



Cisco Evolved Programmable Network Manager 2.2 Release Notes

First Published: April 2, 2018

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Functionality Added in Cisco EPN Manager 2.2

This section lists the new features/functionality delivered in Cisco EPN Manager 2.2.



Note

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

System Changes

- Cisco EPN Manager now uses Red Hat Enterprise Linux version 7.4 operating system.

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:
 - NCS 540 (N540-24Z8Q2C-M)
 - ASR 9906
 - NCS 520 (N520-4G4Z-A)
 - Catalyst 6500 VSS
 - Chassis (WS-C6509-E)
 - Line cards (WS-X6704-10GE, WS-X6908-10G, WS-X6148E-GE-45AT)
 - ASR 99xx (A99-12X100GE-CM)
 - ASR 9000v2 Satellite
 - A9K-RSP880/MOD200-TR of device ASR 9006
 - A9K-8T/4-L line card of ASR 9006
 - A900-PWR900-D2 on NCS 4216

Device Configuration

- Information associated with the redundancy status of Cisco Catalyst 6500 Series devices with dual and quad-supervisor Virtual Switching System (VSS) is provided in the Device 360 and Device Details view.
- Ability to view card protection parameters and configure the Admin Mode and Revert time values for the protection group.
- Ability to view the connection status of a BGP neighbor device participating in a BGP routing process.
- Ability to view the part numbers of all modules associated with a given device in the Device Details view.
- BETA: 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.

Configuration Archive

- Support for device configuration collection via SFTP.

Image Management

- SWIM is now supported for ASR 903U, ASR 902U, ASR 920U, and NCS 540 devices.
- Ability to define interface module delay for ISSU activation.

Management of Cable Devices

- Alarm dashboard is now available to show active alarms for cBR-8 devices.
- Grouping of CMTS alarms on cBR-8 devices into categories for easier identification. For example, CMTS-Subscriber and CMTS-System.
- Device connectivity failure status is shown in all dashlets in the Cable dashboard and the dashboard can be refreshed on demand.
- Cable executive dashboard has been revamped to allow users to slice and dice data based on location groups, user defined locations and managed cBR-8 devices.
- Display of modem count by vendor and capability in the dashboard.
- Power supply status of active power modules is shown in the chassis view for cBR-8 devices (Performance tab).
- CPU and memory utilization graphs are shown for active SUP cards in the chassis view for cBR-8 devices (Performance tab).
- RPD 360 view is now available in the geo map, providing information about the RPD inventory and DEPI session.
- Ability to visualize the topology between cBR-8 devices and RPDs along with all the connected intermediate switches. Introduction of Overlay (L2TP) and Underlay (Physical Link) for the cable network. Support is for IPv4 only.
- DEPI (Downstream External-PHY Interface) session information is now available per RPD connected to a selected cBR-8 device.
- Ability to view a summary of the status of all cable modems including DOCSIS capabilities and vendor information across the network and in a selected cBR-8 group.
- BETA: Integration with SmartPHY 1.1.14 for adding cBR-8 devices, RPD service management fields and RPD bulk import using a CSV file.
- BETA: Ability to view bandwidth utilization for cable controllers, Mac domains and fiber nodes.

Carrier Ethernet

- Support for Ethernet hairpin switching on NCS42xx devices
- Local connect configuration now uses the new L2VPN-based CLI instead of the connect-based CLI.
- Support for untagged service frames between ME1200 UNIs in an EVC.
- Discovery of EVPN VPWS (single homing) services.
- Support for Carrier Ethernet provisioning on segment routing.
- BETA: Ability to resynchronize a Carrier Ethernet service.
- BETA: Support for device UNI MTU value of up to 9644 on NCS 4000 devices running IOS-XR 6.1.42).
- BETA: Validation of CE provisioning on LAG port for NCS 4000 devices running IOS-XR 6.1.42.

L3VPN

- VRF names are now shown for L3VPN services names instead of VPN IDs.
- Ability to configure OSPF for PE-CE routing between devices in an L3VPN service.

CEM

- Support for configuration of T1 and T3 controllers with framed SAToP mode.
- BETA: Support for SDH on NCS 42xx and ASR 9xx devices running IOS-XE 16.6.1 or 16.7.1.

Serial

- Service reconciliation support for IOT-related services.

