 16.8.2.
- Management of RPD global parameters such as configuring static routes, validating software compatibility, persisting running configuration and setting a time interval to make configuration changes persistent.
- Ability to use Mac Domain Split during RPD Service Profile creation for multicast traffic.
- Ability to visualize OCML connectivity between RPD and intermediate switches as a physical link in the topology in an IPv4/IPv6 network using cBR-8 as the seed device. Third party devices are not supported for this functionality.
- Ability to create RPD definitions and pair them with RPD MAC Addresses during field deployment, with options to split such pairing at any point to pair up with another RPD.
- Ability to clear RPD pairing information with cBR-8 devices and to view the history of RPD state changes.

- RPD Association page and RPD bulk import file headers have been updated to be consistent with CableLabs terminologies.
- Ability to configure the RPD polling interval by editing a property file.
- Ability to view bandwidth utilization for cable controllers, mac domains and fiber nodes.

### **QoS**

- Validation provided for the NCS 4000 6.1.42 for QOS on LAG
- Classification based on VLAN ID parameter

### **Circuits/VCs - General**

- Ability to resynchronize circuits/VCs (CE, CEM, L3VPN, MPLS-TE).

### **Carrier Ethernet**

- Ability to change the name of a UNI when modifying a service.
- Ability to use CLI templates to specify/modify the way L2CP packets are handled.
- Support for configuring CFM logging for a CE service using configuration templates.
- Additional OAM performance monitoring profile for point-to-point EVCs on NCS 540 devices (Performance Monitoring 4).
- BETA: Discovery and configuration of segment routing services
- Validation of CE provisioning on LAG port for NCS 4000 devices running IOS-XR 6.1.42.

### **L3VPN**

- Ability to change the name of a UNI when modifying a service.
- Ability to modify the OSPF configurations when modifying an L3VPN service.
- Ability to add a unique VPN ID for an L3VPN service.
- Ability to configure OSPFv3 for PE-CE routing between devices in an L3VPN service.

### **Serial**

- Ability to enable or disable interfaces for C37.94 and E&M service types.
- Ability to provision the RS422 service type.
- Ability to enable the synchronous mode of RS232 for the Raw Socket service.

### **MPLS-TE**

- BETA: Ability to integrate Cisco EPN Manager with a WAE server to calculate the explicit path for an MPLS TE tunnel.
- Performance improvements in MPLS-TE tunnel LSP processing.

### **Optical**

- Chassis view shows the route of an optical circuit through the device.
- Ability to view information about a failure that occurred in an Optical circuit in the Circuit History page.
- Ability to configure Alien Wavelength for source and destination nodes in an OCH circuit.
- Support for creating LMP links between Cisco NCS 20xx and Cisco CRS devices.

- Discovery of OTU links between the 400G-XC trunk ports, when GCC is enabled on a Cisco NCS device with 400G-XC trunk ports.
- Ability to add manual links:
  - Between two trunk ports on Cisco NCS 2000 series devices with 400-G-XP linecards. This link must be created as a managed OTU link.
  - From a Cisco NCS 2000 series device with 400-G-XP linecard and a Cisco NCS 4000 series device with 4H-OPW-QC2 linecards. This link must be created as a managed OTU link.
- Secondary proxy support provided for ENE network element (NCS 2000).
- Slice configuration of NCS 1000 devices cannot be deleted if the admin state of any of the client ports is UP.
- Ability to configure remote TXP shelf node for OCH-Trail UNI circuit provisioning on a network that uses NCS 2000 transponders.
- Ability to configure Ethernet controller module of NCS 1000 devices.
- Passive Device Inventory support for NCS 1000 devices (R6.3.2). Ability to manually match passive units with similar values.

