



# Cisco Nexus Cloud Services Platform Release Notes, Release 4.2(1)SP1(6.2a)

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This document describes the features, limitations, and caveats for the Cisco Nexus Cloud Services Platform management software. Use this document in combination with documents listed in the [Related Documentation, page 6](#).

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## Hardware Features

The Cisco Nexus Cloud Services Platform is a hardware shell that can host multiple virtual service blades, including the Cisco Nexus Virtual Supervisor Modules (VSMs). From a network management perspective, the hosted VSMs appear as a cluster. Each VSM and its associated Virtual Ethernet Modules (VEMs) make up one virtual switch.



The Cisco Nexus Cloud Services Platform family includes the following appliances:

- Cisco Nexus 1010
- Cisco Nexus 1010-X
- Cisco Nexus 1110-S
- Cisco Nexus 1110-X

No new hardware is included in the Cisco Nexus Cloud Services Platform product family in this release.

## Cisco Nexus Cloud Services Platform Features

Table 1 lists the features of the Cisco Nexus Cloud Services Platform appliances.

**Table 1** Cisco Nexus Cloud Services Platform Product Family Appliance Features

Cisco Nexus Cloud Services Platform Appliance	Memory	Hard Disk	Support for VSBs
Cisco Nexus 1010	16GB	One TB SATA	Up to 6 VSBs (limited by the available RAM on the Cisco Nexus Cloud Services Platform)
Cisco Nexus 1010-X	48GB	Two 2-TB SAS drives	Up to 10 VSBs
Cisco Nexus 1110-S	32GB	Two 2-TB SATA drives	Up to 10 VSBs
Cisco Nexus 1110-X	64GB	Four 4-TB SATA drives	Up to 14 VSBs

For information about the hardware feature descriptions and specifications, see the *Cisco Nexus Cloud Services Platform Hardware Installation Guide*.

For information about the software installation and upgrade, see the *Cisco Nexus Cloud Services Platform Software Installation and Upgrade Guide*.

## Software Features

The Cisco Nexus Cloud Services Platform supports the following Virtual Service Blades:

- Cisco Nexus 1000V VSM for VMware vSphere and Cisco Nexus 1000V VSM for Microsoft Hyper-V
- Cisco Network Analysis Module (NAM)
- Cisco Virtual Service Gateway (VSG)
- Cisco Nexus VXLAN Gateway
- Citrix NetScaler 1000V

No new software features are included in this release.

## Related Documentation for the Cisco Nexus Cloud Services Platform, Release 4.2(1)SP1(6.2a)

You can access all related documentation for the Cisco Nexus Cloud Services Platform, Release 4.2(1)SP1(6.2a) from the following location:

[http://www.cisco.com/en/US/products/ps12752/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps12752/tsd_products_support_series_home.html)

Navigate to the documentation for Cisco Nexus Cloud Services Platform, Release 4.2(1)SP1(6.2) to use with your Cisco Nexus Cloud Services Platform, Release 4.2(1)SP1(6.2a).

## Prerequisites for Upgrading to the Cisco Nexus Cloud Services Platform, Release 4.2(1)SP1(6.2a)

Upgrade to the following Cisco Integrated Management Controller (CIMC) software:

- Version 1.5(4e) for the Cisco Nexus 1110 product family
- Version 1.4(3s) for the Cisco Nexus 1010 product family

## Support for New Virtual Service Blades

The Cisco Nexus Cloud Services Platform supports the Citrix NetScaler 1000V Virtual Service Blades from Release 4.2(1)SP1(6.2).

Citrix NetScaler 1000V is a virtual appliance that provides comprehensive load balancing and traffic management capabilities. VPX enables application-aware L7 content switching, along with fundamental L4 load balancing functionality, featuring comprehensive health checks, session persistence mechanisms, and load balancing algorithms to ensure traffic is always sent to the most appropriate server. The Global Server Load Balancing feature on VPX also enhances disaster recovery by transparently redirecting users to alternate data centers in the event of an outage or interruption.

