

Cisco Evolved Programmable Network Manager 3.0.0 Release Notes

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Introduction

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Functionality Added in Cisco EPN Manager 3.0.0

This section lists the new features/functionality delivered in Cisco EPN Manager 3.0.0.



Note MTOSI support for EPNM will be deprecated from Cisco EPN Manager 3.0.0 onwards, please use RESTconf APIs for API integration.



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

GUI - General

Ability to add, configure LDAP servers and integrate Cisco EPN Manager with LDAP servers.

Device Lifecycle Management

Ability to warn users about license non-compliance and expiration

Device Configuration

- Ability to view software image details such as family type, version and size for NCS5000 series devices on IOS-XE.
- Ability to view storage recommendation details and verification state for NCS 5000 series devices.
- Ability to view list of ports and all the applicable type of every ports based on the device
- Ability to validate IOS-XR & IOS-XE CE services name using EPNM for Point-to-point and Multi-point services.
- Inventory Enhancements
 - Ability to disable Archive Configuration after Inventory Sync
 - Ability to specify a VRF name for file transfer
- Ability to recover devices in "Completed with Warning" state using the Retry job and by performing the recommended actions suggested by EPNM.
- Basic inventory and fault management options provided for generic devices not officially supported by EPNM.
- Managing the continuous syncing of devices due to event inflow, using the Burst Event rate flow controller.

Circuit Emulation

- Support for SDH with SNCP protection
- Support for SDH with MSP 1+1 protection
- SDH support on NCS42xx/ASR9xx with IOS-XE devices
- Ability to select the Framed SATOP frame type while provisioning E1/E3 services.

Circuits/VCS - General

- Ability to choose Deploy Later, and Schedule Deployment before you save or schedule a provisioning order.
- Enhancements
 - Service MTU promotion: MTU range for service UNI and Service MTU is enhanced to 64 to 65535
 - Ability to view partial multilayer details (with an error message and appropriate solution) in the multilayer trace view
 - Ability to set the time interval at which the tables in topology page on Circuit/VCS will be refreshed.

Carrier Ethernet

- Ability to Resynchronize services that are related to top-down service discovery.
- Ability to edit the service and update or change the A or Z point after a service has been provisioned.

- Ability to configure PW ID for Point-to-point services.
- Discovery and configuration of segment routing services.
 - Support for discovery of Segment Routing traffic engineering(SR-TE) policies through inventory.
 - Support for Promotion and reconciliation of CE services with SR-TE preferred path.
- Support for CFM promotion and reconciliation for point-to-point and multipoint services.
- Support for Y1731 service promotion for point-to-point and multipoint services.

L3VPN

- Ability to set authentication type while configuring OSPFv3 for PE-CE routing between devices in an L3VPN service.
- Ability to configure Hot Standby Router Protocol (HSRP) configuration for L3VPN
- Support for IPv6 6vPE in the Circuit 360 and extended details view.
- Ability to view HSRP details in the circuit 360/extended details and overlay views.

Serial

- Ability to enable or disable interfaces for C37.94, 4 Wire E&M, and Serial variants.
- Full support for RS422 service type.
- Full support for synchronous mode of RS232 for the Raw Socket service.
- ASynchronous RS-232 support for ASR9XX/U devices on IOS-XE
- E2E signaling for Asynch in IOS-XE devices

MPLS-TE

- Ability to integrate Cisco EPN Manager with a WAE server to calculate the explicit path for an MPLS-TE tunnel.
- Ability to select any existing BFD template by the user.
- Support for service promotion of Unidirectional and Bidirectional tunnels.
- Ability to force delete an MPLS TE tunnels and Layer 3 link for the selected services in the circuit VCs.
- Reconciliation support for L3 Link (MPLS + LLDP/CDP link) Granular Inventory.

