

# Cisco Data Center Network Manager 5.1

PB631923

Cisco® Data Center Network Manager (DCNM) is a Cisco management solution that increases overall data center infrastructure uptime and reliability, improving business continuity. Focused on supporting efficient operations and management of the data center network, Cisco DCNM provides a robust framework and rich feature set that meets the routing, switching, and storage administration needs of present and future data centers. In particular, Cisco DCNM automates the provisioning process, proactively monitors the SAN and LAN by detecting performance degradation, streamlines the diagnosis of dysfunctional network elements, and secures the network. Offering an exceptional level of visibility and control through a single pane to Cisco Nexus® and Cisco MDS 9000 Family products, Cisco DCNM is the Cisco recommended solution for mission-critical data centers.

## New Features

Cisco DCNM 5.1 is a new software release of Cisco DCNM to support new Cisco Nexus family of switches and enhancements in Cisco NX-OS Software Release 5.1 across the Cisco Nexus Family of data center switches.

New features include:

- Comprehensive Cisco FabricPath provisioning and operational monitoring
  - One-touch Cisco FabricPatch domain turn up
  - Wizard-based control plane and Cisco FabricPatch topology settings
  - Cisco FabricPath link-state awareness
  - Multipath traffic distribution: unicast, multicast, and broadcast visualization
  - Reachability and latency between source and destination nodes
  - Threshold crossing alerts for fabric hotspot identification
- Template management enhancements
  - Template based configuration for automating the provisioning process with built-in scheduling and roll back capabilities
  - Prebuilt templates for Cisco FabricPath, virtual PortChannels (vPCs), and virtual device contexts (VDCs)
  - Capability to create custom templates by using an existing template as a starting point
- Enhancements in managing Cisco Nexus 5000 Series Switches
  - PortChannel, port security, and private VLAN (PVLAN) enhancements on the Cisco Nexus 5000 Series Switches
  - Topology enhancements to support Layer 2 VSAN overlays
- Alert forwarding as emails and text messages
- Contextual integration and co-residency with Cisco Fabric Manager 5.0
- Cisco DCNM certified on Cisco Nexus 1010 Virtual Services Appliance, providing customers flexibility in deployment options

Cisco DCNM supports the entire Cisco Nexus Family of hardware platforms:

- Cisco Nexus 7000 Series Switches (Cisco Nexus 7000 10-Slot and 18-Slot Switches)
- Cisco Nexus 5000 Series Switches (Cisco Nexus 5020 and 5010 Switches)
- Cisco Nexus 4000 Series Switches

- Cisco Nexus 2000 Series Fabric Extenders
- Cisco Nexus 1000V Series Switches and Cisco Nexus 1010 Virtual Service Appliance

For more information about Cisco NX-OS Software releases supported on these platforms, please refer to the Cisco DCNM 5.1 table of supported devices at <http://www.cisco.com/go/dcnm>.

## Upgrade Paths

Customers running prior versions of Cisco DCNM (Releases 4.0 or 5.0.0) with an active Software Application Support plus Upgrades (SASU) contract can upgrade to Cisco DCNM 5.1 at no charge by downloading the software from the Cisco Software Center, accessible at <http://www.cisco.com/go/dcnm>. The current Cisco DCNM licenses will continue to work with Cisco DCNM 5.1.

## Availability

Cisco DCNM 5.1 can be ordered starting October 31, 2010, and will start shipping in November 2010.

## Ordering Information

Table 1 presents ordering information. To place an order, visit the Cisco Ordering homepage. To download software, visit the Cisco Software Center, accessible at <http://www.cisco.com/go/dcnm>.

**Table 1.** Ordering Information

Description	Part Number
DCNM Enterprise license for one Nexus 7000 device (SW + License)	DCNM-N7K-K9
DCNM Enterprise license for one Nexus 7000 device (License only)	DCNM-N7K-PAK=
DCNM Enterprise license for 100 Nexus access devices (Nexus 1000 series, 2000 series, 4000 series, 5000 series only)	DCNM-NXACC-100-K9
DCNM Enterprise license for 250 Nexus access devices (Nexus 1000 series, 2000 series, 4000 series, 5000 series only)	DCNM-NXACC-250-K9

## Service and Support

Cisco DCNM is supported through SASU. For information about the correct part number to order, please refer to Table 2.

**Table 2.** Service Ordering Information

Description	Part Number	Service Part Number
DCNM Enterprise license for one Nexus 7000 device (SW + License)	DCNM-N7K-K9	CON-SAU-N7DCNM
DCNM Enterprise license for one Nexus 7000 device (License only)	DCNM-N7K-PAK=	CON-SAU-N7PAK
DCNM Enterprise license for 100 Nexus access devices (Nexus 1000 series, 2000 series, 4000 series, 5000 series only)	DCNM-NXACC-100-K9	N.A
DCNM Enterprise license for 250 Nexus access devices (Nexus 1000 series, 2000 series, 4000 series, 5000 series only)	DCNM-NXACC-250-K9	N.A

## For More Information

For more information about the Cisco DCNM software, send an email to [ask-dcnm@cisco.com](mailto:ask-dcnm@cisco.com), visit the product homepage at <http://www.cisco.com/go/dcnm>, or contact your Cisco local account representative.



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Cisco Systems, Inc.  
San Jose, CA

Asia Pacific Headquarters  
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