



# Cisco Evolved Programmable Network Manager 2.1.2 Release Notes

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# Functionality Added in Cisco EPN Manager 2.1.2

## Management of Cable Devices

- L2TP alarms are now generated when Cisco EPN Manager establishes or drops a connection with Cisco Converged Broadband Router-8 (cBR-8) devices.
- A new dashboard provides interactive graphs capturing various metrics for the cBR-8 routers in your network, including software versions, high availability, licensing, and cable modems.
- The Interface tab in the cBR-8 chassis view now supports additional filters (Type and Properties) for Cisco cBR-8 logical interfaces. The interfaces can be grouped based on interface types - upstream, downstream, bundle, WAN, and DPIC interfaces.
- Improved inventory sync time for Cisco cBR-8 devices.
- Utilization of Cisco cBR-8 L2TP links and L2TP neighbors is displayed in the Link Details view.
- Ability to detect Cisco switches connected to Cisco cBR-8 devices enabled with CDP.
- Ability to manage Cisco cBR-8 devices running Cisco IOS-XE version 16.6.

## Circuits/VCS

- A job is now created for “Force Delete” of a circuit/VC and its progress can be monitored in the Jobs dashboard. Once the job is completed, the circuit/VC is removed from the Cisco EPN Manager database.
- The “Force Delete” action now makes a best effort attempt to remove the service configurations from the devices as well as from the Cisco EPN Manager database.
- New EFP column in the Circuits/VCS & Network Interfaces table shows the number of EFPs that Cisco EPN Manager has provisioned. If all the EFPs are provisioned, the number of EFPs will match the number of services.
- Enhancements to the configuration details panel for circuits/VCS provide more information in an improved layout and enable you to launch the Device 360 view from the configuration details panel.
- Circuit 360 for deleted circuits can now be launched from the Deleted Circuits/VCS table.

## Device Lifecycle Management

- Ability to launch the chassis view for a device from the Interface 360 view.
- Ability to do a side-by-side comparison of the high-level information and status for selected devices, interfaces, circuits and VCS, and links.
- Internal IDs no longer appear in displayed device and interface names.

## Chassis View

Chassis view is now supported for Cisco NCS 6008 and Cisco CAT 6504-E devices.

## Device Configuration

- Ability to configure BGP with IPv6 neighbors.
- A new option to remove the configured password encryption and labels is available for the BGP neighbors.
- Device configuration changes deployed to Cisco IOS-XE devices are now deployed to both the device's start-up and running configuration.

- **SDR Support:** You can now view the VM based Secure Domain Routers (SDRs) details in the Device 360 view and on the Device Details page of Cisco NCS 6000 devices.
- You can now configure the controller modes on Cisco ASR 900 Series Route Switch Processor 2 (RSP2A) modules (A900-RSP2A-128) that are supported on Cisco ASR 920, Cisco NCS4202, and Cisco NCS 4206 devices.
- You can configure card modes 5G and 10G on the following cards and also reserve the slots with bandwidth values of 80 or 100 Gbps:
  - NCS4200-1T8S-10CS card on Cisco ASR 903, Cisco ASR 907, Cisco NCS 4200, and Cisco NCS 4000 devices.
  - NCS4200-1T16G-PS cards on NCS42xx devices

#### **Image Management**

- FPD upgrade is available for NCS 4000 IOS-XR devices.
- Upgrade analysis is now supported on all Cisco IOS-XR devices with the exception of Cisco ASR 9000 devices.

#### **Serial Services**

- Creation and provisioning of RS232 and RS485 services.

#### **Carrier Ethernet**

- Ability to automatically allocate VLAN ID for a UNI.
- Comma-separated VLAN IDs are not supported on ME1200 devices. Cisco EPN Manager creates one EVC control entry for each VLAN ID.
- When creating a new UNI and a specific port cannot be selected, there is an alert icon next to the UNI name in the Port table to show why the port cannot be selected.

#### **Traffic Engineering**

- Support for service templates for Layer 3 Link.

#### **Circuit Emulation (CEM)**

- Creation and provisioning of X.21, C37.94, and EM-Voice services.
- Support for provisioning of CEM services on 3G Eomer line cards.

#### **Bandwidth Utilization**

- Support for two different utilization values on one link (A side and Z side).

#### **QoS**

- QoS action and classification profiles can now be deleted from specific devices.