Optical

- CFP2-DCO support for Cisco ASR 9000, NCS 55A2 devices.
- NCS2000 2-way integration with CNP for NCS2000 provisioning.
- Cisco NCS 2000 device support for R11.0
 - TNCS2 and TNCS2-O support with chassis-view images

- OTDR Enhancements: Fiber loss and Reflection visualization on Geo Map
- 400G-XP new payload support
- TL1 templates for NE defaults
- New pluggable support
- NCS2000, OMS link management.
- NCS 4000 device support for Fabric Chassis (Chassis View) and Rack view.
- NCS 2000 ODU circuit end to end circuit provisioning and discovery with NCS 4000 - with Protection.
- Support for 400G-XP OTNXC card mode configuration options.
- Ability to enable client ports to be put in service as part of the OCHCC creation process.
- Alarm Display to include a node column rather than just showing node name within the Failure Source field.
- Ability to configure the Cisco NCS 2000 devices to limit the machine (EMS) account with single session.

Cable Technologies

- cBR-8 Service group configuration details and Fiber Node utilization dashboard for cBR-8 devices
- Ability to show RPD and CBR-8 devices in a specific geographical location based on user defined location coordinates and radius information provided.
- Ability to discover RPDs connected from 3rd party RPD aggregator switches leveraging LLDP
- Ability to view cable modems under the serving RPD and configured Fiber Nodes
- Support of various RPD MIBs viz. DOCS-RPHY-CTRL, DOCS-RPHY-PTP, DOCS-RPHY-MIB
- Certification provided for cBR-8 devices running IOS-XE versions 16.9.1 and 16.10.1
- Ability to view new contextual RPD information under RPD360, viz. RPD firmware version, RPD Service group details, Software Version, Cable Modems etc.
- Ability to configure RPD and CBR-8 software compatibility matrix from EPNM
- Architectural changes to make the cable solution scalable to handle large number of RPDs.
- Architectural changes to improve cBR-8 device inventory sync time to display cBR-8 device interfaces in Chassis View.
- OUI and Vendor mapping for cable modems including an option to customize such mappings.
- Enhancements made to the filtering mechanism in the Interfaces Performance Dashboard.
- Support of Kobol-R and 250G Supervisory line card for cBR-8 devices.
- Ability to configure RPD polling information, by providing polling time interval and device IP addresses.
- Integration with Smart PHY 2.0.2 and 2.1.2 versions.

Topology and Geo Map

- Ability to configure, per user, different refresh rates for alarms and topology tables.
- Ability to view and perform actions on planned Circuits/VCS
- Import and Export KML was enhanced to include manual devices, networks and links
- Ability to filter devices according to geographic location, civic address, device location and radius.
- Ability to view auto discovered OMS link when two ROADM devices are connected by means of sequence of OTS links.
- Service options to support Segment Routing: Ability to receive free text route names from technology providers
- OTDR usability enhancements: Fiber loss and Reflection visualization on Geo Map on NCS2k devices

User Management Feature

- Ability to use LDAP for user authentication and access privileges, without any external 3rd party integration.
- Ability to support up to 50 custom user groups.
- Ability to Allow an admin to rename custom user groups.
- Ability to force a password change when a new user is created by administrative user.
- Immediate logging of security relevant user activity.

Fault Management

- In NCS55A2 and IOS XR 6.5.2, OIR is supported only in version 6.6.1 and above.

RESTCONF NBI

- Supporting API Access to predefined and customized user groups
- CE Service Provisioning - Support user specified PW-ID
- API for retrieve, create, update, delete Link Aggregation Group (LAG)
- Support new query parameters in TL retrieval API to allow optional retrieval of performance metrics(power tx/rx, span direction/loss) and fiber related attributes for Optical Topological Link
- Support error codes in restconf API error responses.
- OCH/MCH CC and Trail Circuit Retrieval – support Validation mode and zone attributes
- Set TP API Support for changing of M13 framing on T3 and SONET STS-1 controllers
- Support for accepting source/destination device as input in PW/CFM Ping & Traceroute API
- Support for tunnel information in EVPL service retrieval API
- Service promotion support for FlexLSP and Unidirectional Tunnel provisioning API
- Support for specifying BFD templates in Flex LSP and Unidirectional tunnel provisioning API

