



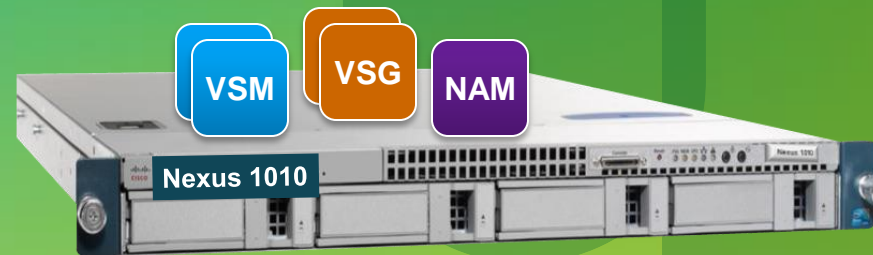
# Nexus 1000 Product Family

## What's New?

- Nexus 1000V, 1.4a
- Nexus 1010, 1.3
- VSG/NMC, 1.2

Public

August 2011, v2a



# Content

- **New Releases** (CCO posting: July 30, 2011)
  - Nexus 1000V, Release 1.4a
  - Nexus 1010, Release 1.3
  - Virtual Security Gateway, Release 1.2
  - Virtual Network Management Center, Release 1.2.1
  - SW Download, Documentation & Screencasts
- **Solutions**
  - DIGs & CVDs
- **Resources**
  - Deployment Guides & White Papers
  - Webinars

# Nexus 1000V – Release 1.4a

## CCO posted name: 4.2(1)SV1(4a)

Feature	Description / Benefit
Supports for vSphere 5 and stateless ESXi	Supporting VMware's latest Cloud Infrastructure
Virtual Workload Migration (Between Datacenters)	Enabling VM mobility between datacenters with Cisco Design Consideration Guide
vPath 1.0 enhancements	Additional TCP statefulness, TCP reset
ISSU Upgrade from 1.4 to 1.4a	Similar to other Nexus platform upgrades
VSM backup/restore	Provide more robust VSM support
vPC-HM Enhancements	Easier MAC-pinning and backup subgroup specification
Unknown unicast flood blocking	Prevents floods
Dynamic Port Mgmt b/w server admin and network admin	Automatically manage vCenter vDS ports, especially for VDI/VXI deployments

# Nexus 1010 – Release 1.3

CCO posted name: 4.2(1)SP1(3)

Feature	Description / Benefit
Now up to 6 Virtual Service Blades (VSBs)	Can now host VSMs, VSGs, and NAM* in various combinations; for example: <ul style="list-style-type: none"><li>• Up to 6 VSMs</li><li>• Up to 6 VSGs</li></ul>
VSG 1.2 as a VSB on 1010	Decouples VSG VM from the production workload environment
Virtual service blade export/import	Simplifies management
VSM backup/restore	Enables DR planning
Support for NAM v5.1	Diagnose VM-to-VM traffic
Multi-Gb/s throughput	Greater performance; reduced packet loss
Redundant power supply	Order w/ 1010 or as FRU
Long-distance (DC-to-DC) vMotion support	Span up to 100 km to another DC for load balancing and/or DR

# VSG – Release 1.2

CCO posted name: 4.2(1)VSG1(2)

Feature	Description / Benefit
Expanded VM-attribute support for policy controls	<ul style="list-style-type: none"><li>• Guest-OS Hostname (e.g. for firewall enforcement based on VDI PC hostname)</li><li>• ResourcePool folder (e.g. for quarantining a mis-behaving VM)</li></ul>
VSG as a virtual blade on Nexus 1010	<ul style="list-style-type: none"><li>• Ease of deployment ( Network admins don't have to rely on Server admins to deploy VSG)</li></ul>
vPath Ping (between VSG and VEM)	<ul style="list-style-type: none"><li>• Ease of troubleshooting</li></ul>
TCP reset policy action for rules	<ul style="list-style-type: none"><li>• Reset action, in addition to permit/deny/log</li></ul>
Long-distance (DC-to-DC) vMotion support	<ul style="list-style-type: none"><li>• Enable DRS (Dynamic Resource Scheduling) across distributed data centers</li></ul>