**Topology and Geo Map**

- Ability to create and manage SRRG pool types and resource pools in order to group SRRGs into categories for identification and ID allocation purposes.
- Ability to launch the chassis view from the map from the overlay of an OCHCC circuit to see the physical route of the circuit through a specific device.
- Bandwidth utilization visualization enhancements:
  - Bandwidth utilization is now shown for all supported link types at the same time. Previously, only one link type at a time could be displayed.
  - Bandwidth utilization is now enabled/disabled by clicking on the arrow next to the Bandwidth Utilization icon in the top right corner of the map and selecting the Utilization check box.
  - Bandwidth utilization data is provided in all link-related views and tables, even if bandwidth utilization visualization is disabled.

**Fault Management**

- Polling of physical and LAG interfaces every 5 minutes to collect the link down status and update the Alarms tables.
- Alarm clearing mechanism is now supported for certain packet devices such as NCS 42xx. For the NCS 42xx devices, the alarm severity that is configured on the device will overwrite the alarm severity that is configured in Cisco EPN Manager.
- Generating or clearing alarms based on the inventory status for pseudowires, auto-backup tunnels, physical interfaces, LAG interfaces, tunnels, BGP, ISIS, and LDP,
- Alarm synchronization after node recovery from failure for PSU, FRU, Module Failure.

**Performance**

- Set a baseline for optical performance data against which current values can be compared.
- The following dashlets were moved from Dashboard/Performance/Y1731 tab to Dashboard/Network Summary/Top N Y1731 tab:
  - Top N Frame Loss

- Top N One-Way Jitter
- Top N One-Way Delay
- Top N Two-Way Delay
- Usability and performance improvements to optical performance dashboards. Separate tabs are now provided for each layer (ODU, OTU, SDH, etc.) to show statistics related to that layer.
- OTDR usability enhancements - ability to stop the scan and see progress indication.
- Enhancements to OTDR scan export functionality
- Independent authorization for setting the OTDR test baseline - Root, Super users and Admin
- The service performance dashboard now has an additional dashlet which shows end-to-end performance statistics for service probes and provides a cross-launch to the IPSLA dashboard for EVCs or to the Y.1731 dashboard for L3VPN services.
- Errors and discards metric has been changed from a percentage to the packet rate (pps)

### Reports

- Ability to filter and customize report data using user-defined fields.

### RESTCONF NBI

- Support for synchronizing devices via NBI.
- Support for NCS 2000/4000 LMP link configuration on REST (Wavenid/NCS 4000 to NCS 4000).
- API to manage LAG, including get LAG as part of TP retrieval, create, delete, assign, and unassign LAG operations.
- CFS retrieval enhancements:
  - Added configured explicit path details (ERO) for OCH-CC/NC/Trail circuits.
  - Supported ceased state data
  - Supported port constraints as link constraints
- MLT (Multi-Layer Trace) retrieval enhancements - path role data updated.
- Performance improvements in VC (Virtual Connection) and MLT (Multi-Layer Trace) retrieval.
- Support for color-aware configuration for Y1564.
- Support for PW ping/trace and CFM ping/trace status.
- Notification filter enhancements, for example, filtering on virtual connections.
- Alarm notification filter enhancements - severity filter improvements.
- Support for LOGO parameters for aggregated termination points.
- OCH Client/Trunk termination points support OSNR attribute.
- Ability to rename UNI interfaces.
- VC retrieval enhancement to support OSPF configuration for L3VPN.
- Support for fixed VPN-ID prefix for L3VPN provisioning.
- Retrieval of preferred paths (MPLS/SR TE tunnels) for underlying CE and CEM services.
- SDH support for T1/E1, T3/E3, VC11/VC12 and DS0 services on NCS42xx/ASR9xx devices running IOS-XE 16.6.1/16.7.1.
- Flexible way to specify Y1731 configuration parameters.

# Device/OS Support Added in Cisco EPN Manager 2.2.1

This section lists the new support provided in Cisco EPN Manager 2.2.1. For a list of all support information, click the gear icon at the top right of the web GUI and choose **Help > Supported Devices**.


**Note**

“BETA” means that the device/operating system has not yet been released but Cisco EPN Manager has been tested on the Beta version.