#### **Topology and Geo Map**

- Import of fibers, device locations, and managed links from a KML file.
- Export of fibers, device locations, and managed links to a KML file.
- Basic management of fibers.
- Ability to view fibers in the geo map.
- Civic address is now shown in the device and group panels in the geo map (if it is defined for the device/group).

- Ability to show/hide optical devices that serve as line amplifiers in the map.
- Groups are now included when viewing the members of a cluster in the geo map and you can drill down within the members table to see the members of the groups.
- Visualization of OSPF topology on the map for IOS-XR and XR-XE cross-platform devices.

#### **Multilayer Trace**

- Animation of the route direction for circuits with non-symmetrical paths, i.e., unidirectional circuits and bidirectional non-symmetrical circuits.
- Display of two different route directions for one service.
- Ability to switch the view to show the opposite route direction where relevant or to select specific endpoints to see the route between them.
- Ability to view partial circuits where either a device, link, or endpoint are missing.
- Legend for SRRG values.

#### **Fault Management**

- New notification pop-up for critical alarms.
- Ability to export events related to a particular alarm.

#### **Performance**

- New CEM monitoring policy.
- Additions to the Service Performance dashboard:
  - CEM tab—New dashlets that indicate the number of L-bits, N-bits, P-bits, and R-bits that have been generated and received for the selected Circuit Emulation (CEM) circuit. Enable the new CEM monitoring policy to see data in these dashlets.
  - Top N CE/L3VPN tab—A new tab that lists the circuits/VCs with the highest values for parameters such as delay and jitter.
- Additions to the Performance dashboard:
  - Optical SFPs tab—A new tab that provides details and operating metrics for the selected Small Form-Factor Pluggable (SFP) Transceiver Module interface.
- Ability to retrieve and view cyclic redundancy check (CRC) error data (after you have enabled the collection of this data).
- CEM performance monitoring has been enhanced by the support of counters for SONET pointer justification events that indicate the clock variations of the SPE payload transported over CEM. The SONET counters are supported for devices running 16.4.1 and above. To see the existing counters and the new counters, both PWE 3 and CEM monitoring policies must be enabled.
- Support for fault and optical/OTN performance monitoring for IPoDWDM line card on NCS55xx devices.
- Traffic statistics are displayed for interfaces and services on ME1200 devices.
- PCR (min/avg/max) and PMD (min/avg/max) added for NCS 2000 devices.
- Support for inner & outer VLAN configuration for Y.1564 test.

**Reports**

- Full support for generation of a report indicating the power level (Rx and Tx) for optical Small Form-Factor Pluggable (SFP) transceiver modules which are monitored and polled on every link discovered in Cisco EPN Manager.
- Removed Ethernet OAM reports and monitoring policy.
- New Carrier Ethernet performance reports:
  - Flapping: Number of flapping events that occurred in a device during a given time period.
  - Link Utilization: Interface utilization for CDP/LLDP enabled links.
- Power level reports that display the Tx and Rx power levels of the A and Z end devices and their interfaces. These reports are supported only for Optical SFP and to generate this report data you must activate the "Optical SFP" monitoring policies.
- IPSLA reports that represent the trends of IPSLA performance measurements over time, including delay, jitter, packet loss and availability. To generate this report data, you must activate the "IPSLA" monitoring policy.

**RESTCONF NBI**

- Updates to Get/Set TP to support VCOP.
- Updates to Get/Set TP to support fiber type and fiber length.
- Optical path computation support.
- LMP link creation and deletion between NCS 4000 and NCS 2000 devices.
- Support for OTDR link scan and retrieval of results as an SOR file.
- Support for MediaType Controller mode setting.
- Support for provisioning EVPL service with auto VLAN allocation.
- Support force delete option on service termination.
- Enhancements to multilayer trace retrieval to support uni-directional TE tunnels carrying VC FDN.
- Support for configuring Automatic IN Service (AINS) for cards.
- Support for additional L3 link parameters during provisioning.
- QoS support in EVPL provisioning.
- Support for provisioning ODU UNI hairpin service.

# Device/OS Support Added in Cisco EPN Manager 2.1.2

This section lists the new support provided in Cisco EPN Manager 2.1.2. 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 support” means that the device/operating system has not yet been released but Cisco EPN Manager has been tested on the Beta version.

