Cisco Prime Network Services Controller 3.2.2b Release Notes

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Prime Network Services Controller Overview

The dynamic nature of cloud environments requires organizations to apply and enforce frequent changes to networks. These networks can consist of thousands of virtual services elements, such as firewalls, load balancers, routers, and switches. Cisco Prime Network Services Controller simplifies operations with centralized, automated multi-device and policy management for Cisco network virtual services. For the latest Prime Network Services Controller release updates and overview, see the corresponding Prime Network Services Controller data sheet.

Cisco Prime Network Services Controller (Prime Network Services Controller) is the primary management element for Cisco Nexus 1000V (Nexus 1000V) Switches and Services that can enable a transparent, scalable, and automation-centric network management solution for virtualized data center and hybrid cloud environments. Nexus 1000V switches and services deliver a highly secure multitenant environment by adding virtualization intelligence to the data center network. These virtual switches are built to scale for cloud networks. Support for Virtual Extensible LAN (VXLAN) helps enable a highly scalable LAN segmentation and broader virtual machine (VM) mobility.

Prime Network Services Controller enables the centralized management of Cisco virtual services to be performed by an administrator, through its GUI, or programmatically through its XML API. Prime Network Services Controller is built on an information-model architecture in which each managed device is represented by its subcomponents (or objects), which are parametrically defined. This model-centric approach enables a flexible and simple mechanism for provisioning and securing virtualized infrastructure using Cisco VSG and Cisco Adaptive Security Appliance 1000V (ASA 1000V) Cloud Firewall virtual security services.

In addition, Prime Network Services Controller supports Cisco Cloud Services Router 1000V (CSR 1000V) edge routers, and Citrix NetScaler 1000V and Citrix NetScaler VPX load balancers. This combination of virtual services brings numerous possibilities to customers, enabling them to build virtual data centers with all of the required components to provide best-in-class cloud services.

New Features and Changes

Prime Network Services Controller 3.2.2b adds support for the following devices in VMware environments:

- Cisco Nexus 1000V for VMware Release 5.2(1)SV3(1.1)
- Cisco Virtual Security Gateway for VMware vSphere 5.2(1)VSG2(1.2)

The following features **are not** supported in 3.2.2b:

- **Prime Network Services Controller deployment on OpenStack or Microsoft Hyper-V Hypervisor.**
- Cisco Cloud Services Router 1000V version 3.11 or 3.11.rebuild.
- Automatic instantiation of network services.
- InterCloud functionality—If you are using a version of Prime Network Services Controller that includes InterCloud functionality, you will not be able to upgrade to 3.2.2b until you remove all InterCloud objects from your current installation. For more information, see the Cisco Prime Network Services Controller 3.2.2b Quick Start Guide.

The following documents have been updated for Prime Network Services Controller 3.2.2b:

- Cisco Prime Network Services Controller 3.2.2b Release Notes (this document)
- Cisco Prime Network Services Controller 3.2.2b Quick Start Guide
- Cisco Prime Network Services Controller 3.2.2b Supported Devices

All Prime Network Services Controller documentation is available at http://www.cisco.com/c/en/us/support/cloud-systems-management/prime-network-services-controller/tsd-products-support-series-home.html.

Download Location

Prime Network Services Controller 3.2.2b images are available for download from www.cisco.com.

1 Go to http://software.cisco.com/download/navigator.html.

2 Choose **Products > Cloud and Systems Management > Cloud Management > Cisco Prime Network Services Controller > Cisco Prime Network Services Controller 3.2 > Prime Network Services Controller Software**.

3 Download the following .zip files:

- Cisco Prime Network Services Controller 3.2(2b)
- Cisco Prime Network Services Controller Device Adapter 3.2(2b)

Requirements Overview

The following topics identify the primary requirements for installing and using Prime Network Services Controller. For a complete set of requirements, see the Cisco Prime Network Services Controller 3.2.2b Quick Start Guide.