## Cisco NCS 520 Network Convergence Systems—New Device Support

Device Model	Device OS
Cisco NCS 520	IOS-XE 16.8.1 (BETA)
Cisco NCS 520-4G4Z-A	IOS-XE 16.8.1 (BETA)
Cisco NCS 520-X-4G4Z-A	IOS-XE 16.8.1 (BETA)

## Cisco NCS 540 Network Convergence Systems—New Device Support

Device Model	Device OS
Cisco NCS 540	IOS-XR 6.3.2

## Cisco NCS 1000 Network Convergence Systems—New Operating System Support

Device Model	Device OS
Cisco NCS 1001	IOS-XR 6.5.1 (without OTDR support)
Cisco NCS 1002	IOS-XR 6.5.1

## Cisco NCS 2000 Network Convergence Systems—New Operating System Support

Device Model	Device OS
Cisco NCS 2002	ONS 10.7.0.2, 10.9.0
Cisco NCS 2006	ONS 10.7.0.2, 10.9.0
Cisco NCS 2015	ONS 10.7.0.2, 10.9.0

## Cisco NCS 4000 Network Convergence Systems—New Operating System Support

Device Model	Device OS
Cisco NCS 4009	IOS-XR 6.1.42
Cisco NCS 4016	IOS-XR 6.1.42

**Cisco NCS 4200 Network Convergence Systems—New Operating System Support**

Device Model	Device OS
Cisco NCS 4201	IOS-XE 16.8.1 (BETA)
Cisco NCS 4202	IOS-XE 16.8.1 (BETA)
Cisco NCS 4206	IOS-XE 16.8.1 (BETA)
Cisco NCS 4216	IOS-XE 16.8.1 (BETA)
Cisco NCS 4216 F2B	IOS-XE 16.8.1 (BETA)

**Cisco ASR 900 Series Aggregation Services Routers—New Operating System Support**

Device Model	Device OS
Cisco ASR 902	IOS-XE 16.8.1 (BETA), IOS-XE 16.9.1a
Cisco ASR 903	IOS-XE 16.8.1 (BETA), IOS-XE 16.9.1a
Cisco ASR 907	IOS-XE 16.8.1 (BETA), IOS-XE 16.9.1a

**Cisco ASR 900U Series Aggregation Services Routers—New Operating System Support**

Device Model	Device OS
Cisco ASR 902U	IOS-XE 16.8.1 (BETA), IOS-XE 16.9.1a
Cisco ASR 903U	IOS-XE 16.8.1 (BETA), IOS-XE 16.9.1a
Cisco ASR 920U-12SZ-IM	IOS-XE 16.8.1 (BETA), IOS-XE 16.9.1a

**Cisco ASR 901S Series Aggregation Services Routers—New Operating System Support**

Device Model	Device OS
Cisco ASR 901S-4SG-F-D Router	IOS-XE 16.8.1
Cisco ASR 901S-3SG-F-D Router	IOS-XE 16.8.1
Cisco ASR 901S-2SG-F-D Router	IOS-XE 16.8.1
Cisco ASR 901S-2SG-F-AH Router	IOS-XE 16.8.1

**Cisco ASR 901 10G Series Aggregation Services Routers—New Operating System Support**

Device Model	Device OS
Cisco ASR 901-6CZ-F-A Router	IOS-XE 16.8.1
Cisco ASR 901-6CZ-F-D Router	IOS-XE 16.8.1

Device Model	Device OS
Cisco ASR 901-6CZ-FT-D Router	IOS-XE 16.8.1
Cisco ASR901-6CZ-FT-A Router	IOS-XE 16.8.1

**Cisco ASR 920 Series Aggregation Services Routers—New Operating System Support**

Device Model	Device OS
Cisco ASR 920 Router	IOS-XE 16.8.1, IOS-XE 16.9.1a
Cisco ASR 920 24SZIM Router	
Cisco ASR 920 24TZM Router	
Cisco ASR 920 24SZM Router	
Cisco ASR 920-12SZ-IM Router	
Cisco ASR 920 4S ZD Router	
Cisco ASR 920 8S Z0A Router	
Cisco ASR920 12 CZA Router	
Cisco ASR 920 12 CZ D Router	
Cisco ASR 920 4S ZA Router	
Cisco ASR 920 10S ZPD Router	

