

Cisco Data Center Network Manager 5.2

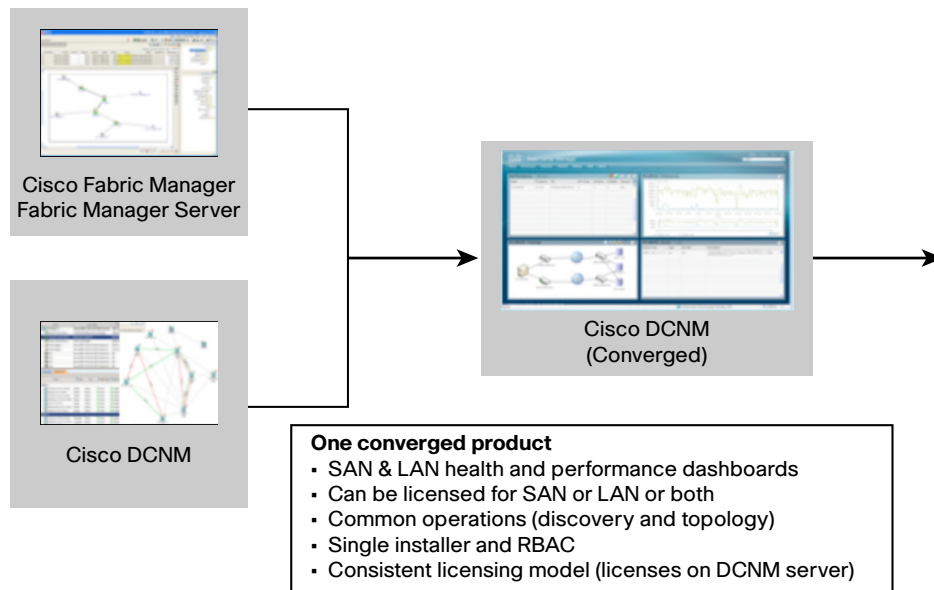


New Cisco Data Center Network Manager

Modern data centers are becoming increasingly complex and massive. Proliferation of new technologies such as virtualization is adding yet another level of complexity while enabling higher workloads to be placed on the network. Innovations such as Cisco® Unified Fabric unify storage and data networking to deliver convergence, scalability, and intelligence with reduced total cost of ownership (TCO) and faster return on investment (ROI). IT departments today are challenged to look beyond traditional silos of networking and storage to manage this converged, virtualized data center. Meeting this challenge calls for unification of the management plane to enable holistic management of the data center infrastructure.

Recognizing the need to support this convergence in management, Cisco is merging two best-in-class management solutions, Cisco Fabric Manager and Cisco Data Center Network Manager (DCNM) for LAN, into one unified product called Cisco DCNM (Figure 1).

Figure 1 The New Cisco DCNM



Cisco DCNM can be licensed to manage a combination of SAN and LAN environments. Administrators still maintain control and segmentation through role-based access control (RBAC), now with single-pane visibility across the network and storage access infrastructure. Depending on licensing, different features for management of SAN and LAN infrastructure are available.

Features of Cisco DCNM

The new converged Cisco DCNM increases overall data center infrastructure uptime and reliability. Focused on supporting efficient operations and management of virtual machine-aware fabrics, Cisco DCNM provides a robust framework and comprehensive feature set that meets the routing, switching, and storage administration needs of present and future virtualized data centers. Cisco DCNM provides outstanding visibility into dependencies that exist between virtualized computing, networking, and storage infrastructures through features such as VMpath and virtual machine-aware topology views. Cisco DCNM streamlines the provisioning of the unified fabric and proactively monitors the LAN and SAN components. Offering an exceptional level of visibility and control through a single management pane for the Cisco Nexus®, Cisco Unified Computing System™, and Cisco MDS 9000 Family products, Cisco DCNM is the Cisco recommended solution for managing mission-critical data centers.

Who Should Migrate to Cisco DCNM?

Organizations that are currently using Cisco DCNM 5.0 or Cisco Fabric Manager Server (FMS) 5.0 are encouraged to migrate to the new converged Cisco DCNM 5.2. The new Cisco DCNM 5.2 is intended to be a transparent upgrade for customers who are using either of the two existing products. Cisco supports an inline upgrade from your current installation to get to Cisco DCNM 5.2.