- Support for retrieving user configured explicit paths in OCH CC service retrieval
- Support retrieval of Segment Routing Policy as a Virtual Connection
- Support IPv6 6vPE, Authentication for OSPF and OSPFv3 in L3VPN Service Provisioning and Retrieval
- Support Hot Standby Router Protocol (HSRP) in L3VPN Service Provisioning and Retrieval
- SDH Protection (MSP 1+1) Support (Cisco IOS-XE 16.7.1 or above)
- Removed 1522 limit on MTU in CE service provisioning
- Increased the limit for number of simultaneous provisioning requested accepted
- Once a service has been provisioned, it should be possible to edit the service and update or change the A or Z point (ex. EPL/EVPL service)
- Scheduling feature for non-optical services (Only schedule supported. Save is not supported)
- Support E1 and E3 SATOP for framed modes on NCS42xx/ASR9xx with SDH
- Support SDH with SNCP (SDH version of UPSR)

MTOSI NBI

- Support error codes in mtosi API fault responses for specific API - Explicit Path, Protection Profile, TL, TP and SNC API

Device/OS Support Added in Cisco EPN Manager 3.0.0

This section lists the new support provided in Cisco EPN Manager 3.0.0. 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.



Note ASR 9901 SWIM/CA is not supported in Cisco EPN Manager 3.0.0

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

Device Model	Device OS	Device OS
Cisco ASR 9001		IOS-XR 6.5.2
Cisco ASR 9006		IOS-XR 6.5.2
Cisco ASR 9010		IOS-XR 6.5.2
Cisco ASR 9904		IOS-XR 6.5.2
Cisco ASR 9906		IOS-XR 6.5.2

Device Model	Device OS	Device OS
Cisco ASR 9910		IOS-XR 6.5.2
Cisco ASR 9912		IOS-XR 6.5.2
Cisco ASR 9922		IOS-XR 6.5.2
Cisco ASR 9901		IOS-XR 6.6.1 (BETA)

Cisco Network Convergence Systems 5500 Series—New Operating System Support

Device Model	Device OS	Device OS
Cisco NCS 5501		IOS-XR 6.5.2, 6.6.1
Cisco NCS 5501-SE		IOS-XR 6.5.2, 6.6.1
Cisco NCS 5502		IOS-XR 6.5.2, 6.6.1
Cisco NCS 5502-SE		IOS-XR 6.5.2, 6.6.1
Cisco NCS 5508		IOS-XR 6.5.2, 6.6.1
Cisco NCS 5516		IOS-XR 6.5.2, 6.6.1
Cisco NCS 5504		IOS-XR 6.5.2, 6.6.1
Cisco NCS 55A2-MOD-S		IOS-XR 6.5.2, 6.6.1
Cisco NCS 55A2-MOD-HD-S		IOS-XR 6.5.2, 6.6.1
Cisco NCS 55A1-36H-SE-S		IOS-XR 6.3.2 (BETA)

Cisco Network Convergence Systems 4000 Series—New Operating System Support

Device Model	Device OS	Device OS
Cisco NCS 4009		IOS-XR 6.5.25 (BETA)
Cisco NCS 4016		IOS-XR 6.5.25 (BETA)

Cisco Network Convergence Systems 540 Series Routers—New Operating System Support

Device Model	Device OS	Device OS
Cisco NCS 540 24Z8Q2C M Router		IOS-XR 6.6.1

Cisco Network Convergence Systems 6000 Series Routers—New Operating System Support

Device Model	Device OS	Device OS
Cisco NCS 6000	IOS-XR 6.4.1, stand alone	IOS-XR 6.4.1, stand alone
		IOS-XR 6.4.1, with single chassis multi SDR
		IOS-XR 6.4.1 (BETA), with multi chassis multi SDR

Cisco Network Convergence Systems 560 Series Routers—New Operating System Support

Device Model	Device OS
Cisco NCS 560 Enhanced Router	IOS-XR 6.6.1 (BETA)

Cisco ASR 900U & ASR 920U Series Aggregation Services Routers—New Operating System Support

Device Model	Device OS
Cisco ASR 902U Router	IOS-XE 16.10.1
Cisco ASR 903U Router	IOS-XE 16.10.1
Cisco ASR 920U-12SZ-IM Router	IOS-XE 16.10.1