You can deploy the Citrix NetScaler 1000V on the Cisco Nexus Cloud Services Platform as a Virtual Service Blade. The Citrix NetScaler 1000V hosted on a Cisco Nexus Cloud Services Platform provides ease of deployment, giving you the flexibility to meet your performance use case with 2vCPU or 6vCPU deployments for high performance. Cisco Nexus Cloud Services Platform high availability (HA) also enables VPX high availability.

For more information, see the Citrix NetScaler 1000V documentation.

## Software Compatibility

The Cisco Nexus Cloud Services Platform controls the virtual services and blades running on the Cisco Nexus 1010 and Cisco Nexus 1110 appliances.

For details on Software Compatibility with the Cisco Nexus Cloud Services Platform, see the *Cisco Nexus Cloud Services Platform Software Compatibility Information Guide*.

# Configuration Limits

For detailed information on the weighting matrix and the supported configuration of VSBs on the Cisco Nexus Cloud Services Platform, see the weighting matrix in the *Cisco Nexus Cloud Services Platform Compatibility Information Guide*.

## Restrictions

The Cisco Nexus Cloud Services Platform has the following restrictions:

- [Deployment of Citrix NetScaler 1000V on the Cisco Nexus 1010](#)
- [No Error Message for Upgrade Failure, page 4](#)
- [Domain ID and HA Role Cannot Be Changed, page 4](#)
- [Boot Variables Cannot Be Manually Configured, page 4](#)
- [Changing the Control or Mgmt VLAN Requires a Reload, page 5](#)
- [DNS Resolution, page 5](#)

## Deployment of Citrix NetScaler 1000V on the Cisco Nexus 1010

The deployment of the Citrix NetScaler 1000V VSB on the Cisco Nexus 1010 is restricted to only one instance. The Citrix NetScaler 1000V can be deployed only when no other VSB is present.

For more information on installing a virtual service blade, see the *Cisco Nexus Cloud Services Platform Software Configuration Guide*.

## No Error Message for Upgrade Failure

If an upgrade to Cisco Nexus Cloud Services Platform Release 4.2(1)SP1(6.2a) from release 4.2(1)SP1(6.2) or earlier fails, no error message is displayed. This limitation is associated with CSCub39408.

## Domain ID and HA Role Cannot Be Changed

The configured domain ID and high availability (HA) role (standalone, primary, or secondary) can never be changed. To change the domain ID or the HA role, you must use the **write erase** command.

## Boot Variables Cannot Be Manually Configured

The boot variables cannot be configured manually. To change the boot variables, you must enter the **install nexus CSP** command. This command installs the software from the bootflash:/repository directory and updates the boot variables with the name of the software image.

## Changing the Control or Mgmt VLAN Requires a Reload

If you change the control or management VLAN, you must reload the software before the change takes effect.

## DNS Resolution

The Cisco Nexus Cloud Services Platform cannot resolve a domain name or hostname to an IP address.

## Caveats

This section includes the following topics:

- [Open Caveats, page 5](#)
- [Resolved Caveats, page 6](#)

## Open Caveats

The following are descriptions of the open caveats in Cisco Nexus Cloud Services Platform Release 4.2(1)SP1(6.2a). The bug ID links you to the Cisco Bug Search Tool.

