



Cisco Data Center Network Manager 10

Cisco Data Center Network Manager 10 Product Overview

The evolution of large-scale fabrics in the data center to support virtualization presents significant challenges for network and IT administrators.

These fabrics are becoming too large to manage using traditional manual command-line interface (CLI) processes, making automation and automatic provisioning necessities. In addition, virtualization and virtual machine management (VMM) tools such as OpenStack are blurring the line between IT and network administration by requiring just-in-time network deployment. New standards such as Virtual Extensible LAN (VXLAN) and FCoE require additional sophistication to implement and benefit from well-ordered resource management and automation.

Cisco® Data Center Network Manager 10 (Figure 1) provides the set of functions needed to both automatically provision Cisco Nexus® switches and automatically configure the switch fabric, linking the VMM tools to the network manager. By using Data Center Network Manager 10, the administrator can implement efficient switch deployments that automate and optimize the fabric. Data Center Network Manager 10 works along with Cisco Nexus 5000, 6000, 7000, and 9000 and MDS 9100, 9200, 9300, 9500 and 9700 Series Switches in standard Cisco NX-OS Software deployments (NX-OS mode) to reduce operating expenses (OpEx) in next-generation Cisco Powered™ programmable fabrics. Because the manager is topology independent, it helps you bridge the gap between existing LAN and SAN deployments and next-generation VXLAN (IP) fabrics.

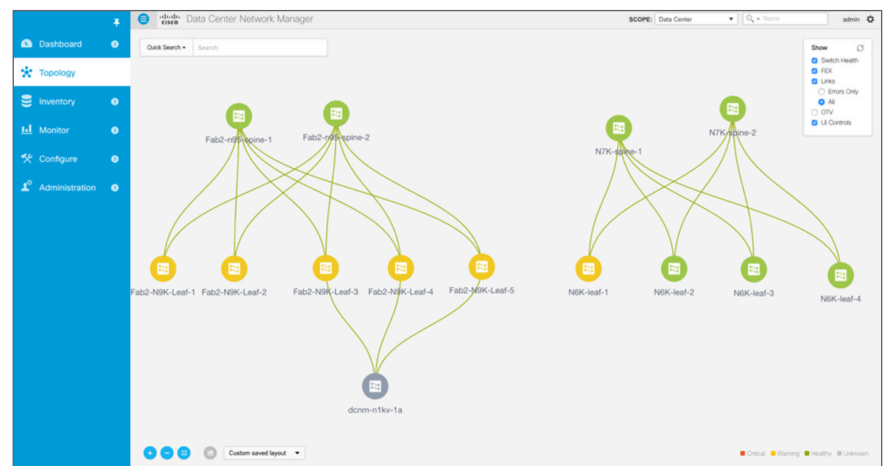
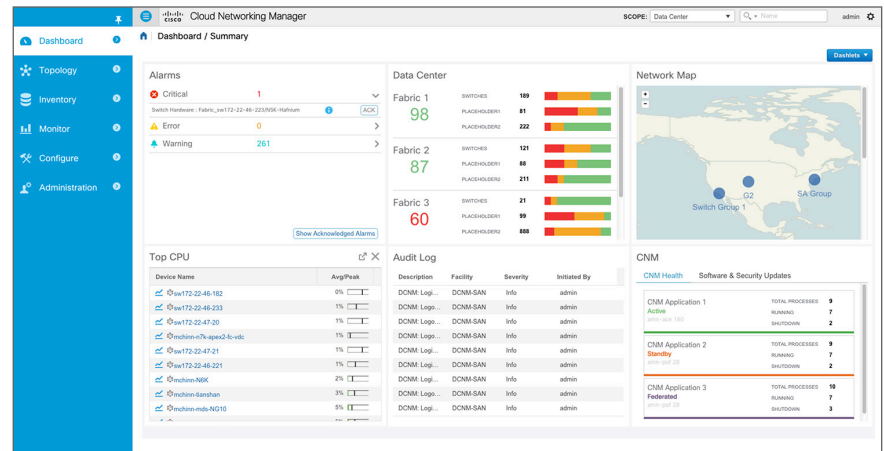
Benefits

- Flexible, topology-independent network management and automation for Cisco Nexus® programmable fabrics
- Comprehensive device support for the Cisco Nexus 2000 Series Fabric Extenders and 3000, 4000, 5000, 6000, 7000, 8000, and 9000 Series Switches in Cisco NX-OS Software mode
- DCNM support MDS 9100, 9200, 9300, 9500 and 9700
- Customizable using prevalidated configuration templates for bulk deployments
- Support for multiple sites and multiple fabrics for extended operations capabilities

Next Steps

To get started with Cisco Data Center Network Manager 10, visit <http://cisco.com/go/datacenter> or talk to your Cisco representative. Request a demonstration.

Figure 1. Cisco Data Center Network Manager 10



Comprehensive Customizable Multi-Fabric, Multi-Site Management at Scale

Cisco Data Center Network Manager 10 unifies and automates Cisco Nexus infrastructure for cloud management across Cisco Nexus 5000, 6000, 7000, and 9000 Series Switches in NX-OS mode. Data Center Network Manager 10 lets you manage very large numbers of devices while providing ready-to-use management and automation capabilities plus VXLAN overlay visibility into Cisco Nexus LAN fabrics. Data Center Network Manager 10 is different than other cloud and data center infrastructure management tools because it supports any topology (such as VXLAN, Cisco FabricPath, and three-tier traditional topologies) at very large scale and includes automation support for underlay and overlay networks. You can attach Data Center Network Manager 10 directly to orchestration systems from OpenStack, VMware, or Cisco. Data Center Network Manager 10 also supports Storage Area Network (SAN) fabrics and provides configuration, management, analytics and visibility for Nexus and MDS switches from the same console.