Optical

- Ability to manually create managed links between NCS1002 trunk ports and NCS 1001 A/D on passive units.
- Discovery of LMP links between the client ports of NCS 2000 transponders (NCS2K-200G-CK-C, NCS2K-400G-XP) and the grey interfaces of ASR 9000 or NCS 5000 devices.
- Ability to specify node and link constraints when provisioning ODU circuits on NCS2K-400G-XP line cards.
- Discovery of LMP links between NCS 2000 and NCS 5000 devices using colored interfaces.
- Support for OCH-Trail UNI circuit provisioning on a network that uses NCS 1002 as transponder devices in conjunction with an NCS 2000 ROADM network.
- Ability to provision an OCH-CC circuit carried by an existing OCH-Trail with the same A and Z end-points, but in reverse order.
- Ability to show the overlay of a Media Channel Group on the topology map.
- Discovery of OCH Trail circuits between an IOS-XR device (ASR 9000, NCS 5000) and an NCS 2000 device, connected via manual or LMP link.
- Ability to filter the endpoints of a WSON or SSON circuit by specifying the optical side in the circuit provisioning wizard.
- Automatic discovery of the OTS links between NCS 1001 devices connected via OSC.
- Ability to configure the amplifier and PSM modules of NCS 1001 devices, including Optics, OTS and OTS-OCH controllers, using the Chassis View.
- ODU circuits protection are now shown in the Configuration section of the chassis view.
- Ability to create a WSON circuit with circuit diversity to ensure that the new circuit is not sharing the name risk (link) or resources (links and nodes) of an existing circuit.
- The Circuits/VCs table has two additional columns: Wavelength and Restoration Status.
- The Multilayer Trace of an OCH-CC or MHC-CC circuit displays the router IP address if there is an LMP link between an NCS 2000 and an IOS-XR router (ASR 9000 or NCS 5000).

Bandwidth Utilization

- The optical channel utilization is now calculated using the actual channel capacity rather than assuming 96 channels of total capacity.

Topology and Geo Map

- Devices from multiple device groups can now be displayed on the topology maps (previously only devices from one group could be displayed).

- Ability to search for a device by the value in a user-defined field.
- Device domain name is no longer displayed in the maps as part of the device name.
- Admin users can now save map display selections as global preferences which will be applied automatically for all new users and which can be loaded by any users on demand.
- Ability to view OTDR scan results in the context of the geo map in order to pinpoint the location of the fiber issues.
- Ability to replace the default name of a link with a user-defined name that will be displayed in all link tables and in the Link 360 view.
- BETA: Ability to create, modify and delete pools of SRRG types and SRRG values.

Fault Management

- An alarm is generated when a device loses connectivity with the NTP server.

Performance

- BER test enhancements. Ability to run BER tests:
 - For CEM circuits on EOMER line cards.
 - In a 1+1 electrical protection setup.
 - In a UPSR setup.
- Ability to navigate from the Top N dashboard to the service dashboard and also to open the circuit 360 view.
- Ability to run the Y.1564 performance test on ME 1200 devices.
- Interface 360 performance enhancements:
 - Ability to launch the performance dashboard from the Interface 360 view for all interface types.
 - Ability to view performance graphs on NCS 540 interfaces and to run the Y.1731 on-demand test on circuits traversing NCS 540 devices.
 - Ability to view FEC statistics on the optical layer in the Interface 360 view and in the circuit realtime performance monitor.
 - Additional performance graphs are available - error, discard and drop graphs.
- Enhancements to OTDR scan results, including showing ORL and fiber end in the results.
- Delay and jitter statistics are available for ME 1200 devices running IOS-XE 3.21.
- Time frame is now selectable in the performance dashboard.

Reports

- Ability to generate non-zero drop reports for QoS.

RESTCONF NBI

- Provisioning of SSON Services (MCHGroup, MCH NC, MCHCC, MCHTrail).
- CFS, VC and MLT retrieval for SSON services.
- CFS retrieval to contain user configured explicit path for OCHTrail UNI and ODU UNI services.
- Service action for manual revert, upgrade restore and re-route of optical services.
- VC retrieval to indicate resynch state of EVC services.
- MTU Evolution for NCS 4000 V6.1.42 devices for E-Line services.

- Hairpin and local connect support for E-Line services.
- CEM provisioning over SDH controllers.
- CE provisioning support with auto-negotiation.
- VC retrieval to indicate SDH types.
- SRRG pool retrieval.
- SRRG retrieval filtered based on participating node and participating link.
- Termination point retrieval based on layer rate filter.

