



Cisco Prime Network 4.3.1 Release Notes

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Introduction

Cisco Prime Network 4.3.1 provides service providers and other network operators with a comprehensive assurance and device management solution for IP next-generation networks (NGNs), mobility, data center, and cloud. It is offered as a standalone application and as a fully integrated component of the Cisco Prime Carrier Management suite for customers needing end-to-end network management lifecycle capabilities. It provides standards-based interfaces to integrate with OSS applications.

The Cisco Prime Network 4.3.1 primarily supports the following features and enhancements:

- Mobility StarOS 20.0 and StarOS 21.0 inventory modeling and command updates.
- Device back-up report in an XLS format for the latest archived versions.
- Option for Exporting Job results in an XLS format from CCM modules.
- Improved XWT table performance of compliance manager.
- Upgrade of Red Hat (RHEL) 6.5 to 6.7 version.
- AAA TACACS+ inventory modeling and command updates for ASR9K and Catalyst 6500 VSS series devices.
- Ability to configure E-mail Notification address in the Global Report Settings and to send a report through e-mail notification.
- Prime Network client installation in a Windows 10 remote PC.
- Ability to capture Resynced alarms between Prime Network and ASR5K devices.

**Note**

Prime Network supports third-party devices through Cisco Advanced Services engagement. As of release 4.2, Prime Network will not natively support third-party devices, and a Cisco Advanced Services contract will be required for their enablement and support.

New Features and Enhancements

The following topics describe the new features and enhancements introduced in Prime Network 4.3.1:

- [New Technology Support in Prime Network 4.3.1, page 2](#)
- [Installation and Upgrade, page 4](#)
- [Administration, page 4](#)
- [Change and Configuration Management, page 4](#)
- [New Device Support Information, page 4](#)

New Technology Support in Prime Network 4.3.1

The following new enhancement is described in the *Cisco Prime Network 4.3.1 User Guide*:

- **StarOS 20.0 and StarOS 21.0 Mobility Services** – Additional IRD and IMO delta inventory models and its components are added. These components are used to provide support for Small Cell and other feature as a part of mobility. The following are list of services where inventory modeling attributes are added or updated for ASR5K devices.

- IuPS Service
- CGW Service
- EPDG Service
- GTPP Service
- eGTP Service
- HNB-GW Service
- P-GW Service
- S-GW Service
- MME Service
- HA Service
- MRME Service
- GGSN Service
- LMA Service
- PDSN Service
- HeNB-GW Service
- WSG Service
- SaMOG Service
- Crypto Template Service
- FA Service

TACACS+ Support:

- Supports the following AAA TACACS+ technology model configurations:
 - TACACS+ Global Configuration
 - TACACS+ Servers
 - TACACS+ Group Configuration
- Device Package support added for TACACS+ to ASR 9000 and Catalyst 6500 VSS series.

Resynced Alarms:

- Shows events, traps, tickets details for resynced service alarm tickets.
- View how regular and resynced events detail are displayed in Prime Network.

BGP Service Alarms Enhancement and Peer Up/Down Time Property Support:

- Following BGP Service Alarms are enhanced to include the VRFName:
 - BGP neighbor loss VRF due to oper
 - BGP neighbor found
 - BGP link down VRF due to oper
 - BGP link up
- Ability to view BGP **Peer Up/Down Time** property in BGP Neighbor table.
 - Device package support added for NCS6K, ASR9K, CRS, ASR1K, NEXUS9K, NEXUS7K.

Sending a Report through E-Mail Notification:

When you create a report, if e-mail notification details are provided, you can run the report and automatically the report is mailed as an attachment in a desired format. You can attach reports in a XML, PDF, CSV, XLS, or HTML format.

Installation and Upgrade

The following installation and upgrade features and enhancements are described in the [Cisco Prime Network 4.3.1 Installation Guide](#):

- Red Hat 6.7 64-bit Server Edition (English language) is supported in Prime Network 4.3.1. It can run in a virtual environment and is supported on VMware ESXi version 5.5, and 6.0.
- Install Prime Network GUI clients from thick and thin clients in a remote PC (Windows 10 OS).