# VNMC – Release 1.2.1

## CCO posted name: VNMC 1.2.1b

Feature	Description / Benefit
Single-page policy editor	<ul style="list-style-type: none"><li>• Author entire security profile from one page</li></ul>
Expanded VM-attribute support for policy controls	<ul style="list-style-type: none"><li>• Guest-OS Hostname (e.g. for firewall enforcement based on VDI PC hostname)</li><li>• ResourcePool folder (e.g. for quarantining a mis-behaving VM)</li></ul>
TCP reset policy action for rules	<ul style="list-style-type: none"><li>• Reset action, in addition to permit/deny/log</li></ul>
Per-tenant dashboard	<ul style="list-style-type: none"><li>• Show all the tenant VSGs in one window</li></ul>
Ability to export policy objects into a pdf/xls document	<ul style="list-style-type: none"><li>• Ease of operation. This is in addition to xml (text) export</li></ul>
Auto-populate of attribute values during security policy rule creation	<ul style="list-style-type: none"><li>• Ease of policy configuration</li></ul>
Configurable VNMC UI Time-out for login	<ul style="list-style-type: none"><li>• Ease of operation</li></ul>
Fault drill-down for VSG	<ul style="list-style-type: none"><li>• Ease of troubleshooting (Event, Fault &amp; Alarm views for error-handling)</li></ul>
Additional Usability Enhancements	<ul style="list-style-type: none"><li>• Helpful tool-tips</li><li>• Multi-selection tables (to choose from multiple entries)</li><li>• Sorting option for tables</li><li>• Improved use of screen real-estate etc.</li></ul>

# CCO Links

## Software, Documentation & Screencasts

Product	CCO Links
Nexus 1000V <a href="http://www.cisco.com/go/1000v">www.cisco.com/go/1000v</a>	<ul style="list-style-type: none"><li>• <a href="#">SW Download</a></li><li>• <a href="#">Documentation</a></li><li>• <a href="#">Screencasts</a></li></ul>
Nexus 1010 <a href="http://www.cisco.com/go/1010">www.cisco.com/go/1010</a>	<ul style="list-style-type: none"><li>• <a href="#">SW Download</a></li><li>• <a href="#">Documentation</a></li></ul>
Virtual Security Gateway (VSG) <a href="http://www.cisco.com/go/vsg">www.cisco.com/go/vsg</a>	<ul style="list-style-type: none"><li>• <a href="#">SW Download</a></li><li>• <a href="#">Documentation</a></li><li>• <a href="#">Screencasts</a></li></ul>
Virtual Network Management Center (VNMC) <a href="http://www.cisco.com/go/vnmc">www.cisco.com/go/vnmc</a>	<ul style="list-style-type: none"><li>• <a href="#">SW Download</a></li><li>• <a href="#">Documentation</a></li><li>• <a href="#">Screencasts</a></li></ul>

# Solutions

- Design Guides
- Reference Implementations
- Design and Implementation Guide (DIG)
- Cisco Validated Design (CVD)





# Cisco Reference Solutions

Solution	Nexus 1000V	Nexus 1010	Virtual Security Gateway
vBlock	✓		
FlexPOD	✓	✓	
Virtual Desktop	✓	Implicit Support	✓
Virtual Multi-tenant DC (VMDC)	✓	Implicit support	
Long-distance vMotion	✓	Implicit support	✓
PCI 2.0	✓	Implicit support	✓

# Reference Solutions

## *With Nexus 1000V, Nexus 1010 and VSG*

- [vBlock with Nexus 1000V](#)
- [FlexPOD with Nexus 1000V and Nexus 1010](#)
- [Virtual Multi-tenant Data Center with Nexus 1000V](#)
- Virtual Desktop
  - [1000V and VMware View](#)
  - [1000V and Citrix XenDesktop](#)
  - [1000V and VSG in VXI Reference Architecture](#)
- Virtual Workload Mobility (aka Long-distance vMotion)
  - [Cisco, VMware and EMC \(with 1000V and VSG\)](#)
  - [Cisco, VMware and NetApp \(with 1000V and VSG\)](#)
- [PCI 2.0 with Nexus 1000V and VSG](#)

# Resources

- Deployment Guides & White Papers
- Public Webinars



# N1K Public Resources

- CCO Links

1000V: [www.cisco.com/go/1000v](http://www.cisco.com/go/1000v)

1010: [www.cisco.com/go/1010](http://www.cisco.com/go/1010)

VSG: [www.cisco.com/go/vsg](http://www.cisco.com/go/vsg)

VNMC: [www.cisco.com/go/vnmc](http://www.cisco.com/go/vnmc)

vWAAS: [www.cisco.com/go/waas](http://www.cisco.com/go/waas)