Device/OS Support Added in Cisco EPN Manager 2.2

This section lists the new support provided in Cisco EPN Manager 2.2. 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” means that the device/operating system has not yet been released but Cisco EPN Manager has been tested on the Beta version.

Cisco NCS 540 Network Convergence Systems—New Device Support

Device Model	Device OS
Cisco NCS 540	IOS-XR 6.3.2 (BETA)

Cisco NCS 1000 Network Convergence Systems—New Operating System Support

Device Model	Device OS
Cisco NCS 1001	IOS-XR 6.3.2
Cisco NCS 1002	IOS-XR 6.3.2

Cisco NCS 4000 Network Convergence Systems—New Operating System Support

Device Model	Device OS
Cisco NCS 4009	IOS-XR 6.1.37 (BETA); 6.1.42 (BETA)
Cisco NCS 4016	IOS-XR 6.1.37 (BETA); 6.1.42 (BETA)

Cisco NCS 4200 Network Convergence Systems—New Operating System Support

Device Model	Device OS
Cisco NCS 4201	IOS-XE 16.6.4vS, 16.6.5vS, 16.8.1 (BETA)
Cisco NCS 4202	IOS-XE 16.6.4vS, 16.6.5vS, 16.8.1 (BETA)

Device Model	Device OS
Cisco NCS 4206	IOS-XE 16.6.4vS, 16.6.5vS, 16.8.1 (BETA)
Cisco NCS 4216	IOS-XE 16.6.4vS, 16.6.5vS, 16.8.1 (BETA)
Cisco NCS 4216 F2B	IOS-XE 16.6.4vS, 16.6.5vS, 16.8.1 (BETA)

Cisco NCS 5500 Network Convergence Systems—New Operating System Support

Device Model	Device OS
Cisco NCS 5501	IOS-XR 6.3.2
Cisco NCS 5501-SE	IOS-XR 6.3.2
Cisco NCS 5502	IOS-XR 6.3.2
Cisco NCS 5502-SE	IOS-XR 6.3.2
Cisco NCS 5508	IOS-XR 6.3.2
Cisco NCS 5516	IOS-XR 6.3.2

Cisco NCS 6000 Network Convergence Systems—New Operating System Support

Device Model	Device OS
Cisco NCS 6000	IOS-XR 6.1.4, 6.2.2, 6.3.2

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

Device Model	Device OS
Cisco ASR 920	IOS-XE 3.17.1
Cisco ASR 920 24SZIM	
Cisco ASR 920 24TZM	
Cisco ASR 920 24SZM	
Cisco ASR 920-12SZ-IM	
Cisco ASR920 4S ZD	
Cisco ASR920 8S Z0A	
Cisco ASR920 12 CZA	
Cisco ASR920 12 CZ D	
Cisco ASR920 4S ZA	
Cisco ASR920 10S ZPD	

Cisco ASR 9000 Aggregation Services Routers—New Device and Operating System Support

Device Model	Device OS
Cisco ASR 9906	IOS-XR 6.3.2 (BETA)
Cisco ASR 9010	IOS-XR 6.3.2

Device Model	Device OS
Cisco ASR 9904	IOS-XR 6.3.2
Cisco ASR 9006	IOS-XR 6.3.2
Cisco ASR 9001	IOS-XR 6.3.2
Cisco ASR 9910	IOS-XR 6.3.2
Cisco ASR 9912	IOS-XR 6.3.2
Cisco ASR 9922	IOS-XR 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)

Cisco ME 1200 Ethernet Access Devices—New Device and Operating System Support

Device Model	Device OS
Cisco ME 1200-4S-A	ME 1200 OS 15.6-3.SN1, 15.6-4.SN1, 15.6-5.SN1

Cisco ME 3600 Ethernet Access Switches—New Operating System Support

Device Model	Device OS
Cisco ME 3600X-24FS-M Switch	IOS-XE 15.6(2)SP
Cisco ME 3600X-24TS-M Switch	IOS-XE 15.6(2)SP
Cisco ME 3600X-24CX-M Switch	IOS-XE 15.6(2)SP
Cisco ME 3600X-24CXE-M Switch	IOS-XE 15.6(2)SP

Cisco ME 3800 Ethernet Access Switch Routers—New Operating System Support

Device Model	Device OS
Cisco ME 3800X-24FS-M Switch Router	IOS-XE 15.6(2)SP

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

Device Model	Device OS
Cisco cBR-8 Converged Broadband Routers	IOS-XE 16.7, 16.7.1, 16.7.1a, 16.7.2

Installation/Upgrade Paths

The following table lists the valid paths for installing/upgrading to Cisco EPN Manager 2.2 from previous versions.

