



Verified Scalability Guide for Cisco Nexus 1000V InterCloud Release 5.2(1)IC1(1.2)

October 14, 2013

Release 5.2(1)IC1(1.2)

OL-30320-01

This document describes the verified configuration limits for Cisco Nexus 1000V InterCloud software. The following is the change history for this document.

Part Number	Revision	Date	Description
OL-30320-01	AO	October 14, 2013	Created Verified Scalability Guide for Release 5.2(1)IC1(1.2)

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Introduction

Hybrid cloud is an interaction between private and public clouds where private clouds extend to public clouds and utilize public cloud resources in a secure and scalable way. Cisco Nexus 1000V InterCloud provides the architectural foundation for secure hybrid clouds, allowing enterprises to easily and securely connect the enterprise data center to the public cloud. With a hybrid cloud, enterprises can combine the benefits of public and private clouds. Cisco Nexus 1000V InterCloud provides the following benefits:



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- Provides a highly secure Layer 2 connectivity between the enterprise data center and the public cloud.
- Provides a single pane of management across enterprise data centers and public clouds through Cisco Prime Network Services Controller.
- Enables use of same network policies and services across private and public clouds.

For more information about how to install and configure the Cisco Nexus 1000V InterCloud, see the *Cisco Nexus 1000V InterCloud Installation Guide*.

Configuration Limits for Cisco Nexus 1000V InterCloud

This section provides information on the supported configuration limits for the Cisco Nexus 1000V InterCloud components.

Table 1 lists the supported configuration limits for the Cisco Nexus 1000V InterCloud components.

Table 1 Supported configuration limits for Cisco Nexus 1000V InterCloud components

Cisco Nexus 1000V InterCloud components	Supported configuration limits
Number of InterCloud Links	16
Number of VMs in the cloud per InterCloud Link	64
Number of vNICs per VM in the cloud	8
Number of vNICs per InterCloud Link	128
Total number of vNICs per Cisco Nexus 1000V InterCloud VSM	400



Note

InterCloud Extender and InterCloud Switch together form an InterCloud Link. They can be in standalone or in High Availability mode.

Table 2 lists the supported configuration limits for a single Cisco Nexus 1000V InterCloud deployment.

Table 2 Supported configuration limits for a Cisco Nexus 1000V InterCloud deployment

Components	Supported Limits for a single Cisco Nexus 1000V InterCloud Deployment
Cloud Virtual Supervisor Module	The Cisco Nexus 1000V InterCloud VSMs can be placed in different physical data centers. Note that the previous restrictions requiring the active-standby VSMs in a single physical data center do not apply anymore.
Active VLANs across all InterCloud Links	128
vEthernet interfaces per port profile	64
Maximum latency between Cisco Nexus 1000V InterCloud VSMs and InterCloud Switch/Extender	100 ms

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Components	Supported Limits for a single Cisco Nexus 1000V InterCloud Deployment
Port profiles	72
vEthernet interfaces per Cisco Nexus 1000V InterCloud VSM	400
ACL	8
ACEs per ACL	64
ACL instances	256 per DVS/ 32 per InterCloud Link
MultiCast groups	16 per DVS / 4 per InterCloud Link
NetFlow	32 monitors per 300 interfaces

Related Documentation

This section lists the documents used with the Cisco Nexus 1000V InterCloud and available on [Cisco.com](http://www.cisco.com) at the following URL:

http://www.cisco.com/en/US/products/ps12904/tsd_products_support_series_home.html

General Information

Cisco Nexus 1000V InterCloud Release Notes

Install and Upgrade

Cisco Nexus 1000V InterCloud Installation Guide

Configuration Guides

Cisco Nexus 1000V InterCloud License Configuration Guide

Cisco Nexus 1000V InterCloud High Availability and Redundancy Configuration Guide

Cisco Nexus 1000V InterCloud Interface Configuration Guide

Cisco Nexus 1000V InterCloud Layer2 Configuration Guide

Cisco Nexus 1000V InterCloud Port Profile Configuration Guide

Cisco Nexus 1000V InterCloud Security Configuration Guide

Cisco Nexus 1000V InterCloud System Management Configuration Guide

Reference Guides

Cisco Nexus 1000V InterCloud Command Reference

Cisco Nexus 1000V MIB Quick Reference

Cisco Nexus 1000V InterCloud Resource Availability Reference

Troubleshooting, Password Recovery, System Messages Guides

Cisco Nexus 1000V Password Recovery Guide

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Cisco Cisco Nexus 1000V InterCloud NX-OS System Messages Reference

Cisco Prime Network Services Controller Documentation

Cisco Prime Network Services Controller Documentation

Cisco Nexus 1000V Documentation

Cisco Nexus 1000V for VMware vSphere Documentation

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>

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