Administration

The following new enhancement is described in the [Cisco Prime Network 4.3.1 Administrator Guide](#):

Legacy Vision Report Enhancement—Allows you to configure E-Mail Notification Addresses in the Global Report Settings.

Change and Configuration Management

The following new CCM feature and enhancement is described in the Cisco Prime Network 4.3.1 User Guide:

Export Job Results—View the Job status in a XLS format for the completed job from the **All Jobs** tab, or from each module of the CCM.

Device Back-Up Report—Export and download the backup information with the latest archived version in XLS format.

Improved loading time when editing compliance audit job—Introduced Virtual Scrolling to improve the loading time performance of edit compliance audit dialog box.

New Device Support Information

Prime Network 4.3.1 introduces new device support and also incorporates all the device support additions that were provided in the September and November 2016 Device Packages. For more information, see [Cisco Prime Network 4.3.1 Supported Cisco VNEs](#). Additional device support will be available in the next DP. This will be available for download on the Prime Network download site on Cisco.com and will be documented in [Cisco Prime Network 4.3.1 Supported Cisco VNEs—Addendum](#).

Important Notes

This section provides important information of which you should be aware before using Prime Network 4.3.1.

Installation and Upgrade

Before performing any fresh installation of High Availability (HA), ensure that any label used by any cluster service to name a distinct block device on any node in the cluster, must be unique across all block devices on the nodes of the cluster. You need to run the command on all nodes of the cluster, and cross check across all results before configuring local HA cluster because, a label used in a cluster service may not be reused by any block device with a different UUID which is listed by command 'blkid'.

Non-Starting of Compliance Engine

If the compliance engine does not start, follow the below steps:

- Before upgrading to 4.3.1.0, take the backup file **nccmDatabase.properties** that is located in `PNHOME/utills/independent/compliance/resources/server/global/nccmDatabase.properties`.
- After upgrading to 4.3.1.0, replace the backed up file **nccmDatabase.properties**.
- Perform `cmctl` restart.

Un-Configured VDC

- The Unconfigured VDC in the logical inventory shows configuration detail with empty data.
- Differentiation between Unconfigured VDC and suspended VDC in Prime Network is not available.

PN-IL Health Monitor

By default, the PN-IL health monitor is disabled.

CCM Environment Limitations

1. The XMP process requires 64-bit Java environment.
2. The number of Linux memory pages should be increased to 8718 to support CCM.

To increase the Linux memory page size, perform the following steps:

- a. Login to the Linux server as a `pnuser`.
- b. Increase the number of pages in the server by entering the following command:
`sysctl -w vm.nr_hugepages=8718`
- c. View the changes by entering the following command:
`cat /proc/meminfo | grep Huge`

Limitations in Compliance Manager

1. In Compliance Audit, few system AAA service policies show incorrect audit violations. For more information, see [CSCvm56361](#).
2. In Compliance Audit, few Fix CLI commands are applied twice. For more information, see [CSCvm84162](#).

Workflow and Activation Replaced With Transaction Manager

Activation and workflow features have been replaced with Transaction Manager. These features are no longer available in Prime Network.

Configuration Audit Features Available Only upon Upgrade

The configuration audit feature in Change and Configuration Management is deprecated and is being replaced with Compliance Audit. When you upgrade to Prime Network Version 4.3.1, the system prompts you about the Configuration feature. Based on your input, the Configuration Audit feature is enabled or disabled.

Cable Technology - uBR10K Devices

For uBR10K devices, cable modeling for Upstream and Downstream channels and complete modeling for the MC20X20V and MC3GX60V line cards will be only supported from versions 12.2(33)SCG5 and higher.

Browser Limitations for Prime Network Web Components

In Firefox 24, users might not be able to connect to the Prime Network 4.3.1 web server to use features such as VCB, Network Discovery, and CCM, using Firefox 24 if the gateway IP address is a raw IPv6 address. This issue seen because of Firefox defect. To avoid this issue, log in to Prime Network 4.3.1 using a hostname instead of an IP address.