## Metro Core—New Operating System Support

Device Model	Device OS
Cisco ONS 15454	ONS 10.6.2 ONS 10.7 (Beta support)

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

Device Model	Device OS
Cisco NCS 1001	IOS-XR 6.2.2 IOS-XR 6.3.1 (Beta support)
Cisco NCS 1002	IOS-XR 6.2.2 IOS-XR 6.3.1 (Beta support)

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

Device Model	Device OS
Cisco NCS 2002	ONS 10.6.2 ONS 10.7 (Beta support)
Cisco NCS 2006	ONS 10.6.2 ONS 10.7 (Beta support)
Cisco NCS 2015	ONS 10.6.2 ONS 10.7 (Beta support)

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

Device Model	Device OS
Cisco NCS 4009	IOS-XR 6.1.32
Cisco NCS 4016	IOS-XR 6.1.32

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

Device Model	Device OS
Cisco NCS 4201	IOS-XE 16.6.1 IOS-XE 16.6.1 Special
Cisco NCS 4202	IOS-XE 16.6.1 IOS-XE 16.6.1 Special
Cisco NCS 4206	IOS-XE 16.6.1 IOS-XE 16.6.1 Special
Cisco NCS 4216	IOS-XE 16.6.1 IOS-XE 16.6.1 Special
Cisco NCS 4216 F2B	IOS-XE 16.6.1 IOS-XE 16.6.1 Special

Support for the following cards on NCS 4200 devices:

- NCS4200-1T16G-PS
- A900-IMA8CS1Z-M ASR 900 16 port GE C-SFP + 1 port SFP+ IM with MACsec
- A900-IMA8CT1Z-M ASR 900 8 port GE RJ45 + 1 port SFP+ IM with MACsec

**Cisco NCS 5000 Network Convergence Systems—New Device Support**

Device Model	Device OS
Cisco NCS 5001	IOS-XR 6.1.3, 6.1.4
Cisco NCS 5002	IOS-XR 6.1.3, 6.1.4
Cisco NCS 5011	IOS-XR 6.1.3, 6.1.4

**Cisco NCS 5500 Network Convergence Systems—New Device and Operating System Support**

Device Model	Device OS
Cisco NCS 5501	IOS-XR 6.1.3, 6.1.4
Cisco NCS 5501-SE	IOS-XR 6.1.3, 6.1.4
Cisco NCS 5502	IOS-XR 6.1.3, 6.1.4
Cisco NCS 5502-SE	IOS-XR 6.1.3, 6.1.4
Cisco NCS 5508	IOS-XR 6.1.3, 6.1.4
Cisco NCS 5516	IOS-XR 6.1.3, 6.1.4

**Cisco NCS 6000 Network Convergence Systems—New Operating System Support**

Device Model	Device OS
Cisco NCS 6000	IOS-XR 6.1.3, 6.1.4, 6.2.2

**Cisco ASR 900 Series Aggregation Services Routers—New Device Support**

Device Model	Device OS
Cisco ASR 902U	16.6.1
Cisco ASR 903U	16.6.1

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

Device Model	Device OS
Cisco ASR 901S-4SG-F-D	IOS-XE 15.6(2)SP1,16.6.1
Cisco ASR 901S-3SG-F-D	IOS-XE 15.6(2)SP1,16.6.1
Cisco ASR 901S-2SG-F-D	IOS-XE 15.6(2)SP1,16.6.1
Cisco ASR 901S-2SG-F-AH	IOS-XE 15.6(2)SP1,16.6.1

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

Device Model	Device OS
Cisco ASR 901-6CZ-F-A	IOS-XE 15.6(2)SP1,16.6.1
Cisco ASR 901-6CZ-F-D	IOS-XE 15.6(2)SP1,16.6.1
Cisco ASR 901-6CZ-FT-D	IOS-XE 15.6(2)SP1,16.6.1
Cisco ASR901-6CZ-FT-A	IOS-XE 15.6(2)SP1,16.6.1

**Cisco ASR 920 Series Aggregation Services Routers—New Device Support**

Device Model	Device OS
Cisco ASR 920U-12SZ-IM	IOS-XE 16.6.1

**Cisco ASR 1000 Aggregation Services Routers—New Device Support**

Device Model	Device OS
Cisco ASR 1001-HX	IOS-XE 16.3.2



Device Model	Device OS
Cisco ASR 1002-HX	IOS-XE 16.3.2
Cisco ASR 1006-X	IOS-XE 16.3.2