**Cisco ASR 9000 Aggregation Services Routers—New Operating System Support**

Device Model	Device OS
Cisco ASR 9001	IOS-XR 5.2.4, 6.3.2
Cisco ASR 9006	IOS-XR 5.2.4, 6.3.2
Cisco ASR 9010	IOS-XR 5.2.4, 6.3.2
Cisco ASR 9904	IOS-XR 5.2.4, 6.3.2
Cisco ASR 9910	IOS-XR 5.2.4, 6.3.2
Cisco ASR 9912	IOS-XR 5.2.4, 6.3.2
Cisco ASR 9922	IOS-XR 5.2.4, 6.3.2

**Cisco ASR 9000v Satellite Routers—New Device and Operating System Support**

Device Model	Device OS
Cisco ASR 9000v2	IOS-XR 6.1.4 (BETA)
Cisco IOS XRv 9000	IOS-XR 6.3.2 (BETA)



## Cable Modem Termination Systems (CMTS)—New Operating System Support

Device Model	Device OS
Cisco cBR-8 Converged Broadband Routers	IOS-XE 16.8, 16.8.1, 16.8.1ES2, 16.8.2

### Support for Generic Third Party Devices (BETA)

The following OIDs are supported:

- **SNMPv2**  
1.3.6.1.2.1.1(system)
- **ENTITY-MIB**  
1.3.6.1.2.1.47.1.1.1(entPhysicalTable)
- **IF-MIB**  
1.3.6.1.2.1.2.2(IfTable)
- **LLDP**  
1.0.8802.1.1.2.1.3.7(IldpLocPortTable)  
1.0.8802.1.1.2.1.4.2(IldpRemManAddrTable)  
1.0.8802.1.1.2.1.4.1(IldpRemTable)

## Supported Installation/Upgrade Paths

The following table lists the supported paths for installing/upgrading to Cisco EPN Manager 2.2.1 from previous versions.

Current Cisco EPN Manager Version	Upgrade Path to Cisco EPN Manager 2.2.1
Cisco EPN Manager 1.2.x, 2.0.x, or 2.1.x	Cisco EPN Manager 2.2 > 2.2.1
Cisco EPN Manager 2.2	Cisco EPN Manager 2.2.1
Cisco EPN Manager 2.2.0.x	Cisco EPN Manager 2.2.0.4 > 2.2.1

See the relevant [installation guide](#) for installation prerequisites and procedures for Cisco EPN Manager versions.

For point patch installation instructions, see the readme file supplied with the patch file on the [Software Download site on Cisco.com](#).

## Important Notes

- [Upgrade Issues](#)
- [Reconciliation Report Limitations](#)
- [Limitations on ME 1200 Devices](#)
- [Limitations on NCS 4200 Devices Running IOS-XE 16.8.1](#)
- [Limitations on IoT Devices Running IOS-XE 16.9.1](#)
- [EIGRP and RIP Not Supported](#)
- [Deprecation of Support for ONS 10.00.10, 10.01.00, 10.03.00](#)
- [Data Center Device Lifecycle Support Only](#)

## Upgrade Issues

After upgrading to Cisco EPN Manager 2.2.1:

- FTP and TFTP will be disabled by default after installing the maintenance pack.
- Active threshold crossing alarms (TCA) for temperature will remain active and will not be cleared. Please clear these alarms manually.
- Devices must be resynced in order to view ISIS links and ISIS LTPS.
- LDP-enabled devices must be resynced in order to view LDP feature-related information.
- TCAs for inbound/outbound errors and inbound/outbound discards must be recreated in the Interface Health monitoring policy.



**Note**

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Matlab processes have been removed from EPNM, starting Release 2.2.1.

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## TLS 1.2 Required for Secured Channel Communication for HTTPS and TLS

Only Transport Layer Security (TLS) 1.2 is supported for HTTPS and TLS related secured communication, for example, RADIUS EAP-TLS. Support for TLS 1.0, TLS 1.1, and all versions of SSL has been disabled due to security vulnerabilities.