Automatic Restart After Gateway Reboot

Prime Network 4.3.1 will restart automatically whenever the gateway server is restarted. This behavior can be disabled (so that Prime Network 4.3.1 has to be manually started after a gateway restart). See the [Cisco Prime Network 4.3.1 Administrator Guide](#) for more information.

Auto-Discovery of Unsupported Modules

Auto-discovery of unsupported module types is done on a best effort basis and is based on standard information which is reported by the device as part of the ENTITY-MIB. Operators are advised to validate that the discovery was fully successful. If not, add support for the specific module type using the VCB.

SNMP Configuration

When VNE is configured to use SNMPv2 or SNMPv3 for discovery, SNMPv1 must also be enabled with the device.

Prime Network 4.3.1 Bugs Using Bug Search Tool

Use the Bug Search tool (BST) to get the latest information about Cisco Prime Network 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.

Bug Search allows you to:

- Quickly scan bug content
- Configure e-mail notifications for updates on selected bugs
- Start or join community discussions about bugs
- Save your search criteria so you can use it later

When you open the Bug Search page, check the interactive tour to familiarize yourself with these and other Bug Search features.

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- Step 1** Log in to 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 search for bugs in the current release:
- a. Enter **Prime Network 4.3.1** in the Search For field and hit Return. (Leave the Product, Software Type, Release, and Show Bugs fields empty.)
 - b. When the search results are displayed, use the filter and sort tools to find the types of bugs you are looking for. You can search for bugs by severity, by status, how recently they were modified, according to the number of support cases associated with them, and so forth.

If you know the bug ID, simply enter it in the Search For field and hit Return.

Open Bugs in Prime Network 4.3.1

You can find detailed information about all open bugs in Release 4.3.1. For more information, see [Prime Network 4.3.1 Bugs Using Bug Search Tool, page 6](#).

This search uses the following parameters:

Table 1 *Open Bugs*

Field	Parameter
Product drop-down list	Choose Series/Model and enter Cisco Prime Network.
Releases drop-down list	Choose Affecting or Fixed in these Releases and enter 4.3.1.
Filter	Choose Open from the Status drop-down list.

Resolved Bugs in Prime Network 4.3.1

You can find detailed information about all resolved bugs in Release 4.3.1. For more information, see [Prime Network 4.3.1 Bugs Using Bug Search Tool, page 6](#).

This search uses the following parameters:

Table 2 *Resolved Bugs*

Field	Parameter
Product drop-down list	Choose Series/Model and enter Cisco Prime Network.
Releases drop-down list	Choose Affecting or Fixed in these Releases and enter 4.3.1.
Filter	Choose Fixed from the Status drop-down list.

Bugs Resolved in Earlier Releases but Still Open in Prime Network 4.3.1

The bugs listed in [Table 3](#) were identified too late in the Prime Network 4.3.1 development cycle to be fixed for this release. The fixes for these bugs have been provided to customers running older versions of the product as needed and are scheduled for inclusion in the next release.

Table 3 *Bugs Resolved in Earlier Releases but Still Open in Prime Network 4.3.1*

Bug ID	Description
CSCuz49060	Prime Network Vision Client does not display properly because DS3 -> Ds1 channelization requires IDS1PdhChannelized IMO interface class for channelization controller initialization.
CSCvb84930	Timeout for TL1Collector has to be added.
CSCvc09559	VNE creates OSPF neighbor up service alarm, when neighbor status changes to intermediate protocol state.
CSCvc30296	OSPF neighbor/link is not removed from model when alarm is acknowledged.
CSCvc71019	Mismatch of Card slot Hardware type.

Accessibility Features in Prime Network 4.3.1

The Prime Network 4.3.1 software does not provide accessibility features. 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 "[Accessibility Features in Prime Network 4.3.1](#)" section.

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