



CHAPTER 1

Overview

This chapter describes the system management features that you can use to monitor and manage a Nexus environment using the Cisco Data Center Network Manager (DCNM).

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Events

The Event Browser and feature-specific Events tabs in Cisco DCNM enable you to view and manage recent status events. Events include status-related system messages that Cisco DCNM retrieves from managed devices and messages generated by the Cisco DCNM server.

Inventory

The Inventory feature displays information about the components that comprise a selected managed device and power usage information for managed Cisco Nexus 7000 Series switches. For information, see [Chapter 3, “Working with Inventory.”](#)

In addition, the Inventory feature allows you to configure fundamental system parameters on virtual switches, such as the Cisco Nexus 1000V Series switch. For information, see [Chapter 4, “Managing Virtual Switches.”](#)

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Virtual Switching

Cisco DCNM can be used to manage and display information about virtual switches, such as the Cisco Nexus 1000V Series switch, in your network. Managing a virtual switch involves configuring its domain and server connection.

SPAN

The switched port analyzer (SPAN) feature analyzes traffic between source ports on Cisco NX-OS devices. It operates by directing the SPAN session traffic to a destination port with an external analyzer attached to it. The sources and destinations to be monitored in SPAN sessions can be configured on the local device.

LLDP

Link Layer Discovery Protocol (LLDP) is a vendor-neutral, one-way device discovery protocol that allows network devices to advertise information about themselves to other devices on the network. This protocol runs over the data-link layer, which allows two systems running different network layer protocols to learn about each other. LLDP can be enabled globally or per interface.

Managing Device Operating Systems

The Device OS Management feature controls the software images that are installed on Cisco DCNM-managed devices. It enables you to view software image details, create and manage software installation jobs that affect one or more managed devices, and configure file servers to transfer software images and back up device configurations.

Configuration Change Management

The Configuration Change Management feature maintains an archive of configurations from managed devices. It enables you to view and compare archived configurations as well as roll back the running configuration of a managed device to any archived configuration version available for the device.

Configuration Delivery Management

The Configuration Delivery Management feature enables you to create and schedule configuration delivery jobs. Each job can send device configuration commands to one or more devices.