

# Cisco Evolved Programmable Network Manager 5.0.0 Release Notes

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## Introduction

This document contains the following information about Cisco Evolved Programmable Network Manager 5.0:

- [Functionality Added in Cisco EPN Manager 5.0, on page 1](#)
- [Device/OS Support Added in Cisco EPN Manager 5.0, on page 4](#)
- [Supported Installation/Upgrade Paths, on page 5](#)
- [Important Notes, on page 5](#)
- [Cisco EPN Manager Bugs, on page 7](#)
- [Related Documentation, on page 12](#)
- [Accessibility Features in Cisco EPN Manager 5.0, on page 12](#)
- [Obtaining Documentation and Submitting a Service Request, on page 13](#)

## Functionality Added in Cisco EPN Manager 5.0

This section lists the new features/functionality delivered in Cisco EPN Manager 5.0. Cisco EPN Manager 5.0 is a major release.



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**Note** MTOSI support for EPNM has been deprecated from Cisco EPN Manager 3.1 onwards, please use RESTconf NB APIs for integration.

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**Note** IoT feature and device support has been deprecated from Cisco EPN Manager 4.1 onwards and removed from Cisco EPN Manager 5.0 onwards.

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**Note** Cable devices and functionality has been deprecated from Cisco EPN Manager 4.0.1 onwards and removed from Cisco EPN Manager 5.0 onwards.

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

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**Note** NBI Credential user group is deprecated starting Cisco EPN Manager 4.0 release.

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**Note** G8032 is not supported and has been deprecated starting Cisco EPN Manager 4.0 release.

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### GUI - General

- Support up to 8000 devices depending on the specific network scenario
- Topology- Support up to 1500 devices in a group/map
- EPN-M Create Circuit Optical shall provide immediate feedback for simple resource conflicts
- Remove Cable access device support and feature support (will no longer be available via EPNM)
- Accessibility Certification - Barrier-Free program Ph.5 - blind users
- Ability to maintain maps, filters and layouts customization across upgrades, in the topology related tables.
- Improve Log file management
- EPNM user activity to be logged to logfile

### Device Configuration

- Reports related improvements to support 8K device scale
- Switch Inventory Job Enhancement - Group & Device Based Job Scheduling
- ISSU: SSO mode : give a warning to user that we will configure device to SSO mode if the activation checked with ISSU
- EPNM Topology support for 25G interfaces ( links to be displayed in Map-View)
- EPNM support for ISSU for ASR903

### Circuit Emulation

- STS1e support on NCS4200-48T3E3-CE & NCS4200-3GMS CEM with XE v17.3.1 with and without card protection
- Bandwidth CLI alignment in transport settings for CEM pseudowire services

### Carrier Ethernet

- Support for CFM using ICC format to support ME1200 interoperate with other devices

- Support for EVPN (ELAN) Discovery and Overlay over XE and XR device types

### **License**

- EPNM to start with smart licensing by default

### **Device Lifecycle Management**

- Support for bulk device import with csv file using REST NB API
- REST NB API to export devices and retrieve Credential profiles are removed

### **Segment Routing**

- Visualize association between EVPN(ELAN) and SR/SRTE (XR-only in 5.0)
- ECMP support for SR Policy overlay
- FlexAlgo support for Segment Routing TE provisioning, Discovery and Overlay
- TI-LFA backup path visualization

### **MPLS TE**

- FlexLSP: EPN-M shall support the auto-bw keyword on both XE and XR devices

### **Service Discovery**

- Introducing maximum number of 500 endpoints limit when discovering large L3VPN. Services with more than 500 endpoints will not be visible in EPNM UI/NBI.

### **Optical**

- NBI Compatibility with WAE 7.2.2 and 7.2.1

### **Fault Management**

- Event Flood and Throttle control, Health Monitor

### **RESTCONF NBI**

- STS1e support on 48-port T3/E3 CEM with and without protection
- Bulk promotion support for CEM services
- auto-bw keyword support for Flex LSP for both XE and XR devices
- Enhancement to LSP ping/Traceroute support
- Provisioning support for ODU services
- Support editing of existing service to update or change the A or Z point for CEM service

- Support CFM using ICC format to support ME1200 interoperate with other devices
- Enhancement to retrieve LMP based on termination point details

## Device/OS Support Added in Cisco EPN Manager 5.0

This section lists the new support provided in Cisco EPN Manager 5.0. 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.