Current Cisco EPN Manager Version	Install the following to upgrade to Cisco EPN Manager 2.2
Cisco EPN Manager 1.2.x, 2.0.x	Cisco EPN Manager 2.1 > 2.1.3 > 2.2
Cisco EPN Manager 2.1	Cisco EPN Manager 2.1.3 > 2.2
Cisco EPN Manager 2.1.0.x	Cisco EPN Manager 2.1.0.x (latest point patch) > 2.1.3 > 2.2
Cisco EPN Manager 2.1.1	Cisco EPN Manager 2.1.3 > 2.2
Cisco EPN Manager 2.1.1.x	Cisco EPN Manager 2.1.1.x (latest point patch) > 2.1.3 > 2.2
Cisco EPN Manager 2.1.2 or 2.1.2.x	Cisco EPN Manager 2.1.2.x (latest point patch) > 2.2
Cisco EPN Manager 2.1.3	Cisco EPN Manager 2.2
Cisco EPN Manager 2.1.3.x	Cisco EPN Manager 2.1.3.x (latest point patch) > 2.2

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 on the [Software Download site on Cisco.com](#).

Important Notes

- [TLS 1.2 Required for Secured Channel Communication for HTTPS and TLS](#)
- [ISIS Overlay Limitation](#)
- [Reconciliation Report Limitations](#)
- [Limitations on ME 1200 Devices](#)
- [Limitations on NCS 4200 Devices Running IOS-XE 16.8.1](#)
- [Data Migration Issues](#)
- [Data Center Device Lifecycle Support Only](#)

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.

ISIS Overlay Limitation

The ISIS overlay shows links for an individual ISIS process on the ISIS network.

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

Data Migration Issues

After upgrading to Cisco EPN Manager 2.2:

- User-defined QoS profiles for CE services created in Cisco EPN Manager 2.1 cannot be used.
- Active threshold crossing alarms (TCA) for temperature will remain active and will not be cleared. Please clear these alarms manually.

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 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
CSCve45569	Keeping alarm view as dashboard crashed the client after 12+ hours
CSCvh12464	After restoring from EPNM 2.1.3, provisioning of ODU circuit fails
CSCvh69845	EPNM compatibility issue and browser hanging on IE
CSCvh90320	cefcFRURemoved trap not appearing in Events page for NCS 42xx
CSCvi36186	OCH-CC/TRAIL circuit Serviceability/Operational state stays down after circuit path change
CSCvi44342	NCS 2000 device is stuck in synchronizing state
CSCvi57917	Collection failure for device VSO5 and VSO6
CSCvi68511	Mix1 and Ether1 stuck in Sync state
CSCvi68520	"entSensor Notification"- raised on uni shut not cleared
CSCvi69375	API request failed "TerminationPoint not found with tpFdn"
CSCvi69590	Bandwidth, max-bw and min-bw CLI generated even after commenting
CSCvi70629	Application pause (complete slowdown) on upgrade from EPNM 2.1.3.3 to EPNM 2.2
CSCvf17655	ME1200 link down correlation does not work
CSCvf23074	Lower-order path inventory details are missing, causing alarm location data failure
CSCvf42042	Celeborn bandwidth and Card Mode support should be based on slot number and Bheem Operating mode
CSCvf49146	Network interface traffic dashlet shows wrong data and units
CSCvg30840	Multilayer trace is incomplete when an ODU circuit performs a protection path switch
CSCvg32453	STP associated interface is not listed on STP Instance ID

