



Compatibility Information for Cisco Nexus Cloud Services Platform for Release 4.2(1)SP1(6.2)

August 1, 2014

This document provides the following compatibility information for the Cisco Nexus Cloud Services Platform Release 4.2(1)SP1(6.2).

- [Cisco Nexus Cloud Services Platform Software Release Information for VSBs](#)
- [Minimum Release for Supported Features in the Cisco Nexus Cloud Services Platform](#)
- [Cisco Nexus Cloud Services Platform Weighting Matrix](#)
- [Product IDs of Cisco Nexus Cloud Services Platform product family](#)
- [Required Versions of Cisco Host Upgrade Utility \(HUU\) and UCS Server Software](#)

Information about Cisco Nexus Cloud Services Platform

For detailed information about the overview of the Cisco Nexus Cloud Services Platform product family and how to install and upgrade Cisco Nexus Cloud Services Platform, see the *Cisco Nexus Cloud Services Platform Software Installation and Upgrade Guide*.

For detailed information about how to configure the Cisco Nexus Cloud Services Platform product family, see the *Cisco Nexus Cloud Services Platform Software Configuration Guide*.

Cisco Nexus Cloud Services Platform Software Release Information for VSBs

[Table 1](#) shows the information about the various Virtual Service Blade (VSB) software included with the Cisco Nexus Cloud Services Platform and the minimum required version of the software.



Table 1 Cisco Nexus Cloud Services Platform Release Information for VSBs

Name of the VSB	Minimum Version Required
Cisco Nexus 1000V for VMware vSphere VSM	4.0(4)SV1(3d)
Cisco Nexus 1000V for Microsoft Hyper-V VSM	5.2(1)SM1(1.1)
Cisco Network Analysis Module	5.1
Cisco Virtual Security Gateway	4.2(1)VSG1(1)
Cisco Nexus VXLAN Gateway	4.2(1)SV2(2.1)



Note

Virtual Security Gateway VSBs are available in various form factors on the Cisco Nexus Cloud Services Platform. For more information on defining form factors, see the *Cisco Nexus Cloud Services Platform Software Configuration Guide*.

Minimum Release for Supported Features in the Cisco Nexus Cloud Services Platform

Features	Minimum Software Release
Cisco Nexus 1000V for VMware vSphere	4.2(1)SP1(1)
Cisco Nexus 1000V for Microsoft Hyper-V	4.2(1)SP1(6.1)
Cisco Nexus 1010-X	4.2(1)SP1(3)
Cisco Nexus 1010	4.2(1)SP1(1)
Cisco Nexus 1110-S and Cisco Nexus 1110-X	4.2(1)SP1(5.1a)
Cisco Network Analysis Module (NAM)	4.2(1)SP1(1)
Cisco Virtual Security Gateway (VSG)	4.2(1)SP1(3)
Cisco VXLAN Gateway	4.2(1)SP1(6.1)
Citrix NetScaler 1000V	4.2(1)SP1(6.2)

Cisco Nexus Cloud Services Platform Weighting Matrix

Table 2 lists the available resources required on Cisco Nexus Cloud Services Platform, excluding the mandatory resources required for N1110 or N1010 Manager.

Table 2 Available Resources on Cisco Nexus Cloud Services Platform Excluding the Mandatory Resources Required for N1110/N1010 Manager

Cisco Nexus Cloud Services Platforms	vCPUs/Cores	Memory (GB)	Dedicated Passthrough 1G Ports	Shared 1G Ports
Cisco Nexus 1010	10	12	0-4	2-6
Cisco Nexus 1010-X	10	44	0-4	2-6
Cisco Nexus 1110-S	14	28	0-4	2-6
Cisco Nexus 1110-X	14	60	0-4	2-6

All Cisco Nexus Cloud Services Platforms have 6 x 1G ports. An **1G port** can either be a shared port or a dedicated passthrough port.

In the Cisco Nexus Cloud Services Platform, you can use a maximum of 4 x 1G ports as dedicated passthrough ports, and a minimum of 2 x 1G ports for shared traffic. If no passthrough ports are utilized, you can use a maximum of to 6 x 1G ports for shared traffic.

For example, if 2 x 1G ports are allocated for dedicated passthrough, they cannot be used as shared 1G ports. Now the total available 1G shared ports is 4 (6-2 = 4).



Note

Dual 10G 1225 VIC card shipping on Cisco Nexus 1110-X platform is not enabled.

[Table 3](#) lists the resource consumption per Virtual Service Blade in the Cisco Nexus Cloud Services Platform. See the *Cisco Nexus Cloud Services Platform Software Configuration Guide* for more information on virtual service blades.

Table 3 Resource Consumption per VSB

Virtual Service Blade Name	vCPUs/Cores	Memory (GB)	Dedicated Passthrough 1G Ports
Cisco Nexus 1000V for VMware vSphere VSM, Release 4.2(1)SV2(2.1)	1	3	-
Cisco Nexus 1000V for VMware vSphere VSM, Release 4.2(1)SV2(1.1) and earlier	1	2	-
Cisco Nexus 1000V for Microsoft Hyper-V VSM, Release 5.2(1)SM1(1.1)	1	4	-
Cisco Network Analysis Module	2	2	-
Cisco Virtual Security Gateway (Large)	2	2	-
Cisco Virtual Security Gateway (Medium)	1	2	-
Cisco Nexus 1000V VXLAN Gateway	3	2	2
Citrix NetScaler 1000V (500 Mbps) (minimum)	2	2	1
Citrix NetScaler 1000V (1 Gbps) (minimum)	2	2	1