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

Device Model	Device OS
Cisco ASR 920 Router	IOS-XE 16.10.1
Cisco ASR 920 24SZ IM Router	IOS-XE 16.10.1
Cisco ASR 920 24TZ M Router	IOS-XE 16.10.1
Cisco ASR 920 24SZ M Router	IOS-XE 16.10.1
Cisco ASR 920 12SZ IM Router	IOS-XE 16.10.1
Cisco ASR 920 4S ZD Router	IOS-XE 16.10.1
Cisco ASR 920 8S Z0A Router	IOS-XE 16.10.1
Cisco ASR 920 12 CZA Router	IOS-XE 16.10.1
Cisco ASR 920 12 CZ D Router	IOS-XE 16.10.1
Cisco ASR 920 4S ZA Router	IOS-XE 16.10.1
Cisco ASR 920 10S ZPD Router	IOS-XE 16.10.1
Cisco ASR 920 20SZ M Router	IOS-XE 16.10.1 IOS-XE 16.9.1a

Cisco NCS 4200 Network Convergence Systems—New Operating System Support

Device Model	Device OS
Cisco NCS 4201	IOS-XE 16.10.1
Cisco NCS 4202	IOS-XE 16.10.1
Cisco NCS 4206	IOS-XE 16.10.1
Cisco NCS 4216	IOS-XE 16.10.1
Cisco NCS 4216 F2B	IOS-XE 16.10.1

Data Center Switches—New Operating System Support

Device Model	Device OS
Cisco Nexus 9508 Switch	NX-OS 7.0(3)I2(2d)

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

Device Model	Device OS
Cisco NCS 1001	IOS-XR 6.5.2
Cisco NCS 1002	IOS-XR 6.5.2

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

Device Model	Device OS
Cisco NCS 2000	Release 11.0

Cisco ONS 15454 Series Multiservice Provisioning Platforms—New Operating System Support

Device Model	Device OS
Cisco ONS 15454	Release 11.0

Cisco NCS 520 Series Carrier Ethernet Access Devices—New Operating System Support

Device Model	Device OS
Cisco NCS 520-X-4G4Z-A	IOS-XE 16.8.1 IOS-XE 16.9.1a (BETA)
Cisco NCS 520-X-4G4Z-D	IOS-XE 16.9.1a (BETA)
Cisco NCS 520-X-20G4Z-A	IOS-XE 16.9.1a (BETA)
Cisco NCS 520-X-20G4Z-D	IOS-XE 16.9.1a (BETA)

Cisco ME 1200 Series Carrier Ethernet Access Devices—New Operating System Support

Device Model	Device OS
Cisco ME 1200-4S-A	IOS 15.6-6.SN IOS 15.6-7.SN (BETA)

Cisco Industrial Ethernet 1000 Series Switches—New Operating System Support

Device Model	Device OS
Cisco IE 1000-8P2S-LM Industrial Ethernet Switch	IOS 1.6 (BETA)

Cisco Carrier Routing System—New Operating System Support

Device Model	Device OS
Cisco CRS-1 16-Slot Line Card Chassis	IOS-XR 5.3.4 (BETA)

Support for Generic Cisco Devices

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-MIB 1.0.8802.1.1.2.1.3.7(lldpLocPortTable)
1.0.8802.1.1.2.1.4.2(lldpRemManAddrTable)
1.0.8802.1.1.2.1.4.1(lldpRemTable)
- CISCO-ENTITY-FRU-CONTROL-MIB
1.3.6.1.4.1.9.9.117.1.1.2(cefcFRUPowerStatusTable)
1.3.6.1.4.1.9.9.117.1.4.1(cefcFanTrayStatusTable)

Support for Generic Third Party Devices

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(lldpLocPortTable)
1.0.8802.1.1.2.1.4.2(lldpRemManAddrTable)
1.0.8802.1.1.2.1.4.1(lldpRemTable)

Supported Installation/Upgrade Paths

The following table lists the supported paths for installing/upgrading to Cisco EPN Manager 3.0.0 from previous versions.

Current Cisco EPN Manager Version	Upgrade Path to Cisco EPN Manager 3.0
Cisco EPN Manager 2.2	Cisco EPN Manager 2.2.0.4 (latest point patch) > 3.0
Cisco EPN Manager 2.2.1	Cisco EPN Manager 2.2.1.3 (latest point patch) > 3.0

In-place upgrade to Cisco EPN Manager 3.0 is possible from the following versions:

Current Cisco EPN Manager Version	Upgrade Path to Cisco EPN Manager 3.0
Cisco EPN Manager 2.2.1	Cisco EPN Manager 2.2.1.3 (latest point patch) > 3.0

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

Upgrade Issues

After upgrading to Cisco EPN Manager 3.0.0:

- 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 Mixed AUG configurations are not supported in EPNM.