Table 1 **Open Bugs**

Identifier	Description
CSCvg34057	EntThresholdNotification alarm does not reflect the correct unit
CSCvg54217	During device configuration, drools validation should be the part of card protection group when selecting subslot
CSCvg81203	Actions in interface 360 - shutdown of sub-interface in XR device does not work
CSCvg81207	Actions in interface 360 - shutdown of BDI interface does not work
CSCvg81340	Granular inventory overrides the inventory status from Collection Failure to Completed state
CSCvh06874	Image recommendation failing for ASR1006-X devices
CSCvh16299	"\xmp-im-ethernet-oam-module\" feature failed because the device does not respond to dot1agCfmMep MIB
CSCvh68906	Many tunnel alarms are not cleared after card reload
CSCvh72198	Alarm icon is not tagged on power unit in chassis view for NCS 2015 after unit has been unplugged
CSCvh91084	MPLS-TE tunnel goes to partial discovery due to LSP on head and one of mid-points not processed in granular inventory
CSCvi20695	Error "Duplicate name is not allowed. Please change the name" when creating a LAG with the same name as a deleted LAG
CSCvi23247	EPL service is down: Unable to activate the UNI
CSCvi23598	Modify VPN in L3VPN generates wrong MTU configuration
CSCvi24865	In inventory, T1 controllers are modeled under classname PhysicalPeP along with T1PeP
CSCvi25396	Building floor and room are not synced in "Edit device" page and "Device Details" page
CSCvi25580	Discovery status of the tunnel in Partial State after provisioning
CSCvi27633	Brownfield L3VPN service is missing service MTU details
CSCvi31756	Reload on NCS 42xx device - some alarms are not cleared
CSCvi34428	Device does not sync alarms, device object states only change when EPNM is restarted
CSCvi35471	Device goes into collection failure after APS group delete
CSCvi35909	No data available is populated in the provisioning wizard after second modification of service promotion
CSCvi36226	Incorrect ISIS link discovery
CSCvi37681	Deletion of L3 link does not remove RSVP and MPLS-TE CLI commands from NCS 4K devices
CSCvi38024	EPNM parses wrongly the syslog CIMC-3-EQUIPMENT_INOPERABLE
CSCvi41552	Service serviceability status is down for an IOS-XR device although deployment was successful
CSCvi44260	Reconciliation report action is unavailable for provisioned Access-EVPL/EPL services

Table 1 **Open Bugs**

Identifier	Description
CSCvi53378	NCS 42XX: Partial collection failure due to unexpected HOP format with SONET-ACR protection
CSCvi55580	EVPL provisioning allows creation of a service with a duplicate name
CSCvi55999	In some cases, due to granular sync of NCS 42xx series devices for MPLS-TE features, the device will go into collection failure
CSCvi57133	Old image is shown for Celeborn card instead of newer one under chassis view
CSCvi57174	NCS 42XX device is in collection failure due to MplsProtocolEndpoint is null
CSCvi58459	Client memory increases due to geomap memory leak issue
CSCvi62971	NCS 42XX devices are in collection failure due to below constraint violation WCSDBA.NEIGHBORINFO_BK
CSCvi63062	Device is in collection failure after provisioning
CSCvi65774	Neighbor state is not displayed for IPv6 neighbors under IPv6/VPNv6 address family
CSCvi65909	License count inconsistency for ASR 9006 device count
CSCvi66049	NCS 42XX: Constraint violation observed due to WCSDBA.C3PLPOLICYMAP_BK
CSCvi67649	Partial collection failure issue for NCS 4K devices
CSCvi68074	Java NullPointerException with IsisGranularInventoryEventHandler on NCS 4K devices
CSCvi68373	Matlab launch script causing restart of Matlab every 10 minutes
CSCvi68605	During consolidated CEM service provisioning via NBI, notification of success or failure is not received
CSCvi70153	Brownfield L3VPN service went to partial discovery state when a new device was added to the service
CSCvi70738	Config manager users cannot associate port to LAG
CSCvb64742	Alarms window (tab) drop-down filter list is blank
CSCvd90037	All alarms supported by PI need to be documented as supported for EPNM
CSCvh79535	Discovery settings for TL1 SSH field are hidden in such a way that it is not obvious that here is a extra field off screen

Resolved Bugs

Table 2 lists bugs that have been resolved since the last release. Specifically, it lists bugs that were listed as open bugs in the Cisco EPN Manager 2.1.3 release notes that have been resolved in Cisco EPN Manager 2.2.