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

Device Model	Device OS
Cisco ASR 9010	IOS-XR 6.1.3, 6.1.4, 6.2.2
Cisco ASR 9904	IOS-XR 6.1.3, 6.1.4, 6.2.2
Cisco ASR 9006	IOS-XR 6.1.3, 6.1.4, 6.2.2
Cisco ASR 9001	IOS-XR 6.1.3, 6.1.4, 6.2.2
Cisco ASR 9910	IOS-XR 6.1.3, 6.1.4, 6.2.2
Cisco ASR 9912	IOS-XR 6.1.3, 6.1.4, 6.2.2
Cisco ASR 9922	IOS-XR 6.1.3, 6.1.4, 6.2.2
Cisco XRv9K (Beta Support)	IOS-XR 6.1.3, 6.1.4, 6.2.2

### Cisco Carrier Routing System—New Operating System Support

Device Model	Device OS
Cisco CRS-1 16-Slot Single-Shelf System	IOS-XR 6.1.2, 6.1.3, 6.1.4
Cisco CRS-1 8-Slot Single-Shelf System	IOS-XR 6.1.2, 6.1.3, 6.1.4
Cisco CRS-1 4-Slot Single-Shelf System	IOS-XR 6.1.2, 6.1.3, 6.1.4
Cisco CRS-1 16-Slot Line Card Chassis	IOS-XR 6.1.2, 6.1.3, 6.1.4

### New Line Card Support

- Support for 3G LC EOMER (NCS4200-3GMS) on ASR920/NCS4206/NCS4202 devices running IOS-XE 16.6.1
- Support for IPoDWDM line card (NC55-6X200-DWDM) on NCS55xx devices

## Installation/Upgrade Paths

The following table lists the installation/upgrade paths for Cisco EPN Manager 2.1.2.

Note that:

- *PP* = *Point Patch*
- Cisco EPN Manager 2.x.x = Cisco EPN Manager 2.x *Maintenance Pack x*. For example, Cisco EPN Manager 2.1.2 = Cisco EPN Manager 2.1 *Maintenance Pack 2*
- Cisco EPN Manager 2.1.0.x = Cisco EPN Manager 2.1 installed with *point patch x*. For example, Cisco EPN Manager 2.1.0.1 = Cisco EPN Manager 2.1 with PP1.

If you have this deployment:	Perform these steps to install Cisco EPN Manager 2.1.2
Cisco EPN Manager is not installed (fresh installation)	<ol style="list-style-type: none"> <li>1. Install Cisco EPN Manager 2.1.</li> <li>2. Install Cisco EPN Manager 2.1.2.</li> </ol>
Cisco EPN Manager 1.2.x or 2.0.x	<ol style="list-style-type: none"> <li>1. Upgrade to Cisco EPN Manager 2.1</li> <li>2. Install Cisco EPN Manager 2.1.2</li> </ol>
Cisco EPN Manager 2.1	Install Cisco EPN Manager 2.1.2
Cisco EPN Manager 2.1.0.x	<ol style="list-style-type: none"> <li>1. Go to the <a href="#">Software Download site on Cisco.com</a> and check that you have the latest point patch for Cisco EPN Manager 2.1 installed.</li> <li>2. If you do not have the latest point patch installed, install it before installing Cisco EPN Manager 2.1.2. Installation instructions can be found in the readme file supplied with the patch file.</li> <li>3. Install Cisco EPN Manager 2.1.2.</li> </ol>
Cisco EPN Manager 2.1.1	Install Cisco EPN Manager 2.1.2
Cisco EPN Manager 2.1.1.x	<ol style="list-style-type: none"> <li>1. Go to the <a href="#">Software Download site on Cisco.com</a> and check that you have the latest point patch for Cisco EPN Manager 2.1.1 installed.</li> <li>2. If you do not have the latest point patch installed, install it before installing Cisco EPN Manager 2.1.2. Installation instructions can be found in the readme file supplied with the patch file.</li> <li>3. Install Cisco EPN Manager 2.1.2.</li> </ol>

## Important Notes

- [Unidirectional TE Tunnel Bandwidth Change Frequency Requirement](#)
- [TLS 1.2 Required for Secured Channel Communication for HTTPS and TLS](#)
- [Reconciliation Report Limitations](#)
- [Limitations on ME 1200 Devices](#)
- [Data Migration Issues](#)

### Unidirectional TE Tunnel Bandwidth Change Frequency Requirement

When creating and provisioning a unidirectional TE tunnel and using the automatic bandwidth allocation option (Enable Auto Bandwidth checkbox is checked), the Bandwidth Change Frequency should be set to 3600 seconds to avoid performance issues.