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

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. Wherever 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 NCS540 and NCS5500 devices

- NCS540 device series does not support Bidirectional tunnel functionality.
- NCS540 device series does not support Fault-OAM, Wrap-Protection and BFD.
- NCS5500 device series does not support Fault-OAM, Wrap-Protection and BFD.

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.

Use CLI Templates for Configuring VRF Based BGP Address Families on XR

Use CLI Templates for configuring any BGP VRF Address families on XR, as there are known issues while configuring the same via Config UI.

Use CLI Templates for Configuring Static Routes

Use CLI Templates for configuring any static routes, as there are known issues while configuring the same via Config UI.

Use ASR 900 series PTP Configuration Composite Templates for Configuring PTP Commands

On ASR 920 devices with software version 16.9.1, IEEE 1588-2008 BC/MC license is required to execute the 1588 PTP commands.

Configuration and Inventory Not Supported for PTP Templates

The behavior of modeling the configurations pushed through PTP templates may not work as expected because the model may not be in place for all the configurations pushed through PTP templates. Configuration/Inventory is not supported for these configurations.

Circuit Emulation

Promotion and Reconciliation functionality not supported for services over SDH controller.

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

No Support for ONS 10.00.10, 10.01.00, 10.03.00 ONS 10.00.10, 10.01.00, and 10.03.00 are no longer supported on Cisco NCS 2002, 2006 and 2015 devices.

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

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- [Resolved Bugs, on page 16](#)
- [Get Information about Cisco EPN Manager Bugs, on page 17](#)

Open Bugs

The table below lists the open bugs in Cisco EPN Manager Release 3.0.0 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
CSCvf37999	North bound server down alarms shows PI not EPNM
CSCvo47025	EPNM - Configuration tab to be renamed as Logical View.
CSCvo45163	Etesian-I81: Y1564-issues with Packet size 1518 and 9216 bytes
CSCvo09417	Failed Bits-Interface configuration on device shown as successful in EPNM
CSCvo20327	From MBC , delete of recovered clock configured on SDH AU-4 is failing
CSCvo47025	From MBC , delete of recovered clock configured on SDH AU-4 is failing
CSCvo44109	Deletion of Network mask under the BGP Address family is failing
CSCvo43250	physical controllers HOP details not getting cleared after deleting aps
CSCvo39920	EPNM - Inventory collection failure - Unable to process MPLS LDP commands
CSCvo33280	IPSLA issue in Modify L3VPN
CSCvo28401	Bits-Interface and Bits Frequency configs not populated in MBC after GI
CSCvo07683	CEM-For SDH STM4/STM16 services HOP's which are configured with mode vc4 are listing, deploy failing
CSCvn82402	Vertical scale validation- getL2TransportIntSettings collection time issue for XE
CSCvm76771	[SVSPE-570]-Alarm tab is showing show facility-condition alarms for celebourn cards
CSCvg32453	STP associated interface is not listed on STP Instance ID
CSCvn40056	Alarms, interfaces and interfaces status are not listing for EM and C3794 Module in chassis view.
CSCvn72360	C3794ProtocolEndpoint is not getting created due to C3794 controller naming issue.
CSCvo32160	Two devices had the same engine id in EPNM, causing SNMP connectivity failures
CSCvo26613	Imported location details get lost in few hours