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

Table 2 **Resolved Bugs**

Identifier	Description
CSCvg19102	MplsLspAttribute Info is deleted from EPNM for XE devices post inventory sync
CSCvg76238	Nodes with OCHNC circuits get into Partial Collection Failure in EPNM (SW Version 10.70)
CSCvg79155	ME1200: Consolidated API - Issue reusing unidirectional tunnel
CSCvg81030	TE-tunnel modification for any attribute removes auto-bandwidth and few other attributes
CSCvc90695	Auto-Bandwidth values are modeled incorrectly for Unidirectional Tunnel
CSCvd24231	Not all \"ethernet cfm/evc\" commands are removed from RO devices
CSCvd85066	Create of Ethernet SubInterface is not populating data for all the columns in protocolendpoint table
CSCvf03142	Same name in xconn/bridge domain for different type of circuit leads to ConstraintViolationException
CSCvf16436	EPN - reports - last boot time is not accurate
CSCvf17264	Get Partial Collection Failure error when modeling ASR907/903 with DWDM card
CSCvf21559	OCH-Trail serviceability remains DOWN after OCHCC creation
CSCvf49645	Modify vrf ipsla failed while changing the attributes in IPSLA page in L3VPN
CSCvf85554	Tunnel details page shows FRR and related parameters as disabled though they're enabled
CSCvg27486	Port summary mismatch - Up and Down port count is more when compared to Device and Mib response
CSCvg41045	OAM issue: Need to configure probe in receiver mode on remote side (Z side) for one way delay
CSCvg49899	Backup hub provision exception in IOS XE device
CSCvg54865	Interface MTU change directly on device does not auto synch in EPNM
CSCvg56374	Cable policies do not get activated properly
CSCvg56431	L3VPN - trying to provision L3VPN in some cases gives NOT Started with no explanation
CSCvg62076	EPNM-BNG Statistics-Special Character in the Command output
CSCvg70289	Upgrade setup with path Derecho - >MP1- >Derecho-MP3 , menu has shuffle incorrectly for CEM & Physical

Table 2 **Resolved Bugs**

Identifier	Description
CSCvg70713	Adding a new endpoint to a L3VPN - the new defined sub interface is set to shutdown
CSCvg70750	UCS_POWER_SUPPLY_FAILURE and FAN Failure should cause expedite
CSCvg72220	Module list in device 360 is missing some modules
CSCvg72599	Modifying [saved] brownfield L3VPN then all endpoint are moved to shutdown
CSCvg72604	Modifying [saved] brownfield L3VPN then BDI interface is removed and new BDI is configured
CSCvg75512	Alarms/Events export from EPNM(2.1.2.2) failing for Japanese and Korean language
CSCvg76433	ASR903 NE sync failure on EPNM if ptp boundary clock configured
CSCvg79396	Labeling convention of full mesh and address family all section should be based on address family
CSCvg79878	Delete device removes relevant UNI from list, but UNI with same name cannot be created
CSCvg81270	EVPL/EVPLAN deletesite/delete not generating cfm negate\"no service evc...\" for 920/902 IOSXE
CSCvg82904	CSRI: Environmental Temperature Report Issues
CSCvg83144	CSRI: Interface Utilization not in synch with Topology
CSCvg83547	Consolidated API - Unnecessary tunnels are created
CSCvg85126	Ether channel list is not showing any data
CSCvg86813	Remove the VT-2 option from HOP mode dropdown box in MBC UI as it is not supported in device
CSCvg88461	Consolidated API - Tunnel discovery in missing state when source and destination has same tunnel ID
CSCvg89376	Post CE provisioning invokes update for all resource pools
CSCvg90911	Full GCs on scale setup post MP3 upgrade - nicePostInitTask is not complete or completed with errors
CSCvg91155	After ESTV alarm is auto-cleared - the link remains RED with alarm icon
CSCvg92317	Remove the STS-192C option from HOP mode dropdown box in MBC UI as it is not supported in device
CSCvg92742	NCS2k: Device type showing \"Third Party Device\" and throw an exceptions for 10.6.1. version
CSCvg92786	Collection failure due to missing association on STM64 VFAC after node disconnect
CSCvg93161	Wired Detailed Device Inventory export fails with NullPointerException
CSCvg90802	NME ports on ASR920 are not optical sfp ports
CSCvg51104	Multiple entries under modules view

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.
- Go to <https://tools.cisco.com/bugsearch/>.
 - 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>.

- 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.
- Choose **Cloud and Systems Management > Routing and Switching Management > Cisco Evolved Programmable Network (EPN) Manager** and then select the required product version.
 - 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.

Related Documentation

For a list of all documentation available for Cisco EPN Manager 2.2, 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.

Accessibility Features in Cisco EPN Manager 2.2

For a list of accessibility features in Cisco EPN Manager 2.2, please contact 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.

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>.

Subscribe to *What's New in Cisco Product Documentation*, which lists all new and revised Cisco technical documentation, as an RSS feed and deliver content directly to your desktop using a reader application. The RSS feeds are a free service.

This document is to be used in conjunction with the documents listed in the “[Related Documentation](#)” section.

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