- System Requirements, on page 3
- Hypervisor Requirements, on page 4
- Web-Based GUI Client Requirements, on page 5
- Firewall Ports Requiring Access, on page 5

System Requirements

Requirement	Description
Prime Network Services Controller Virtual Appliance	
Four Virtual CPUs	1.8 GHz
Memory	4 GB RAM

Requirement	Description
Disk Space	220 GB on shared NFS or SAN, configured on two disks as follows: • Disk 1—20 GB • Disk 2—200 GB
Management Interface	One management network interface
Processor	x86 Intel or AMD server with 64-bit processor listed in the VMware compatibility matrix
Prime Network Services Controller Device Adapter	
Two virtual CPUs	1.8 GHz
Memory	2 GB RAM
Disk Space	20 GB
Interfaces and Protocols	
HTTP/HTTPS	—
Lightweight Directory Access Protocol (LDAP)	—
Intel VT	
Intel Virtualization Technology (VT)	Enabled in the BIOS

Hypervisor Requirements

Prime Network Services Controller is a virtual appliance that can be deployed on VMware vSphere. See the VMware Compatibility Guide to verify that VMware supports your hardware platform.

Requirement	Description
VMware	
VMware vSphere	5.1 and 5.5 with VMware ESXi (English only)
VMware vCenter	5.1 and 5.5 (English only)

Web-Based GUI Client Requirements

Requirement	Description
Operating System	Either of the following: • Microsoft Windows • Apple Mac OS
Browser	Any of the following: • Internet Explorer 10.0 or higher • Mozilla Firefox 26.0 or higher • Google Chrome 32.0 or higher
Flash Player	Adobe Flash Player plugin 11.9 or higher

Firewall Ports Requiring Access

If Prime Network Services Controller is protected by a firewall, the following ports on the firewall must be open so that clients can contact Prime Network Services Controller.

Port	Description
80	HTTP
443	HTTPS
843	Adobe Flash

Performance and Scalability

The following table lists the performance and scalability data for Prime Network Services Controller when using VMware.

Item	Scalability Numbers
Endpoints (ASA 1000Vs, CSR 1000Vs, Citrix NetScaler load balancers, and VSGs)	512
Hypervisors	600
Locales	256
Object Groups	65536

Item	Scalability Numbers
Orgs	2048
Policies	4096
Policy Sets	2048
Rules	16384
Security Profiles	2048
Tenants	255
Managed VMs	6000
Users	260
Zones	8192

Hypervisor Support

Prime Network Services Controller 3.2.2b supports the VMware vSphere hypervisor. It does not support OpenStack KVM or Microsoft Hyper-V Hypervisor.

Important Notes

The following topics provide important information for using Prime Network Services Controller:

- Cisco ASA Instances Do Not Register with Prime Network Services Controller, on page 6
- Cloned Linux Virtual Machines, on page 7
- Editing Firewall Interfaces, on page 7
- Online Help Includes InterCloud Management Topics, on page 7
- Searching with Special Characters, on page 7
- User Account Password Expiration, on page 7

Cisco ASA Instances Do Not Register with Prime Network Services Controller

If you instantiate an ASA 1000V service using the asa871-8.ova image, the service instance will not register with Prime Network Services Controller. Contact Cisco Technical Assistance Center (TAC) for help in addressing this issue.

You can contact the TAC over the phone or via the Web:

- Regional phone numbers are available at http://www.cisco.com/c/en/us/support/web/tsd-cisco-worldwide-contacts.html#numbers.

- To use the Web, go to http://www.cisco.com/cisco/web/support/index.html.

Cloned Linux Virtual Machines

When Linux virtual machines are cloned, new MAC addresses are assigned. This causes a MAC address mismatch between the VM settings and the Linux Guest OS. If you encounter this situation, the following message is displayed:

```
The Guest OS either does not contain interface configuration for the VM NICs or the
interfaces are explictly disabled.
```

For information on how to resolve the MAC address mismatch, see the VMware Knowledge Base.

Editing Firewall Interfaces

We recommend that you do not edit the data interfaces of compute or edge firewalls. Changing the data interface via the Prime Network Services Controller GUI will stop communications between the Cisco Nexus 1000V VEM link and the firewall, and thereby stop vPath traffic.