NAM on 1010: <http://www.cisco.com/en/US/products/ps10846/index.html> (or [www.cisco.com/go/nam](http://www.cisco.com/go/nam))

- My Cisco Community: [www.cisco.com/go/1000vcommunity](http://www.cisco.com/go/1000vcommunity)

- Deployment Guides

[Nexus 1000V Deployment Guide](#)

[Nexus 1000V on UCS – Best Practices](#)

[Nexus 1010 Deployment Guide](#)

[VSG Deployment Guide](#)

- White papers:

[Nexus 1000V and vCloud Director](#)

[N1K on UCS Best Practices](#)

[Nexus 1000V QoS White paper \(draft\)](#)

[VSG and vCloud Director \(draft\)](#)

[vWAAS Technical Overview, vWAAS for Cloud-ready WAN Optimization](#)

# N1K Public Webcasts

Date	Business Track Topics	Webinar	Preso	Q&A
3/22	Nexus 1000V/1010 Overview and Update	<a href="#">Play</a>	<a href="#">PDF</a>	<a href="#">PDF</a>
4/05	Virtual Network Services: Virtual Service Datapath (vPath), Network Analysis Module (NAM), Virtual Application Acceleration (vWAAS)	<a href="#">Play</a>	<a href="#">PDF</a>	<a href="#">PDF</a>
4/19	Virtual Security Gateway (VSG) Overview  (Installation Videos: <a href="#">Link</a> )	<a href="#">Play</a>	<a href="#">PDF</a>	<a href="#">PDF</a>
5/03	Journey to the Cloud w/ N1KV: vCloud Director & Long Distance vMotion	<a href="#">Play</a>	<a href="#">PDF</a>	<a href="#">PDF</a>
5/17	Secure Virtual Desktop with Nexus 1000V & VSG	<a href="#">Play</a>	<a href="#">PDF</a>	<a href="#">PDF</a>

Date	Technical Track Topics	Webinar	Preso	Q&A
3/29	Nexus 1000V v1.4 Features & Install Overview  (Installation Screencasts <a href="#">Link</a> )	<a href="#">Play</a>	<a href="#">PDF</a>	<a href="#">PDF</a>
4/12	Nexus 1010 Overview & Best Practices	<a href="#">Play</a>	<a href="#">PDF</a>	<a href="#">PDF</a>
4/26	Virtual Security Gateway (VSG) Technical Overview	<a href="#">Play</a>	<a href="#">PDF</a>	<a href="#">PDF</a>
5/10	Nexus 1000V Key Features Overview	<a href="#">Play</a>	<a href="#">PDF</a>	<a href="#">PDF</a>
5/24	Nexus 1000V Troubleshooting	<a href="#">Play</a>	<a href="#">PDF</a>	<a href="#">PDF</a>
7/27	Long Distance vMotion with Nexus 1000V and VSG	<a href="#">Play</a>	<a href="#">PDF</a>	
8/10	PCI Reference Architecture with Nexus 1000V and Virtual Security Gateway	<a href="#">Play</a>	<a href="#">PDF</a>	

Webinar Link: [www.cisco.com/go/1000vcommunity](http://www.cisco.com/go/1000vcommunity)

# Additional N1K Public Links

- N1K Download and 60-day Eval: [www.cisco.com/go/1000vdownload](http://www.cisco.com/go/1000vdownload)
- N1K Product Page: [www.cisco.com/go/1000v](http://www.cisco.com/go/1000v)
- N1K Community: [www.cisco.com/go/1000vcommunity](http://www.cisco.com/go/1000vcommunity)
- N1K Twitter [www.twitter.com/official\\_1000V](http://www.twitter.com/official_1000V)
- N1K Webinars: [www.cisco.com/go/1000vcommunity](http://www.cisco.com/go/1000vcommunity)
- N1K Case Studies: [www.tinyurl.com/n1k-casestudy](http://www.tinyurl.com/n1k-casestudy)
- N1K Whitepapers [www.tinyurl.com/n1k-whitepaper](http://www.tinyurl.com/n1k-whitepaper)
- N1K Deployment Guide: [www.tinyurl.com/N1k-Deploy-Guide](http://www.tinyurl.com/N1k-Deploy-Guide)
- VXI Reference Implementation: [www.tinyurl.com/vxiconfigguide](http://www.tinyurl.com/vxiconfigguide)
- N1K on UCS Best Practices: [www.tinyurl.com/N1k-On-UCS-Deploy-Guide](http://www.tinyurl.com/N1k-On-UCS-Deploy-Guide)

Thank you.

