Compatibility Information for Cisco Nexus Cloud Services Platform for Release 5.2(1)SP1(7.1)

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This document provides the following compatibility information for the Cisco Nexus Cloud Services Platform, Release 5.2(1)SP1(7.1):

- 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
- Cisco Nexus Cloud Services Platform Product IDs
- Required Versions of Cisco Host Upgrade Utility and Cisco UCS Server Software

Cisco Nexus Cloud Services Platform Software Release Information for VSBs

Table 1 lists the Virtual Service Blade (VSB) software included with the Cisco Nexus Cloud Services Platform, and the minimum required software version.

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 Nexus 1000V for KVM	5.2(1)SK1(2.1)
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)

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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

Table 2   Minimum Release for Supported Features

Feature	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 1000V for KVM	4.2(1)SP1(6.2)
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	4.2(1)SP1(3)
Cisco Nexus 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 3 lists the available resources required on the Cisco Nexus Cloud Services Platform, excluding the mandatory resources required for N1110 or N1010 Manager.

Table 3   Available Resources on the Cisco Nexus Cloud Services Platform, Excluding the Mandatory Resources Required for N1110/N1010 Manager

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

Note • All Cisco Nexus Cloud Services Platforms have 6 x 1 G ports. A 1 G port can be a shared port or a dedicated pass-through port.

- On a Cisco Nexus Cloud Services Platform, you can use a maximum of 4 x 1 G ports as dedicated pass-through ports, and a minimum of 2 x 1 G ports for shared traffic. If no pass-through ports are used, you can use a maximum of 6 x 1 G ports for shared traffic. For example, if 2 x 1 G ports are used as dedicated pass-through ports, they cannot be used as shared 1 G ports. Now the total available 1 G shared ports is 4 (6 – 2 = 4).

- The Cisco Nexus 1110-X has two additional ports enabled for the 10 G interface. For more information about enabling the 10 G card on the Cisco Nexus Cloud Services Platform, see the *Cisco Nexus Cloud Services Platform Software Configuration Guide*.

Table 4 lists the resource consumption per VSB on the Cisco Nexus Cloud Services Platform. See the *Cisco Nexus Cloud Services Platform Software Configuration Guide* for more information on VSBs.

Table 4   Resource Consumption per VSB

Virtual Service Blade Name	vCPUs/Cores	Memory (GB)	Dedicated Pass-through 1 G Ports
Cisco Nexus 1000V for VMware vSphere VSM, Release 5.2(1)SV3(1.x)	2	4	—
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 Nexus 1000V for KVM, Release 5.2(1)SK1(2.1)	2	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
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
Citrix NetScaler 1000V (4 Gbps) (recommended)	5	16	—
Citrix NetScaler 1000V (5 Gbps) (recommended)	5	16	—

Note VSG (small) is not available 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 resources. See the following examples.

Example 1

Table 5   Example 1

	vCPUs/Cores	Memory (GB)	Dedicated Pass-through 1 G Ports
The following row lists the available resources on the Cisco Nexus Cloud Services Platform			
Cisco Nexus 1110-X	14	60	4
The following rows list the resources that are used when you deploy the VSBs on the Cisco Nexus Cloud Services Platform			
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
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 on the Cisco Nexus Cloud Services Platform after the VSBs are deployed	0	38	0

Example 2

Table 6   Example 2

	vCPUs/Cores	Memory (GB)	Dedicated Pass-through 1 G Ports
The following row lists the available resources on the Cisco Nexus Cloud Services Platform			
Cisco Nexus 1010	10	12	4
The following rows list the resources that are used when you deploy the VSBs on the Cisco Nexus Cloud Services Platform			
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 on the Cisco Nexus Cloud Services Platform after the VSBs are deployed	3	1	2

Cisco Nexus Cloud Services Platform Product IDs

Table 7 shows the product IDs of the Cisco Nexus Cloud Services Platform product family.

Table 7   Product IDs

Cisco Nexus Cloud Services Platform	Product ID
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 and Cisco UCS Server Software

Table 8 shows the Cisco Host Upgrade Utility (HUU) versions required to update CIMC, BIOS, and other hardware components, and the Cisco UCS server software on the Cisco Nexus Cloud Services Platform hardware.

The Cisco 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 and guides you to upgrade them.

Table 8   Required CIMC Versions on the 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(4e)	UCS C220M3 Rack-Mount
1110-X		

Note   We recommend that you upgrade the firmware by using the Cisco Host Upgrade Utility. Failure 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 more information, 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 at the following URL:

http://www.cisco.com/c/en/us/support/switches/nexus-11 00-series-cloud-services-platforms/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 Cloud Services Platform

Configuration

Cisco Nexus Cloud Services Platform Software Configuration Guide

Reference

Cisco Nexus Cloud Services Platform Command Reference

Cisco Nexus Cloud Services Platform Compatibility Information

Troubleshooting and Alerts

Cisco Nexus Cloud Services Platform Troubleshooting Guide

Cisco Nexus 1000V for VMware vSphere

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

Cisco Nexus 1000V for Microsoft Hyper-V

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

Cisco Virtual Security Gateway

http://www.cisco.com/c/en/us/support/switches/virtual-security-gateway/tsd-products-support-series-home.html

Cisco Virtual Network Management Center

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

Cisco Virtual Wide Area Application Services (vWAAS)

http://www.cisco.com/c/en/us/support/routers/virtual-wide-area-application-services-vwaas/tsd-products-support-series-home.html

Cisco ASA 1000V Cloud Firewall

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

Cisco Prime Network Analysis Module Software

http://www.cisco.com/c/en/us/support/cloud-systems-management/prime-network-analysis-module-software/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/c/en/us/td/docs/general/whatsnew/whatsnew.html.

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