This means that all peer systems and clients that transact with Cisco EPN Manager using HTTPS/TLS must support TLS 1.2. If they do not support TLS 1.2, they must be upgraded. Where possible, the Cisco EPN Manager documentation highlights the potentially affected systems. Please contact your Cisco representative for support in this regard, if necessary.

## Reconciliation Report Limitations

When provisioning a service, if you have not provided a value for any of the attributes, the provisioned value for those attributes will be displayed as “Missing” in the reconciliation report. The device may have default values for these attributes but Cisco EPN Manager does not have any values configured.

## Limitations on ME 1200 Devices

The Y.1564 performance test does not work if the source/destination is a ME 1200 device.

## Limitations on NCS 4200 Devices Running IOS-XE 16.8.1

The following functionality does not work on NCS 4200 devices running IOS-XE 16.8.1:

- Alarm profile
- Configuration of SONET LOP and CT3 LOP from the GUI
- Admin shut/no shut functionality on SONET/T1/T3 HOP/LOP

## Limitations on IoT Devices Running IOS-XE 16.9.1

Following are the limitations on IoT devices running IOS-XE 16.9.1:

- RS422 and RS485 works on ports from 0 to 7 only.
- RS232 synchronous mode works on ports 8-13 only.
- If any one of the ports in 0, 1, 2 and 3 is configured with type TO or any other type, then all the four ports 0, 1, 2 and 3 will be automatically configured with the same type.
- If any one of the ports in 4 and 5 is configured with type TO or any other type, then the two ports 4 and 5 will be automatically configured with the same type.

## EIGRP and RIP Not Supported

As of Cisco EPN Manager 2.2.1, EIGRP and RIP inventory and configuration support has been discontinued.

## Deprecation of Support for ONS 10.00.10, 10.01.00, 10.03.00

Support for ONS 10.00.10, 10.01.00, and 10.03.00 on Cisco NCS 2002, 2006 and 2015 devices is being deprecated. These versions will no longer be supported in the next release of Cisco EPN Manager (Cisco EPN Manager 2.2.2). Please plan your upgrades accordingly.

## Data Center Device Lifecycle Support Only

Cisco EPN Manager provides foundation lifecycle support for UCS compute systems, CSR 1000v, and Nexus series devices but does not provide data center topology.

## Cisco EPN Manager Bugs

- [Open Bugs](#)
- [Resolved Bugs](#)

## Open Bugs

Table 1 lists the open bugs in Cisco EPN Manager Release 2.2.1 according to the following criteria:

- Severity 1, 2, and high priority severity 3 open bugs
- All open customer-found bugs
- High-impact bugs that are likely to affect Cisco EPN Manager workflows.

Click the identifier link to view the impact and workaround for the bug in the [Bug Search Tool](#). Use this tool to track the status of the open bugs.