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

| Device Model   | Device OS      |
|----------------|----------------|
| Cisco NCS 2000 | Release 12.0.1 |

### Cisco Network Convergence Systems 2006 Series—Beta Support

| Device Model   | Device OS       |
|----------------|-----------------|
| Cisco NCS 2006 | Release 11.1.12 |

### Cisco Network Convergence Systems 2015 Series—Beta Support

| Device Model   | Device OS       |
|----------------|-----------------|
| Cisco NCS 2015 | Release 11.1.12 |

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

| Device Model         | Device OS    |
|----------------------|--------------|
| Cisco NCS 540 Router | IOS-XR 7.1.2 |

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

| Device Model         | Device OS                     |
|----------------------|-------------------------------|
| Cisco ASR 900 Router | IOS-XE 16.12.4, IOS-XE 17.3.1 |

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

| Device Model   | Device OS                     |
|----------------|-------------------------------|
| Cisco NCS 4200 | IOS-XE 16.12.4, IOS-XE 17.3.1 |

## Supported Installation/Upgrade Paths

The following table lists the valid paths for installing/upgrading to Cisco EPN Manager 5.0 from previous versions.

| Current Cisco EPN Manager Version | Upgrade Path to Cisco EPN Manager 5.0   |
|-----------------------------------|---|
| Cisco EPN Manager 4.0.3           | <b>Cisco EPN Manager 4.0.3 &gt; 5.0</b> |
| Cisco EPN Manager 4.0.2           | <b>Cisco EPN Manager 4.0.2 &gt; 5.0</b> |
| Cisco EPN Manager 4.1             | <b>Cisco EPN Manager 4.1 &gt; 5.0</b>   |
| Cisco EPN Manager 4.1.1           | <b>Cisco EPN Manager 4.1.1 &gt; 5.0</b> |

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 5.0:

- FTP and TPTP will be disabled by default.
- 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.
- 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.

### Limitations on Carrier Ethernet Circuit Provisioning

- Promotion of service using old probe name format will be supported and probes will get listed in user interface with appropriate standard OAM Profile name after promotion.
- Sample profile: profile PM2\_3\_8\_CoS5\_DM type cfm-delay-measurement.
- Till custom profiles names is supported, empty modification of brownfield services with different naming format will cause deleting of existing custom profile and adding of new profiles with provisioning supported name format.
- Inventory models only loose and delay profiles which is associated to service. But, there can be profiles in device which is not associated to any service. Validation if limit of 100 profiles is reached in device is not handled before config is deployed.

- Error will be thrown from device and deploy will get failed when user tries to create new SLA operation profile when EPNM tries to create 101th profile.

### **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 Fault-OAM, Wrap-Protection and BFD.
- NCS5500 device series does not support Fault-OAM, Wrap-Protection and BFD.

### **Use CLI Templates for Configuring PTP Commands**

On ASR920 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.

**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.

**LINK\_DOWN alarm on sub interfaces in Gig Port**

LINK\_DOWN alarms will not be generated when link is down on sub interfaces in Gig Port.

## Cisco EPN Manager Bugs

- [Open Bugs, on page 7](#)
- [Resolved Bugs, on page 9](#)
- [Closed Bugs, on page 11](#)
- [Get Information about Cisco EPN Manager Bugs, on page 12](#)

## Open Bugs

The table below lists the open bugs in Cisco EPN Manager Release 5.0 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.