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

As of Cisco EPN Manager 2.1, 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

- **Manual sync required**—Configuration changes to ME 1200 devices are not automatically discovered by Cisco EPN Manager. After making a change, you must manually sync the device. To do this, select the required device(s) in the Network Devices table and click **Sync**.
- QoS profiles are not supported for service provisioning on ME1200 devices.

### Data Migration Issues

After installing Cisco EPN Manager 2.1.2 on top of Cisco EPN Manager 2.1:

- User-defined QoS profiles for CE services created in Cisco EPN Manager 2.1 cannot be used in Cisco EPN Manager 2.1.2.

# User Documentation Changes

## Installation Guide

From Cisco EPN Manager 2.1.2 onwards we have one combined installation guide for the main release and all of its maintenance packs. See [Installation Guide for Cisco Evolved Programmable Network Manager 2.1 and Maintenance Packs \(2.1.x\)](#).

Note that the Cisco Evolved Programmable Network Manager 2.1 Installation Guide and the Cisco Evolved Programmable Network Manager 2.1.1 Installation Guide will no longer be available as individual guides on Cisco.com.

## Cisco EPN Manager Bugs

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

### Open Bugs

[Table 1](#) lists the open bugs in Cisco EPN Manager Release 2.1.2 according to the following criteria:

- Severity 1, 2, and high priority severity 3 open bugs
- All open customer-found bugs
- Other bugs considered to be high impact bugs

Click the identifier 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="#">CSCvc49568</a>	Cisco Prime Infrastructure and Evolved Programmable Network Manager SQL Injection Vulnerability
<a href="#">CSCvc49574</a>	Cisco Prime Infrastructure and Evolved Programmable Network Mngr Reflected Cross-Site Scripting Vuln
<a href="#">CSCvf32903</a>	[Security] Files from PI have 777 access, allowing every one to do read, write, execute
<a href="#">CSCvf36235</a>	Wrong CLI command generated for Ethernet Subinterface Config
<a href="#">CSCvf44733</a>	Application restore failed on scale setup
<a href="#">CSCvf47304</a>	TE tunnel LSP plugins consume more memory ~2GB
<a href="#">CSCvf48096</a>	Oracle security patches missing
<a href="#">CSCvf54193</a>	Scale: Link flap and link utilization reports failed with Failed to generate report error
<a href="#">CSCvf62370</a>	Bulk import of devices and add of single device fails
<a href="#">CSCvb53324</a>	Granular Inventory IOS-XR: LSP DOWN scenarios are not working
<a href="#">CSCvc50922</a>	Environmental temperature report does not represent relevant values