**Table 1**      **Open Bugs**

Identifier	Description
<a href="#">CSCvk05112</a>	Device reaching collection failure due to ObjectNotFoundException
<a href="#">CSCvk16013</a>	Performing provisioning action "UPDATING UI" gets stuck sometimes
<a href="#">CSCvk61041</a>	Support for Bundle-POS interfaces
<a href="#">CSCvc31087</a>	Assurance: Permission Denied error thrown for Config User on running/creating report
<a href="#">CSCvf23074</a>	Lower-order path inventory details missing which caused alarms location data failure
<a href="#">CSCvf42042</a>	Celeborn bandwidth and Card Mode support should be based on slot number and Bheem Operating mode
<a href="#">CSCvg32453</a>	STP associated interface is not listed on STP Instance ID
<a href="#">CSCvh32087</a>	Satellite (ASR9k) Power Supply Status is showing wrongly
<a href="#">CSCvh72198</a>	Alarm icon is not tagged on power unit in chassis view for NCS 2015 after unit has been unplugged
<a href="#">CSCvi31756</a>	Reload on NCS 42xx device- few alarms are not cleared
<a href="#">CSCvj07340</a>	Device removed from monitoring policies after creating new locations
<a href="#">CSCvj78665</a>	5 mins interface poller has too many unreachable devices compared to node status poller
<a href="#">CSCvk03929</a>	EPNM 2.2.x with RHEL 7.4 does not meet Cisco's recommendation of 400 Mb/s.
<a href="#">CSCvk18972</a>	NCS 2K - tomcat threads stuck with optical requests
<a href="#">CSCvk21164</a>	Link kept in red for a very long time after alarm is deleted
<a href="#">CSCvk32075</a>	Misleading logs in ncs_nb.log when EPNM stops forwarding traps to NBI Notification receiver
<a href="#">CSCvk49148</a>	Bulk delete of RPDs from EPNM fails
<a href="#">CSCvk53719</a>	NCS 540 device goes to Completed with Warning state for feature xmp-im-ethernet-oam-module i
<a href="#">CSCvk68445</a>	syslog watch dashlet does not show the syslogs
<a href="#">CSCvk68458</a>	syslog watch dashlet get stuck if selecting a week period
<a href="#">CSCvk68712</a>	"Top N Devices with Most Alarms" dashlet does not allow to select "All locations"

**Table 1**      **Open Bugs**

Identifier	Description
<a href="#">CSCvk70823</a>	Need to open a pop up about license expiration when user logs in
<a href="#">CSCvk73631</a>	Line card OIR UNI on NCS 42xx - no critical alarms seen on the service after card removal
<a href="#">CSCvk73634</a>	Device unreachable alarm is not associated to relevant services
<a href="#">CSCvk74210</a>	OAM actions on EVP-LAN does not give all endpoints
<a href="#">CSCvm04760</a>	Spelling mistake in alarm description
<a href="#">CSCvm04909</a>	NI is not created for NCS4K
<a href="#">CSCvm09261</a>	Constrains WCSDBA.IPADDRESS_BK violated when insert into IPAddress causing CF
<a href="#">CSCvm10294</a>	MPLS LSP OAM action on EVP-LAN does not give all endpoints
<a href="#">CSCvm10303</a>	CFM OAM action on EVP-LAN does not give all endpoints
<a href="#">CSCvm17729</a>	Cannot edit circuit name because Service id is double
<a href="#">CSCvm18116</a>	Availability of pluggable port type options should match configured card operation mode.
<a href="#">CSCvm19326</a>	MLT does not show ports and circuit state if fault refresh is not enabled in my preferences
<a href="#">CSCvm19404</a>	logs in /var/log are not rotated making /var dir 100% full
<a href="#">CSCvk10876</a>	EPN - NCS - static routes not saved on reload
<a href="#">CSCvk63195</a>	Install - both FCS and UBF installs are performed as root, leading to root owning files
<a href="#">CSCvm00104</a>	Install - application upgrade proceeds with bad file
<a href="#">CSCvm05820</a>	Connection Verification table missing horizontal scroll bar and columns do not re-size properly
<a href="#">CSCvk52853</a>	CLI Template is showing failed due to CliTransportCommunicatorExpectEngine exception
<a href="#">CSCvk62119</a>	UseIRB is unchecked for CSR 1000V devices

## Resolved Bugs

Table 2 lists bugs that were listed as open bugs in the Cisco EPN Manager 2.2 release notes that have been resolved or closed in Cisco EPN Manager 2.2.1.

For more information about the resolved bugs, go to the [Bug Search Tool](#).