| Bugs                       | Description  |
|----------------------------|--|
| <a href="#">CSCvu37542</a> | Discrepancy in name of attribute value provided and retrieved in get VC for ignore path alarm.       |
| <a href="#">CSCvw11831</a> | External authentication on top of HA not working with local IP configuration                         |
| <a href="#">CSCvw11984</a> | Resetting the column in the alarm page is deleting the saved share filter                            |
| <a href="#">CSCvw18234</a> | Connection Verification optical feature does not update for any GUI action                           |
| <a href="#">CSCvw22536</a> | config archive page, in all devices tab, the "last archive" sorting does not work properly on months |
| <a href="#">CSCvw08221</a> | In 5.0 build 805 local-as action is not populated correctly for BGP neighbours in case of XE devices |
| <a href="#">CSCvq59838</a> | After updating optical port baud-rate/Bits Per Symbol via EPNM does not sync automatically           |

| Bugs                       | Description  |
|----------------------------|--|
| <a href="#">CSCvt90840</a> | Scroll bar not seen in notification policies edit page in a scenario                                 |
| <a href="#">CSCvu59301</a> | NCS2K->EPNM doesnt handle ckt creation/discovery of 2 or more ckts with the same ckt name properly   |
| <a href="#">CSCvu94604</a> | NCS2K -> Flex port configuration from CTC not reflecting correctly in EPNM for 200G-CK-C card_part2  |
| <a href="#">CSCvv44409</a> | SVO -> Port in OPS layer of ochtrail shows oper down in EPNM after restoration and revert operation  |
| <a href="#">CSCvw15465</a> | HVPLS option is not available to create EPLAN and EVPLAN   |
| <a href="#">CSCvv53356</a> | Duplicate services are getting listed after performing upgrade from 4.0.3 ->5.0                      |
| <a href="#">CSCvv55290</a> | [Scale] expected Optical PM collection data count is not collected for NCS4K and 2K                  |
| <a href="#">CSCvv70928</a> | Scale 5.0 (Packet) - NCSDiag Bulk Promote Tool Service List is stuck in loading on Scale             |
| <a href="#">CSCvv74403</a> | civic location not retained after logout   |
| <a href="#">CSCvv88673</a> | Client port not displayed in OTN and Line tab even after manual refresh or device sync 10.9.1        |
| <a href="#">CSCvw02622</a> | Unable to identify loopback applied on the interfaces during the bert test                           |
| <a href="#">CSCvw15291</a> | Optical circuit history tab not showing all history  |
| <a href="#">CSCvw11297</a> | CEM SDH promotion through NBI is failing   |
| <a href="#">CSCvv49937</a> | NCS55 - Device went to completed with warning when the optics interface disabled                     |
| <a href="#">CSCvv99156</a> | 5.0 5.0.1 SWT_DOWN alarm not generated after device unreachable in HA/ first failover                |
| <a href="#">CSCvs96482</a> | Failure during sync/GI in primary proxy will not retry with secondary proxy causing CF/CWW           |
| <a href="#">CSCvv39261</a> | SRTE Overlay - Z endpoint is not marked and "Show backup path" is not available                      |
| <a href="#">CSCvv24917</a> | Chrome:Edit alarm notification policies UI issues  |
| <a href="#">CSCvu19970</a> | More than 1 wavelength is not shown in the Circuits/VCS page though it is seen in circuits 360       |
| <a href="#">CSCvw13954</a> | NCS2k: Modification of OTN Trail trace identifier/Section Trace values are not retained after resync |
| <a href="#">CSCvv62167</a> | Z-End point is not coming up under Circuit/360 page (Endpoints tab) when ODU-TUNNEL deactivated      |
| <a href="#">CSCvv66127</a> | NCS1004 - Mxponder deletion doesn't remove the coherent and OTN controllers from the EPNM            |
| <a href="#">CSCvt83508</a> | Support case in Troubleshoot option throws error   |



| Bugs                       | Description   |
|----------------------------|---|
| <a href="#">CSCvu94424</a> | Select ALL in device inventory takes long time and sometimes stack the browser                |
| <a href="#">CSCvw03354</a> | Frequent restart of Alarms subscriptions- All three clients                                   |
| <a href="#">CSCvw05989</a> | Top CPU consumer- Main process-restconf-eto_TP_notif_queue-scanner-transformer-thread         |
| <a href="#">CSCvw19698</a> | Newly created user login , password change forces to stay in same screen , except few screens |

## Resolved Bugs

The table below lists bugs that were listed as open bugs in the Cisco EPN Manager 4.1 release notes that have been resolved in Cisco EPN Manager 5.0.