Support for Existing Cisco FMS Deployments

Cisco Fabric Manager customers who have their Cisco FMS licenses deployed on Cisco MDS 9000 Family switches can upgrade to Cisco DCNM 5.2 without disturbing any of their existing licenses. All currently installed Cisco FMS licenses will be automatically retained and supported by Cisco DCNM 5.2. From now on, Cisco DCNM is the product that will be maintained to manage new technologies and products in the data center networking domain. Cisco Fabric Manager and FMS will continue to be sold and supported by Cisco, but they will be transitioned into a sustaining mode, meaning that they will receive only bug fixes and critical patches, but no new features or new hardware support.



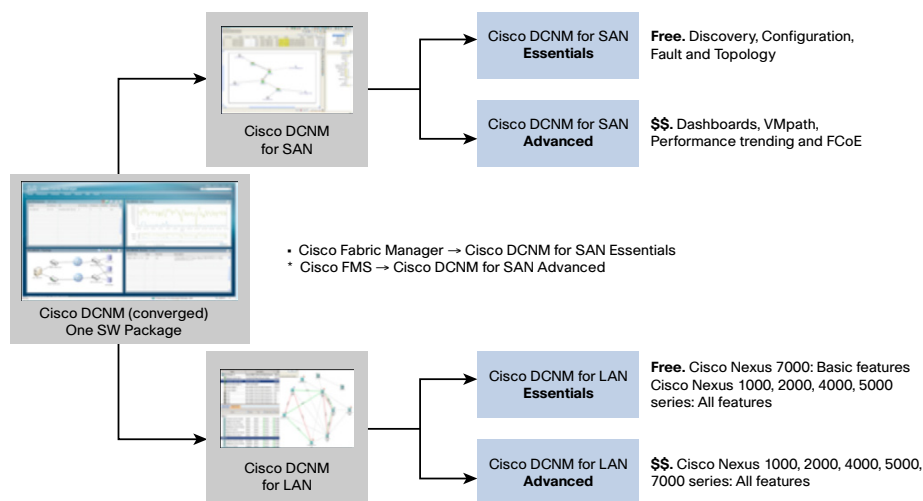
Ordering Options

Cisco DCNM is available with multiple licensing options for a wide range of data center deployments (Figure 2). Cisco DCNM can be licensed for SAN (Cisco DCNM for SAN) and LAN (Cisco DCNM for LAN) environments separately. An important change in the licensing model with Cisco DCNM (compared to Cisco Fabric Manager) is that licenses are hosted on the management server and not the switch. All currently installed Cisco FMS licenses will be automatically retained and supported by Cisco DCNM 5.2 (see the Q&A document at <http://www.cisco.com/go/dcnm>)

Furthermore, two types of Cisco DCNM for SAN and DCNM for LAN licenses are available: Essentials Edition and Advanced Edition. Cisco DCNM for SAN Essentials Edition is included with every Cisco MDS 9000 Family hardware purchase at no charge and can be downloaded from <http://www.cisco.com/go/dcnm>. Cisco DCNM for LAN Essentials Edition is included with every Cisco Nexus Family hardware purchase at no charge and can be downloaded from <http://www.cisco.com/go/dcnm>.

Cisco DCNM for SAN Advanced Edition adds capabilities such as performance monitoring and trending, virtual machine-aware path analysis, event forwarding, and federation across multiple data centers and can be licensed using specific part numbers (see the data sheet at <http://www.cisco.com/go/dcnm>).

Figure 2 Cisco DCNM Licensing Options



Cisco DCNM for LAN Advanced Edition adds capabilities such as configuration management, image management, virtual device contexts (VDCs), and Cisco FabricPath and can be licensed using specific part numbers (see the data sheet at <http://www.cisco.com/go/dcnm>).

Benefits of Cisco DCNM

Cisco DCNM is the recommended solution for managing Cisco data center networking (SAN and LAN) infrastructure. The main benefits of using Cisco DCNM to operate and manage a virtualized data center are:

- Simplified operational management of virtualized data centers
 - Proactive monitoring and problem diagnosis; less time needed to troubleshoot problems
 - Performance and capacity monitoring and trending for SAN and LAN infrastructure
 - VMpath analytics and troubleshooting
- Simplified deployment of innovative Cisco NX-OS features
 - Easy-to-use provisioning capabilities for technologies such as virtual PortChannel (vPC), VDC, Cisco FabricPath, Fibre Channel over Ethernet (FCoE), zoning, and virtual SANs (VSANs)
 - Template-based configuration capabilities for efficient rollout of new technologies

For More Information

For more information about the Cisco DCNM software, send an email to ask-dcnm@cisco.com, visit the product homepage at www.cisco.com/go/dcnm, or contact your local account representative.