**Table 2**      **Resolved Bugs**

Identifier	Description
<a href="#">CSCve45569</a>	Keeping alarm view as dashboard crashed the client after 12+ hours
<a href="#">CSCvh12464</a>	After restoring from EPNM 2.1.3, provisioning of ODU circuit fails
<a href="#">CSCvh90320</a>	cefcFRURemoved trap not appearing in Events page for NCS 42xx
<a href="#">CSCvi36186</a>	OCH-CC/TRAIL circuit Serviceability/Operational state stays down after circuit path change
<a href="#">CSCvi44342</a>	NCS 2000 device is stuck in synchronizing state
<a href="#">CSCvi57917</a>	Collection failure for device VSO5 and VSO6
<a href="#">CSCvi68511</a>	Mix1 and Ether1 stuck in Sync state
<a href="#">CSCvi69375</a>	API request failed \"TerminationPoint not found with tpFdn\"
<a href="#">CSCvi69590</a>	Bandwidth, max-bw and min-bw CLI generated even after commenting
<a href="#">CSCvf17655</a>	ME1200 link down correlation does not work
<a href="#">CSCvf49146</a>	Network interface traffic dashlet shows wrong data and units
<a href="#">CSCvg30840</a>	Multilayer trace is incomplete when an ODU circuit performs a protection path switch
<a href="#">CSCvg32453</a>	STP associated interface is not listed on STP Instance ID
<a href="#">CSCvg34057</a>	EntThresholdNotification alarm does not reflect the correct unit
<a href="#">CSCvg54217</a>	During device configuration, drools validation should be the part of card protection group when selecting subslot
<a href="#">CSCvg81203</a>	Actions in interface 360 - shutdown of sub-interface in XR device does not work
<a href="#">CSCvg81207</a>	Actions in interface 360 - shutdown of BDI interface does not work
<a href="#">CSCvg81340</a>	Granular inventory overrides the inventory status from Collection Failure to Completed state
<a href="#">CSCvh06874</a>	Image recommendation failing for ASR1006-X devices
<a href="#">CSCvh16299</a>	\"xmp-im-ethernet-oam-module\" feature failed because the device does not respond to dot1agCfmMep MIB
<a href="#">CSCvh68906</a>	Many tunnel alarms are not cleared after card reload
<a href="#">CSCvh72198</a>	Alarm icon is not tagged on power unit in chassis view for NCS 2015 after unit has been unplugged
<a href="#">CSCvh91084</a>	MPLS-TE tunnel goes to partial discovery due to LSP on head and one of mid-points not processed in granular inventory
<a href="#">CSCvi20695</a>	Error \"Duplicate name is not allowed. Please change the name\" when creating a LAG with the same name as a deleted LAG

**Table 2**      **Resolved Bugs**

Identifier	Description
<a href="#">CSCvi23247</a>	EPL service is down: Unable to activate the UNI
<a href="#">CSCvi23598</a>	Modify VPN in L3VPN generates wrong MTU configuration
<a href="#">CSCvi24865</a>	In inventory, T1 controllers are modeled under classname PhysicalPeP along with T1PeP
<a href="#">CSCvi25396</a>	Building floor and room are not synced in "Edit device" page and "Device Details" page
<a href="#">CSCvi25580</a>	Discovery status of the tunnel in Partial State after provisioning
<a href="#">CSCvi27633</a>	Brownfield L3VPN service is missing service MTU details
<a href="#">CSCvi31756</a>	Reload on NCS 42xx device - some alarms are not cleared
<a href="#">CSCvi34428</a>	Device does not sync alarms, device object states only change when EPNM is restarted
<a href="#">CSCvi35471</a>	Device goes into collection failure after APS group delete
<a href="#">CSCvi35909</a>	No data available is populated in the provisioning wizard after second modification of service promotion
<a href="#">CSCvi36226</a>	Incorrect ISIS link discovery
<a href="#">CSCvi37681</a>	Deletion of L3 link does not remove RSVP and MPLS-TE CLI commands from NCS 4K devices
<a href="#">CSCvi38024</a>	EPNM parses wrongly the syslog CIMC-3-EQUIPMENT_INOPERABLE
<a href="#">CSCvi41552</a>	Service serviceability status is down for an IOS-XR device although deployment was successful
<a href="#">CSCvi44260</a>	Reconciliation report action is unavailable for provisioned Access-EVPL/EPL services
<a href="#">CSCvi53378</a>	NCS 42XX: Partial collection failure due to unexpected HOP format with SONET-ACR protection
<a href="#">CSCvi55580</a>	EVPL provisioning allows creation of a service with a duplicate name
<a href="#">CSCvi55999</a>	In some cases, due to granular sync of NCS 42xx series devices for MPLS-TE features, the device will go into collection failure
<a href="#">CSCvi57133</a>	Old image is shown for Celeborn card instead of newer one under chassis view
<a href="#">CSCvi57174</a>	NCS 42XX device is in collection failure due to MplsProtocolEndpoint is null
<a href="#">CSCvi62971</a>	NCS 42XX devices are in collection failure due to below constraint violation WCSDBA.NEIGHBORINFO_BK
<a href="#">CSCvi63062</a>	Device is in collection failure after provisioning
<a href="#">CSCvi65774</a>	Neighbor state is not displayed for IPv6 neighbors under IPv6/VPNv6 address family
<a href="#">CSCvi65909</a>	License count inconsistency for ASR 9006 device count
<a href="#">CSCvi66049</a>	NCS 42XX: Constraint violation observed due to WCSDBA.C3PLPOLICYMAP_BK
<a href="#">CSCvi67649</a>	Partial collection failure issue for NCS 4K devices