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

| Bugs                       | Description  |
|----------------------------|--|
| <a href="#">CSCvv12869</a> | EPN - UI - Network Inventory limited rowCount to 1000  |
| <a href="#">CSCvu91058</a> | LINK_DOWN alarm with null location column in alarm page for subinterface                             |
| <a href="#">CSCvu94437</a> | Custom syslog is not getting deleted   |
| <a href="#">CSCvv07811</a> | Catalyst3850 - Sync "Completed with Warning"   |
| <a href="#">CSCvs29170</a> | Admin link up alarm shows wrong previous severity status   |
| <a href="#">CSCvv12297</a> | N540X wrong port assignment  |
| <a href="#">CSCvu89583</a> | local (offline) geomap is not working for admin users  |
| <a href="#">CSCvu70810</a> | NCS2K -> Dropdown for configuration not working for chassis view when opened in new window           |
| <a href="#">CSCvr89141</a> | EPNM not validate the NCS2K user not exists before create a new user                                 |
| <a href="#">CSCvu82635</a> | Failure source value inconsistent for Switch, Switches and routers category of alarms                |
| <a href="#">CSCvs68779</a> | Resync on the circuit is not building a specific relationship  |
| <a href="#">CSCvt43443</a> | Service discovery fails in a scenario  |
| <a href="#">CSCvv01541</a> | End to End Performance Statistics dashlet shows values between 0-1 instead percent                   |
| <a href="#">CSCvv08329</a> | [Scale] Memory Usage is high due nice/discovery/mtosi  |
| <a href="#">CSCvv00386</a> | Chrome always pops up alert when exporting OTDR data   |
| <a href="#">CSCvt42312</a> | In get TL of OTS Link , for the retrieved data of Logo Attributes "SF Filter " attribute missing     |
| <a href="#">CSCvu65683</a> | Error in open Circuit 360 view due to corrupted customer_id col value in customerfacingservice table |

| Bugs                       | Description  |
|----------------------------|--|
| <a href="#">CSCvu67485</a> | Performance graph expands and exceeds the screen, when Device 360 is opened in network topology        |
| <a href="#">CSCvv00945</a> | Unknown Error in UI in logging page when no log modules selected and saved                             |
| <a href="#">CSCvu94287</a> | Hostname in the EPNM Syslog tab is not updated   |
| <a href="#">CSCvt44894</a> | [HA] Restart of primary while acting as standby result with a failure                                  |
| <a href="#">CSCvt16959</a> | [scale]:alarm summary-->ISIS/MPLS alarm retained for the deleted devices and device header empty       |
| <a href="#">CSCvv11665</a> | Scale] Memory Usage is high due to Nice task and Service Discovery                                     |
| <a href="#">CSCvv12752</a> | Authentication of External User with permission config manager fail for Card Mode get/create/delete    |
| <a href="#">CSCvv17395</a> | EPNM REST CONF does not respond with JSON Tags is there is one element                                 |
| <a href="#">CSCvt19360</a> | NBI: A end and Z end circuit id shown in reverse when EVPN id is modified                              |
| <a href="#">CSCvv14993</a> | In prov OCHNC for validation mode as NONE, in getVC missing acceptance threshold, missing UI parity    |
| <a href="#">CSCvv18856</a> | PPM for the line card A9K-4T16GE-TR is not supported for ASR9K device                                  |
| <a href="#">CSCvu67485</a> | Performance graph expands and exceeds the screen, when Device 360 is opened in network topology        |
| <a href="#">CSCvt66677</a> | NCS1004 device goes into collection failure sometimes  |
| <a href="#">CSCvu26031</a> | NCS2K- >Data under Configuration Tab - > Line not loading without refresh after create of cardmode/ppm |
| <a href="#">CSCvu91759</a> | Optical VC Primary State is not updated on VC admin down when there is already alarm on the VC         |
| <a href="#">CSCvu94288</a> | OCHCC service provisioning failing, error in get response as '@xpath /beans[1]/CFS[1]/serviceId[1]'    |
| <a href="#">CSCvv07204</a> | NCS2K- >Ports with warning alarms which are part of wson/sson ckt MLT are greyed out                   |
| <a href="#">CSCvv08307</a> | NCS2K- > Span loss values should be properly displayed in MLT and Link360 when link disconnected       |
| <a href="#">CSCvu98071</a> | [FEC Mode]: Unsupported/NA FEC modes need to remove from ASR9K devices                                 |
| <a href="#">CSCvv12569</a> | NCS2k:Editing LMP client/termination does not show the available local/remote interface IP address.    |
| <a href="#">CSCvv13611</a> | NCS2k: Inline edit fails for Virtual trunk tab in GMPLS/WSON section.                                  |