**Table 2**      **Open Caveats**

Bug ID	Caveat Headline
CSCuo47378	<p>The primary and secondary Cisco Nexus Cloud Services Platforms fail to form high availability (HA) due to warm standby mode.</p> <p>Workaround:</p> <ol style="list-style-type: none"> <li>1. Break the management VLAN connectivity between active and standby Cisco Nexus Cloud Services Platforms.</li> <li>2. The standby Cisco Nexus Cloud Services Platform will reboot twice to form high availability (HA) with the active Cisco Nexus Cloud Services Platform.</li> <li>3. Use the <b>show system redundancy status</b> command to verify if the primary and secondary Cisco Nexus Cloud Services Platforms are in high availability (HA) mode.</li> <li>4. Restore the management VLAN connectivity between active and standby Cisco Nexus Cloud Services Platforms.</li> </ol>
CSCuj82300	<p>Citrix NetScaler 1000V VSB cannot be deployed on the Cisco Nexus 1010.</p> <p>Workaround: Deploy the Citrix NetScaler 1000V on the Cisco Nexus 1010-X, Cisco Nexus 1110-S, or Cisco Nexus 1110-X.</p>
CSCuj77643	<p>Deploying or removing the Citrix NetScaler 1000V restarts the Cisco Nexus 1000V VSM, and the Cisco Virtual Security Gateway VSBs of all 4.2(x) Releases.</p>
CSCua80533	<p>Cisco NAM login fails and the VSB summary is lost after an upgrade.</p>

## Resolved Caveats

The following caveats are resolved in the Cisco Nexus Cloud Services Platform Release 4.2(1)SP1(6.2a). The bug ID links you to the Cisco Bug Search Tool.

**Table 3**      **Resolved Caveats**

Bug ID	Caveat Headline
CSCuo21209	When the Cisco Nexus Cloud Services Platform is rebooting, the system fails to respond with loading error message.
CSCuj83593	When a management interface receives a jumbo frame (with payloads greater than 1500 bytes), the Cisco Nexus VSA kernel moves to the panic mode.
CSCuo18096	When the system is in a warm standby mode, the copy running-config startup-config command fails and configuration settings cannot be saved.

## Related Documentation

This section lists the documents used with the Cisco Nexus Cloud Services Platform and available at the following URL:

[http://www.cisco.com/en/US/products/ps12752/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps12752/tsd_products_support_series_home.html)

### General Information

*Cisco Nexus Cloud Services Platform Release Notes*

### Install and Upgrade

*Cisco Nexus Cloud Services Platform Hardware Installation Guide*

*Cisco Nexus Cloud Services Platform Software Installation and Upgrade Guide*

*Regulatory Compliance and Safety Information for the Cisco Nexus 1000 Series*

*Cisco Nexus Cloud Services Platform Quick Start Guide*

### Configuration

*Cisco Nexus Cloud Services Platform Software Configuration Guide*

### Reference

*Cisco Nexus Cloud Services Platform Command Reference*

*Cisco Nexus Cloud Services Platform Compatibility Information Guide*

### Troubleshooting and Alerts

*Cisco Nexus Cloud Services Platform Troubleshooting Guide*

## Nexus 1000V

Cisco Nexus 1000V for VMware vSphere:

[http://www.cisco.com/en/US/products/ps9902/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps9902/tsd_products_support_series_home.html)

Cisco Nexus 1000V for Microsoft Hyper-V:

[https://www.cisco.com/en/US/products/ps13056/tsd\\_products\\_support\\_series\\_home.html](https://www.cisco.com/en/US/products/ps13056/tsd_products_support_series_home.html)

## Virtual Security Gateway

Cisco Virtual Security Gateway for Nexus 1000V Series Switch

## Virtual Network Management Center

Cisco Virtual Network Management Center

## Virtual Wide Area Application Services (vWAAS)

Cisco Virtual Wide Area Application Services (vWAAS)

## ASA 1000V Cloud Firewall

Cisco ASA 1000V Cloud Firewall

## Network Analysis Module

[http://www.cisco.com/en/US/products/sw/cscowork/ps5401/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/sw/cscowork/ps5401/tsd_products_support_series_home.html)

# Documentation Feedback

To provide technical feedback on this document or report an error or omission, please send your comments to:

- [nexus1k-docfeedback@cisco.com](mailto:nexus1k-docfeedback@cisco.com)

We appreciate your feedback.

# Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

Subscribe to the *What's New in Cisco Product Documentation* as a Really Simple Syndication (RSS) feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service and Cisco currently supports RSS Version 2.0.

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