Table 1 Open Bugs

Identifier	Description
<a href="#">CSCvd13056</a>	EPNM tries to connect to various external websites
<a href="#">CSCvd71782</a>	DSCP classification dashlet shows out of range value in Rate column
<a href="#">CSCvd85066</a>	Creation of Ethernet SubInterface does not populate data for all the columns in protocolendpoint table
<a href="#">CSCve45569</a>	Keeping alarm view as dashboard crashed the client after 12+ hours
<a href="#">CSCve92753</a>	Deleting the devices left the corresponding alarms/events stale
<a href="#">CSCve93521</a>	VLAN modification does not happen in device for CE services
<a href="#">CSCve93634</a>	Collection failure for ONS15454 \"unexpected error\"
<a href="#">CSCvf03142</a>	Same name in xconn/bridge domain for different type of circuit leads to ConstraintViolationException
<a href="#">CSCvf15969</a>	After card out and in, the t1 cem service serviceability is down, on device service is up
<a href="#">CSCvf17655</a>	ME 1200 link down correlation not working
<a href="#">CSCvf17700</a>	User defined filters are not seen on remote site after failover.
<a href="#">CSCvf21559</a>	OCH-trail serviceability remains DOWN after OCHCC creation
<a href="#">CSCvf22522</a>	CFM configuration issue with NCS4K device: OAM Ping/tracroute fails
<a href="#">CSCvf23074</a>	Lower-order path inventory details missing which caused alarms location data failure
<a href="#">CSCvf23199</a>	MTU mismatch when creating EVPLAN between ASR 9000 and ASR 900 devices
<a href="#">CSCvf23360</a>	SFP data is not shown even if there is SFP
<a href="#">CSCvf32160</a>	Tunnel discovery is shown as Partial for a long time (nearly 4 hours) with two NCS 4000 midpoints
<a href="#">CSCvf32562</a>	Tunnel in Partial discovery state after performing fault scenario
<a href="#">CSCvf42042</a>	Celeborn bandwidth and Card Mode support should be based on slot number and Bheem Operating mode
<a href="#">CSCvf42283</a>	Static route configuration from EPNM fails
<a href="#">CSCvf49708</a>	NE device deletion does not modify accordingly the configuration archive job
<a href="#">CSCvf55839</a>	NCS42XX, ASR90X device goes to full sync due to CA even when \"Inventory triggered\" unchecked.
<a href="#">CSCvf56264</a>	GigabitEthernet interface data missing connection to physical connector on ME1200
<a href="#">CSCvf58707</a>	CFM remote maintenance-points not available in device after provisioning service
<a href="#">CSCvf58734</a>	Device inventory collection fails due to stale entry of rfs.TdmCemProtectionGrpFlowpoint#117842404
<a href="#">CSCvf59000</a>	CEM-Vcop service creation fails when dejitter is provided on 16.6.1vs image
<a href="#">CSCvf59174</a>	ODU UNI creation fails because service with same tunnel ID already exists

**Table 1**      *Open Bugs*

<b>Identifier</b>	<b>Description</b>
<a href="#">CSCvf59184</a>	ODU UNI in Partial state due to reactive sync on ROUTING-MPLS_TE-5-LSP_PATHCHANGE
<a href="#">CSCvf59196</a>	CEM/BiDirectional Tunnel API - Issue with MLT response, some missing/incorrect data
<a href="#">CSCvf59888</a>	Collection failure in device
<a href="#">CSCvf60143</a>	EPNM mandating VLAN ID field for Untagged service
<a href="#">CSCvf60386</a>	NCS 4000 packet alarm issues
<a href="#">CSCvf60432</a>	OpticalIUniRFS not created if historical version of OpticalLmpSettingsRFS is present
<a href="#">CSCvf60632</a>	Device inventory failed due to WCSDBA.MPLSTETUNNELSETTINGS_BK.
<a href="#">CSCvf61552</a>	Reactive inventory isn't causing collection of LAG related data
<a href="#">CSCvf62236</a>	CBR8 new device profile \"CableBroadbandRouter\" doesn't include Chassis View meta data
<a href="#">CSCvf62872</a>	Wrong ethernetPW status
<a href="#">CSCuw80244</a>	The \"Filter\" Icon in Alarms and Events does not function as expected.
<a href="#">CSCve63452</a>	'Bottom n Interface Availability' dashlet availability status bar
<a href="#">CSCve83650</a>	Parse error while opening the EPNM OTDR Setting window
<a href="#">CSCvf22206</a>	Unable to enter Layer 3 VPN Customer BGP AS number higher than 32767
<a href="#">CSCvf47878</a>	In link 360 graphs section - port availability should be called link availability

## Resolved Bugs

Table 2 lists bugs that appeared as open bugs in the Cisco EPN Manager 2.1.1 release notes that have been resolved in Cisco EPN Manager 2.1.2.