Table 3 **Resource Consumption per VSB**

Virtual Service Blade Name	vCPUs/Cores	Memory (GB)	Dedicated Passthrough 1G Ports
Citrix NetScaler 1000V (2 Gbps) (minimum)	3	4	2
Citrix NetScaler 1000V (500 Mbps) (recommended)	2	4	1
Citrix NetScaler 1000V (1 Gbps) (recommended)	3	8	1
Citrix NetScaler 1000V (2 Gbps) (recommended)	4	12	2

**Note**

- The Citrix NetScaler 1000V VSBs will be deployed on the Cisco Nexus Cloud Services Platform with 12MB RAM and 4vCPUs, by default. Based on the NetScaler 1000V licenses, you can reconfigure the VSBs to the resources mentioned in the table above.
- VSG (small) is not available on the Cisco Nexus Cloud Services Platform.
- You must use flexible networking (Type 5) to deploy the Cisco Nexus VXLAN Gateway and Citrix NetScaler 1000V VSBs on the Cisco Nexus Cloud Services Platform.

You can add the supported VSBs to the Cisco Nexus Cloud Services Platform, based on the resource consumption of each VSB as long as the VSBs total resource requirements do not exceed the available resource. See the following examples:

Example 1**Table 4** **Example 1**

	vCPUs/Cores	Memory (GB)	Dedicated Passthrough 1G Ports
The following row lists the available resources in Cisco Nexus Cloud Services Platform.			
Cisco Nexus 1110-X	14	60	4
The following rows lists the resources that will be used when you deploy the VSBs on CSP.			
Cisco Nexus 1000V VXLAN Gateway x 2	6	4	4
Cisco Virtual Security Gateway (Large) x 1	2	2	0
Cisco Network Analysis Module x 1	2	2	0

Table 4 **Example 1**

	vCPUs/Cores	Memory (GB)	Dedicated Passthrough 1G Ports
Cisco Nexus 1000V for Microsoft Hyper-V VSM, Release 5.2(1)SM1(1.1) x 2	2	8	0
Cisco Nexus 1000V for VMware vSphere VSM, Release 4.2(1)SV2(2.2) x 2	2	6	0
Available resources in Cisco Nexus Cloud Services Platform after the VSBs are deployed.	0	38	0

Example 2**Table 5** **Example 2**

	vCPUs/Cores	Memory (GB)	Dedicated Passthrough 1G Ports
The following row lists the available resources in Cisco Nexus Cloud Services Platform.			
Cisco Nexus 1010	10	12	4
The following rows list the resources that will be used when you deploy the VSBs on CSP.			
Cisco Nexus 1000V VXLAN Gateway x 1	3	2	2
Cisco Virtual Security Gateway (Large) x 1	2	2	0
Cisco Nexus 1000V for Microsoft Hyper-V VSM, Release 5.2(1)SM1(1.1) x 1	1	4	0
Cisco Nexus 1000V for VMware vSphere VSM, Release 4.2(1)SV2(2.2) x 1	1	3	0
Available resources in Cisco Nexus Cloud Services Platform after the VSBs are deployed.	3	1	2

Product IDs of Cisco Nexus Cloud Services Platform product family

Table 6 shows the product IDs of the Cisco Nexus Cloud Services Platform product family.

Table 6 Product IDs of Cisco Nexus Cloud Services Platform Product Family

Cisco Nexus Cloud Services Platforms	Product IDs
Cisco Nexus 1010	N1K-C1010
Cisco Nexus 1010-X	N1K-C1010-X
Cisco Nexus 1110-S	N1K-1110-S
Cisco Nexus 1110-X	N1K-1110-X

Required Versions of Cisco Host Upgrade Utility (HUU) and UCS Server Software

Table 7 shows the recommended Cisco Host Upgrade Utility (HUU) versions required to update CIMC, BIOS and other hardware components, and the UCS server software on the Cisco Nexus Cloud Services Platform hardware.

The Cisco Host Upgrade Utility (HUU) is a tool that you can use to upgrade the firmware on one or multiple Cisco UCS C-Series servers. The HUU detects the current version of all required hardware components you have already installed, and guides you to upgrade them to the latest version.

Table 7 Required CIMC versions on Cisco Nexus Cloud Services Platform

Cisco Nexus Cloud Services Platform Hardware	Recommended HUU Version	UCS Server Software version
1010	Cisco Host Upgrade Utility 1.4(3u)	UCS C200 M2 Rack-Mount
1010-S		
1110-S	Cisco Host Upgrade Utility 1.5(3)2	UCS C220M3 Rack-Mount
1110-X		



Note

It is a recommended Cisco best practice to upgrade the firmware using the **Cisco Host Upgrade Utility**. Failing to do so might result in network setup failure or system reboots. When using the HUU upgrade menu, choose the option to upgrade the CIMC, BIOS, and all other components of the hardware. For detailed information about upgrading to the latest firmware release, see the *Cisco Nexus Cloud Services Platform Software Installation and Upgrade Guide*.

Related Documentation

This section lists the documents used with the Cisco Nexus Cloud Services Platform and available on [Cisco.com](http://www.cisco.com) at the following URL:

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 Guide

Cisco Nexus Cloud Services Platform Software Configuration Guide

Reference Guides

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 Documentation

For the Cisco Nexus 1000V for VMware vSphere Documentation:

http://www.cisco.com/en/US/products/ps9902/tsd_products_support_series_home.html

For the Cisco Nexus 1000V for Microsoft Hyper-V Documentation:

https://www.cisco.com/en/US/products/ps13056/tsd_products_support_series_home.html

Virtual Security Gateway Documentation

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 Documentation

http://www.cisco.com/en/US/products/sw/cscowork/ps5401/tsd_products_support_series_home.html

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.

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: www.cisco.com/go/trademarks. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)