



Cisco Prime Network 5.2 Release Notes

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Americas Headquarters:
Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA

Introduction

Cisco Prime Network 5.2 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 5.2 primarily supports the following new technology features and enhancements:

- StarOS 21.11 - 5G new gateways
- StarOS 21.9, 21.10, 21.11, and 21.12 - SX Peers Neighborhood between Control Plane and User Plane services
- Management of server-based infrastructure:
 - Support for Cisco Prime Access Registrar (CPAR)
 - Support for Cisco Prime Network Registrar (CPNR)
- Support for ring topology (map and inventory)
- Introduction of Modules SFP Summary (By Type) Report
- Support for dot3StatsFCSErrors to notify about discarded frames
- Image download enhancement in Change and Configuration Management
- CCM - Support for modification of "From" address for jobs email notifications
- Support of KVM Hypervisor using VCB Customization

The Cisco Prime Network 5.2 primarily supports the following platform specific features and enhancements:

- Red Hat 6.10 and 7.5 with latest RPMs
- ESXi 6.7
- Oracle 12.2.0.1 upgrade with latest January 2019 Critical Patch Updates (CPUs)
- Apache Server 2.4.38

**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.

Cisco Prime Network Interoperability

Prime Network 5.2 can inter-operate with the following Cisco Prime products:

Cisco Prime Central 1.5.3, 2.0, and 2.1

New Features and Enhancements

The following topics describe the new features and enhancements introduced in Prime Network 5.2:

- [Enhancements in Prime Network Vision, page 3](#)
- [Enhancements in Change and Configuration Management, page 3](#)
- [New Technology Support in Prime Network 5.2, page 4](#)
- [Installation and Upgrade, page 4](#)
- [Customization, page 4](#)

Enhancements in Prime Network Vision

The following enhancements are described in the *Cisco Prime Network 5.2 User Guide*:

StarOS 21.11 5G New Gateways

Prime Network 5.2 supports 5G Non Standalone (NSA), by means of Dual Connectivity with NR, enabling operators to use Cisco EPC Packet Core to launch 5G services in shorter time and leverage existing infrastructure.

StarOS 21.9, 21.10, 21.11, and 21.12 - SX Peers Neighborhood between Control Plane and User Plane services

Prime Network 5.2 allows you to view neighborhood information between the Control Plane and User Plane services.

Management of server-based infrastructure

Prime Network 5.2 supports the following Linux-based management applications as VNEs for managing server-based infrastructure:

- CPAR
- CPNR

Support for ring topology (map and inventory)

Prime Network 5.2 allows you to view ring topology details in both map and inventory.

Introduction of Modules SFP Summary (By Type) Report

Prime Network 5.2 introduces a new type of Hardware Report: Modules SFP Summary (By Type) report that retrieves Pluggable Transceiver properties along with usual module details.

Support for dot3StatsFCSErrors to notify about discarded frames

Prime Network 5.2 notifies the user about the discarded frames by the following new service alarms:

- Discarded frame rate exceeded upper threshold
- Discarded frame rate is below lower threshold

Enhancements in Change and Configuration Management

CCM Image Download Enhancement

Prime Network 5.2 allows you to download images from Cisco.com.

CCM - Support for modification of "From Email Id" for jobs email notification

Prime Network 5.2 lets you configure the "From Email Id" field in configuration and image management Settings page enabling a mechanism to send the job results to the users.

New Technology Support in Prime Network 5.2

- CUPS
- 5G NSA

Installation and Upgrade

The following installation and upgrade features and enhancements are described in the [Cisco Prime Network 5.2 Installation Guide](#):

Platform: RedHat 6.10 and 7.5 support with latest RPMs

- Red Hat 6.10 and 7.5 64-bit Server Edition (English language) is supported in Prime Network 5.2. It can run in a virtual environment and is supported on VMware ESXi version 4.0, 5.5, 6.0, and 6.7.

Oracle Patch update

- Oracle 12.2.0.1 upgrade on both external and embedded with January 2019 Critical Patch Updates (CPUs).