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

**Table 2** Resolved Bugs

Identifier	Description
<a href="#">CSCve55563</a>	Imported Images not listing in Software repository
<a href="#">CSCve45622</a>	Attaching QoS Policy to ASR9K sub interface which is part of L3VPN will fail
<a href="#">CSCve53603</a>	Modify fails with LazyInitializationException in the log
<a href="#">CSCve61241</a>	isisDatabaseOverload trap is not generating events with correct severity
<a href="#">CSCve46882</a>	Importing QoS policy with "set mpls topmost 0" will be imported with -1 value
<a href="#">CSCve56348</a>	Server does not show T1 controllers 0/1/0 and 0/1/7 for NCS 4202 during circuit creation
<a href="#">CSCve46597</a>	ASR903 Collection failure due to feature LogicalBridge
<a href="#">CSCve51015</a>	Message if not source nor destination is correct
<a href="#">CSCve49269</a>	Deploying Action profile with override option fails when class-map in use
<a href="#">CSCvd36191</a>	360 view issue: Multilayer trace (MLT) is not working as expected for Bi-directional tunnel on UI
<a href="#">CSCve49265</a>	Deploying Classification profile with override option fails when class-map in use
<a href="#">CSCve47346</a>	Dashlet Interface Availability shows all interfaces in 0-25% range
<a href="#">CSCve32808</a>	Long running queries on MtosTerminationPoint
<a href="#">CSCvd10199</a>	Modifying multiple devices civic location when there is profile causes removal of all info
<a href="#">CSCvd45377</a>	Bundle-Ether interface configured with EPNM not selectable for device during CE UNI service provisioning
<a href="#">CSCvd28785</a>	Inconsistent timestamps in the GUI
<a href="#">CSCve46894</a>	setting DSCP in a policer for IOS-XR devices has the "exceed-action set dscp" twice
<a href="#">CSCvc96165</a>	Not able to promote an EPNL when pseudowire-class is not defined
<a href="#">CSCvc67419</a>	cbr8 inventory collection taking hours
<a href="#">CSCve61351</a>	After creating CEM service, status is admin down and after some time it changes to oper down
<a href="#">CSCve61353</a>	On receiving controller up/down, existing service goes to admin down and then changes to down or up
<a href="#">CSCvd18743</a>	Template Based Config Multiple or single device retrieval missing details
<a href="#">CSCve53335</a>	Not able to create EVPL service because unnecessary VLAN allocation popup keep coming up

Table 2 Resolved Bugs

Identifier	Description
<a href="#">CSCve47072</a>	Services are showing down on EPNM after card reload
<a href="#">CSCve46670</a>	Connectivity between remote tunnel to central office is missing on Z side
<a href="#">CSCve06825</a>	Node stuck in Partial Collection failure
<a href="#">CSCvd63303</a>	Overlay map is not showing on UI after creating Bi-directional tunnel between end points
<a href="#">CSCvd03041</a>	Cannot promote service on the same device
<a href="#">CSCvd91155</a>	Create EPL - > setting performance probes - > multiple profiles issue
<a href="#">CSCvd92327</a>	Need device name for Wired Module Detail Report
<a href="#">CSCve22426</a>	CEM MLT API response does not contain all the info related to CEM/PW/TE layers
<a href="#">CSCva54469</a>	Scheduled 1 Day Optical Performance Reports Run Results have no data
<a href="#">CSCve37226</a>	Latitude and Longitude blank update failed
<a href="#">CSCve38848</a>	STS48 CEM modification fails
<a href="#">CSCve44631</a>	Duplicate policy raises new set of TCA's and does not clear after deleting the policy
<a href="#">CSCvd08179</a>	Civic location - add ability to set only one of the fields Building, Floor & Room
<a href="#">CSCvc56408</a>	Overlay map is not showing for A end to Z end for unidirectional tunnel interface
<a href="#">CSCve55330</a>	Modifying OAM PM profile from 3 to 2 is causing configuration leftovers
<a href="#">CSCve57151</a>	CFM incompletely configured if no performance measurement probe is configured
<a href="#">CSCve61222</a>	Under BGP "neighbor 32.81.94.2 update-source TenGigabitEthernet0/10/8" is not required
<a href="#">CSCve63117</a>	Wrong endpoints showing in 360 degree view/overlay
<a href="#">CSCve63424</a>	NBI Restconf: ETree Amend operation failing with HibernateOptimisticLockingFailureException
<a href="#">CSCve61165</a>	Error in retrieving tunnel information for Bidirectional TE for modified EPL service
<a href="#">CSCve49718</a>	Power level: time period selection window is missing

## 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**.




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**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 2.1.2, see the [Cisco Evolved Programmable Network Manager 2.1.2 Documentation Overview](#). The documentation overview also lists several Cisco Prime Infrastructure documents because the content of those documents is relevant to Cisco EPN Manager 2.1.2.

## Accessibility Features in Cisco EPN Manager 2.1.2

For a list of accessibility features in Cisco EPN Manager 2.1.2, 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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