Identifier	Description
CSCvo47135	Epnm-IoT: Edit and delete options for serial interfaces are not functional
CSCvo31309	GI is not working for CFM CCM check interval when changed through CLI in the upgrade server
CSCvo25902	EPNM deletes the default route that doesn't appear in EPNM GUI while adding new routes to XE devices
CSCvo32160	Two devices had the same engine id in EPNM, causing SNMP connectivity failures
CSCvo43250	physical controllers HOP details not getting cleared after deleting aps
CSCvo49149	for non-root admin user, on trying to edit any hop in HOP page, drools execution going in loop
CSCvo50405	For non-root user, drop down Rate box is not working fine on physical controller.
CSCvo50695	Cannot create BITS-Interface in non-root admin user. End up getting "Server 500" error.
CSCvo50715	Cannot add Bits Clock Settings in non-root admin user, Stray popup message appears.
CSCvo57597	cem t3 service with sonet endpoints and with acr/dcr clock, goes partial after modify clock
CSCvo26613	Imported location details get lost in few hours
CSCvo48453	CEM-For STS-1 service creation HOP pre-configured with 'mode unframed' is not listing
CSCvo18777	Layer 3 link - BGP neighbor is not negated in the delete flow for XR devices
CSCvo16854	Layer 3 link - ISIS force delete issues
CSCvo16541	Layer 3 link - Force delete failed for BGP enabled Layer3 link
CSCvo16527	Layer3 Link - Force delete failed for Port based OSPF enabled Layer3 link
CSCvo35600	ASR9K completed with warning issue with L3VPN
CSCvo13224	L3Link - Force delete failed for Vlan based OSPF enabled Layer3 link on XR devices
CSCvo15330	clear isis,ldp,bgp,link_down,pw,cefc(power/module) somtm followed by a raise (end result is correct)
CSCvo58529	Schedule archive for database configuration doesn't work NCS4K

Identifier	Description
CSCvn72041	Bad FAN and RAID alarms seen after EPNM 2.2.1 installation on UCS C220 M5SX
CSCvn72674	I80A - Data cleanup job stuck in running post EPNM startup
CSCvq98114	EVENT_BURST_DETECTED event not generated for the same device, after first detection

Resolved Bugs

The table below lists bugs that were listed as open bugs in the Cisco EPN Manager 2.2.1 release notes that have been resolved in Cisco EPN Manager 3.0.0.

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

Table 2: Resolved Bugs

Identifier	Description
CSCvk05112	Device reaching collection failure due to ObjectNotFoundException
CSCvk16013	Performing provisioning action "UPDATING UI" gets stuck sometimes
CSCvk61041	Support for Bundle-POS interfaces
CSCvc31087	Assurance: Permission Denied error thrown for Config User on running/creating report
CSCvh32087	Satellite (ASR9k) Power Supply Status is showing wrongly
CSCvj07340	Device removed from monitoring policies after creating new locations
CSCvk18972	NCS 2K - tomcat threads stuck with optical requests
CSCvk21164	Link kept in red for a very long time after alarm is deleted
CSCvk49148	Bulk delete of RPDs from EPNM fails
CSCvk53719	NCS 540 device goes to Completed with Warning state for feature xmp-im-ethernet-oam-module i
CSCvk68445	syslog watch dashlet does not show the syslogs
CSCvk68458	syslog watch dashlet get stuck if selecting a week period
CSCvk74210	OAM actions on EVP-LAN does not give all endpoints
CSCvm04760	Spelling mistake in alarm description

Identifier	Description
CSCvm04909	NI is not created for NCS4K
CSCvm10294	MPLS LSP OAM action on EVP-LAN does not give all endpoints
CSCvm10303	CFM OAM action on EVP-LAN does not give all endpoints
CSCvm17729	Cannot edit circuit name because Service id is double
CSCvm19326	MLT does not show ports and circuit state if fault refresh is not enabled in my preferences
CSCvm19404	logs in /var/log are not rotated making /var dir 100% full
CSCvk63195	Install - both FCS and UBF installs are performed as root, leading to root owning files
CSCvm00104	Install - application upgrade proceeds with bad file
CSCvm05820	Connection Verification table missing horizontal scroll bar and columns do not re-size properly
CSCvk62119	UseIRB is unchecked for CSR 1000V devices

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.

Procedure

-
- 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 3.0.0, see the [Cisco Evolved Programmable Network Manager 3.0 Documentation Overview](#). The documentation overview also lists several Cisco Prime Infrastructure documents because the content of those documents is relevant to Cisco EPN Manager 3.0.0.

Accessibility Features in Cisco EPN Manager 3.0.0

For a list of accessibility features in Cisco EPN Manager 3.0.0, please contact accessibility@cisco.com.

All product documents are accessible. 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](#)

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