If you change the data interfaces of compute or edge firewalls via the Prime Network Services Controller GUI, make the appropriate configuration changes on the Nexus 1000V.

Online Help Includes InterCloud Management Topics

The Prime Network Services Controller 3.2.2b online help includes InterCloud Management topics even though this release does not support InterCloud functionality.

Searching with Special Characters

Searching for organization names will not work if the organization names include special characters, such as $.

User Account Password Expiration

When adding a user account, the administrator can choose to expire the account password and select the date on which it expires. When the expiration date is reached, the account is disabled and the user cannot log in to Prime Network Services Controller until a user with administrator privileges extends the expiration date.

Open Bugs

The following table lists the open bugs in Prime Network Services Controller 3.2.2b.

Bug ID	Description
CSCum54226	In a scale setup, if you stop and then start Prime Network Services Controller, Prime Network Services Controller does not recover.
CSCuq30318	In a high availability setup, a VSG pair sequentially creates the primary and secondary VMs. As a result, the HA pair is not created and the VSG cannot register with Prime Network Services Controller.

Bug ID	Description
CSCuq30512	The Prime Network Services Controller VM Manager displays a communication error and VMs cannot be deployed.
CSCuq37647	If you associate and disassociate the same service path multiple times for a port profile, the configuration changes are not reflected in the VSM console.
CSCuq42027	Prime Network Services Controller does not configure the use source IP address on Citrix NetScaler load balancers. As a result, vPath does not function properly.
CSCuq42918	Port profiles that are created in Prime Network Services Controller GUI are not deployed in the VSM command-line interface.

Using the Bug Search Tool

This topic explains how to use the Bug Search Tool to search for a specific bug or to search for all bugs in a release.

Procedure

Step 1 Go to http://tools/cisco.com/bugsearch.

Step 2 In the Log In screen, enter your registered Cisco.com username and password, and then click **Log In**. The Bug Search page opens.

    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 3 To search for a specific bug, enter the bug ID in the Search For field and press **Enter**.

Step 4 To search for bugs in the current release:

    a) In the Search For field, enter Cisco Prime Network Services Controller 3.2.2b and press **Enter**. (Leave the other fields empty.)

    b) When the search results are displayed, use the filter tools to find the types of bugs you are looking for. You can search for bugs by status, severity, modified date, and so forth.

        Tip To export the results to a spreadsheet, click the **Export Results to Excel** link.

Related Documentation

Prime Network Services Controller

The Prime Network Services Controller documentation is available on Cisco.com at the following URL:

http://www.cisco.com/c/en/us/support/cloud-systems-management/prime-network-services-controller/tsd-products-support-series-home.html

Cisco ASA 1000V Documentation

The Cisco Adaptive Security Appliance (ASA) documentation is available on Cisco.com at the following URL:

http://www.cisco.com/c/en/us/support/security/asa-1000v-cloud-firewall/tsd-products-support-series-home.html

Cisco Nexus 1000V Series Switch Documentation

The Cisco Nexus 1000V Series switch documentation is available on Cisco.com at the following URL:

http://www.cisco.com/c/en/us/support/switches/nexus-1000v-switch-vmware-vsphere/tsd-products-support-series-home.html

Cisco Prime Data Center Network Manager Documentation

The Cisco Prime Data Center Network Manager (DCNM) documentation is available on Cisco.com at the following URL:

http://www.cisco.com/c/en/us/support/cloud-systems-management/prime-data-center-network-manager/tsd-products-support-series-home.html

Cisco Virtual Security Gateway Documentation

The Cisco Virtual Security Gateway (VSG) documentation is available on Cisco.com at the following URL:

http://www.cisco.com/c/en/us/support/interfaces-modules/virtual-security-gateway-nexus-1000v-series-switch/tsd-products-support-model-home.html

Accessibility Features in Prime Network Services Controller 3.2.2b

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/c/en/us/td/docs/general/whatsnew/whatsnew.html.

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