**Table 2**      **Resolved Bugs**

Identifier	Description
<a href="#">CSCvi68074</a>	Java NullPointerException with IsisGranularInventoryEventHandler on NCS 4K devices
<a href="#">CSCvi68373</a>	Matlab launch script causing restart of Matlab every 10 minutes
<a href="#">CSCvi68605</a>	During consolidated CEM service provisioning via NBI, notification of success or failure is not received
<a href="#">CSCvi70153</a>	Brownfield L3VPN service went to partial discovery state when a new device was added to the service
<a href="#">CSCvi70738</a>	Config manager users cannot associate port to LAG
<a href="#">CSCvb64742</a>	Alarms window (tab) drop-down filter list is blank
<a href="#">CSCvd90037</a>	All alarms supported by PI need to be documented as supported for EPNM
<a href="#">CSCvh79535</a>	Discovery settings for TL1 SSH field are hidden in such a way that is it is not obvious that here is a extra field off screen

## Get Information About Cisco EPN Manager Bugs

Use the Bug Search tool (BST) to get the latest information about Cisco EPN Manager bugs. BST allows partners and customers to search for software bugs based on product, release, and keyword, and it aggregates key data such as bug details, product, and version.

Cisco EPN Manager bugs may be caused by defects in a device's platform or operating system. In those cases, the Cisco EPN Manager bug will be resolved when the hardware/operating system bug is resolved.

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**Step 1** Log into the Bug Search Tool.

- a. Go to <https://tools.cisco.com/bugsearch/>.
- b. At the Log In screen, enter your registered Cisco.com username and password; then, click **Log In**.



**Note** If you do not have a Cisco.com username and password, you can register for them at <http://tools.cisco.com/RPF/register/register.do>.

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**Step 2** To list all bugs for this version, click the **Select from list** hyperlink that is next to the Product field and select the product.

- a. Choose **Cloud and Systems Management > Routing and Switching Management > Cisco Evolved Programmable Network (EPN) Manager** and then select the required product version.
- b. When the results are displayed, use the filter and sort tools to find bugs according to their status, severity, how recently they were modified, if any support cases are associated with them, and so forth.

You can also search using bug IDs or keywords. For more information, click **Help** at the top right of the Bug Search page.

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## Related Documentation

For a list of all documentation available for Cisco EPN Manager 2.2.1, see the [Cisco Evolved Programmable Network Manager 2.2 Documentation Overview](#). The documentation overview also lists several Cisco Prime Infrastructure documents because the content of those documents is relevant to Cisco EPN Manager 2.2.1.

## Accessibility Features in Cisco EPN Manager 2.2.1

For a list of accessibility features in Cisco EPN Manager 2.2.1, please contact [accessibility@cisco.com](mailto:accessibility@cisco.com).

All product documents are accessible except for images, graphics and some charts. If you would like to receive the product documentation in audio format, braille, or large print, contact [accessibility@cisco.com](mailto:accessibility@cisco.com).

## Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see *What's New in Cisco Product Documentation* at: <http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>.

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