Note Operations report (OR) is not supported on RHEL 7.x.

Apache 2.4.38

Prime Network uses Apache 2.4.38 for improved security.

Customization

The following new enhancements are described in the [Cisco Prime Network 5.2 Customization Guide](#):

Support of KVM Hypervisor using VCB Customization

Prime Network 5.2 provides device support and fault management support for KVM Hypervisor. It allows you to configure the SysOID of KVM Hypervisor via VCB Customization.

New Device Support Information

Prime Network supports the following new device support information:

- Cisco Network Convergence System 540 Series Routers (NCS 540)

New Module Support for Devices

Prime Network 5.2 introduces module support for devices in the device packages released during Sep DP1809, Nov DP1811, Jan DP1901, and Mar DP1903. Additional device support will be available in the next DP. For more information about the module support of devices, download the [Cisco Prime Network 5.2 Supported Cisco VNEs - Addendum](#) document on the Prime Network download site on Cisco.com.

Important Notes

This section provides important information of which you should be aware before using Prime Network 5.2.

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 5.2, take the backup file **nccmDatabase.properties** that is located in `PNHOME/utills/independent/compliance/resources/server/global/nccmDatabase.properties`.
- After upgrading to 5.2, replace the backed up file **nccmDatabase.properties**.
- Perform `cmctl` restart.

UnConfigured 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 5.0, 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 5.2 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 5.2 using a hostname instead of an IP address.

Automatic Restart After Gateway Reboot

Prime Network 5.2 will restart automatically whenever the gateway server is restarted. This behavior can be disabled (so that Prime Network 5.2 has to be manually started after a gateway restart). See the [Cisco Prime Network 5.2 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.

Prime Network 5.2 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.

Step 1 Log in to 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 search for bugs in the current release:

- Enter **Prime Network 5.2** in the Search For field and hit Return. (Leave the Product, Software Type, Release, and Show Bugs fields empty.)
- 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 5.2

[Table 1](#) lists the open bug in Cisco Prime Network 5.2 release. Click the Bug ID to view the impact and workaround for the bug in the [Bug Search Tool](#). Use this tool to track the status of the open bug.

Table 1 *Open Bugs*

Bug ID	Description
CSCvk11711	Unable to re-locate the services when oracle username contains the first part of Pn username.
CSCvp62979	Value of Max-Retransmission Under SX Heartbeat is not reflecting in PN GUI
CSCve19010	Discovering & Creating VNEs with different enabled password results in telnet sequence errors.
CSCun61203	SSH private key stored as clear text in Prime Network servers
CSCvp57482	Unable to launch links under Strong Encryption Eligibility Agreement
CSCvp72467	CCM Help does not display Images and also navigation fails
CSCvo26117	SGSN parameters are not updated in PN
CSCvp96671	CCM (Enival)Syslog's in CPNR are not received in PN5.2

Closed Bugs in Prime Network 5.2

Table 2 lists the closed bugs in Cisco Prime Network 5.2 release. Click the Bug ID to view the conditions and workaround for the bug in the [Bug Search Tool](#). Use this tool to track the status of the closed bug.

Table 2 **Closed Bugs**

Bug ID	Description
CSCvp01525	VNE does not come up with default DP00 after rollback
CSCuq72911	Fault in rootdeploy.cmd script prevents automatic restart after reboot in Prime Network gw and unit

Resolved Bugs in Prime Network 5.2

You can find detailed information about all resolved bugs in Release 5.2. For more information, see [Prime Network 5.2 Bugs Using Bug Search Tool, page 6](#).

This search uses the following parameters:

Table 3 **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 5.2.
Filter	Choose Fixed from the Status drop-down list.

Bugs Resolved in Earlier Releases but Still Open in Prime Network 5.2

The bugs listed in [Table 4](#) were identified too late in the Prime Network 5.2 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 4 **Bugs Resolved in Earlier Releases but Still Open in Prime Network 5.0**

Bug ID	Description
	Not applicable.

Accessibility Features in Prime Network 5.2

The Prime Network 5.2 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 5.2](#)” section.

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