| Bugs                       | Description  |
|----------------------------|--|
| <a href="#">CSCvv16261</a> | In getTP, och-attributes wavelength retrieved as 'NA', instead of 'First Tunable Wavelength'         |
| <a href="#">CSCvv07473</a> | NCS2K- > Filtering not working properly for inventory in chassis view                                |
| <a href="#">CSCvv19912</a> | [NCS 1001]: OTDR scan graph plotted with improper data points  |
| <a href="#">CSCvv14638</a> | NCS1004: Card mode is NOT removed in EPNM though deleted in the device with GI enabled.              |
| <a href="#">CSCvv13543</a> | NCS2K -> Data retention \"Age\" value for optical 15 min tables cant be set between 169 to 336 days  |
| <a href="#">CSCvv10919</a> | NCS2K -> OTN lines under configuration tab goes blank after navigation to Logical view->OTN FEC      |
| <a href="#">CSCvv09376</a> | NCS2K- > Discrepancy between device up time in EPNM and TL1  |
| <a href="#">CSCvv08502</a> | Add card screen not opening if selected device has more racks(my case it is 4)                       |
| <a href="#">CSCvu77343</a> | Create ODU circuit between two NCS4K's via CLI where Z end inventory status shows Collection failure |
| <a href="#">CSCvu81090</a> | After restoring EPNM 3.1.3 on 4.0 device parameters are missing or replaced by garbage values        |

## Closed Bugs

The table below lists the closed bugs in Cisco EPN Manager Release 5.0.

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 bugs.

| Bugs                       | Description  |
|----------------------------|--|
| <a href="#">CSCvu26031</a> | NCS2K->Data under Configuration Tab -> Line not loading without refresh after create of cardmode/ppm |
| <a href="#">CSCvu91759</a> | Optical VC Primary State is not updated on VC admin down when there is already alarm on the VC       |
| <a href="#">CSCvq68100</a> | Create UNI: TenGig Port is not listing in provisioning UI  |
| <a href="#">CSCvu70810</a> | NCS2K -> Dropdown for configuration not working for chassis view when opened in new window           |
| <a href="#">CSCvu94288</a> | OCHCC service provisioning failing, error in get response as '@xpath /beans[1]/CFS[1]/serviceId[1]'  |
| <a href="#">CSCvs41600</a> | [Upgrade] Upgrade in Bare Metal fails with Grub ERROR  |
| <a href="#">CSCvt05351</a> | SR TE policy does not gets updated when Segment-lists gets updated.                                  |
| <a href="#">CSCvt23322</a> | Port-status combo impact is not clear during terminate of service                                    |

| Bugs                       | Description   |
|----------------------------|---|
| <a href="#">CSCvo29772</a> | MUT: Inventory restconf notifications are delayed by 1.5 hours                                    |
| <a href="#">CSCvv07473</a> | NCS2K-> Filtering not working properly for inventory in chassis view                              |
| <a href="#">CSCvw19016</a> | [Scale] ncs4k :SDN/SONET slow policy collection , causing other scheulers job to start with delay |

## 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.

- 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>

#### 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.

## Related Documentation

For a list of all documentation available for Cisco EPN Manager 5.0, see the Cisco Evolved Programmable Network Manager 5.0 Documentation Overview. The documentation overview also lists several Cisco Prime Infrastructure documents because the content of those documents is relevant to Cisco EPN Manager 5.0.

## Accessibility Features in Cisco EPN Manager 5.0

For a list of accessibility features in Cisco EPN Manager 5.0, please contact [accessibility@cisco.com](mailto: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](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](#)

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