



Overview of DCNM-LAN

This chapter provides a brief overview of Cisco Data Center Network Manager for LAN (DCNM-LAN).

For information about the specific Cisco Nexus products supported by DCNM-LAN, see the *Cisco DCNM Release Notes, Release 5.x*.

This chapter includes the following sections:

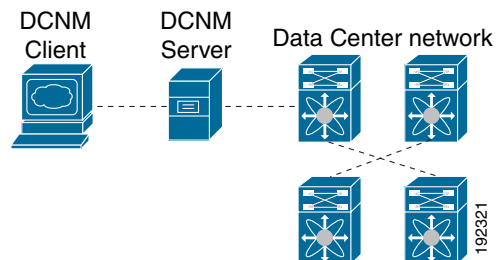
- [DCNM-LAN Client and Server, page 11-1](#)
- [Features in Cisco DCNM-LAN, Release 5.2, page 11-2](#)
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DCNM-LAN Client and Server

DCNM-LAN is a Java-based client-server application. For Java requirements, server system requirements, and client system requirements, see the *Cisco DCNM Release Notes, Release 5.x*.

[Figure 11-1](#) shows the DCNM-LAN client-server environment. The DCNM-LAN client communicates with the DCNM-LAN server only, never directly with managed Cisco NX-OS devices. The DCNM-LAN server uses the XML management interface of Cisco NX-OS devices to manage and monitor them. The XML management interface is a programmatic method based on the NETCONF protocol that complements the command-line interface (CLI) functionality. For more information, see the *Cisco NX-OS XML Interface User Guide*.

Figure 11-1 DCNM-LAN Client-Server Environment



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Features in Cisco DCNM-LAN, Release 5.2

Cisco DCNM-LAN Release 5.2 supports the configuration and monitoring of the following Cisco NX-OS features:

- Ethernet switching
 - Physical and virtual ports
 - Port channels and virtual port channels (vPCs)
 - Loopback and management interfaces
 - VLAN network interfaces (sometimes referred to as switched virtual interfaces or SVIs)
 - VLANs and private VLANs (PVLAN)
 - Spanning Tree Protocol, including Rapid Spanning Tree (RST) and Multiple Spanning Tree Protocol (MST)
 - Fabric Extender
 - Link-state tracking
 - Serial Over LAN
 - Chassis Internal Network
 - Fibre-Channel-over-Ethernet Initiation Protocol (FIP) snooping
 - Port profiles
- Ethernet routing
 - Gateway Load Balancing Protocol (GLBP), object tracking, and keychain management
 - Hot Standby Router Protocol (HSRP)
- Network security
 - Access control lists
 - IEEE 802.1X
 - Authentication, authorization, and accounting (AAA)
 - Role-based access control
 - Dynamic Host Configuration Protocol (DHCP) snooping
 - Dynamic Address Resolution Protocol (ARP) inspection
 - IP Source Guard
 - Traffic storm control
 - Port security
- General
 - Virtual Device Context
 - Hardware resource utilization with Ternary Content Addressable Memory (TCAM) statistics
 - Switched Port Analyzer (SPAN)

DCNM-LAN includes the following features for assistance with management of your network:

- Topology viewer
- Network servers

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- Device groups
- Event browser
- Configuration Delivery Management
- Configuration Change Management
- Device OS Management
- Hardware and virtual switch inventory

DCNM-LAN includes the following administrative features:

- DCNM-LAN server user accounts
- Device discovery
- Automatic synchronization with discovered devices
- Statistical data collection management
- DCNM-LAN server and client logging
- DCNM-LAN server cluster administration

Platform Support

DCNM-LAN supports the following platforms:

- Cisco Nexus 1000V switches
- Cisco Nexus 2000 Fabric Extenders
- Cisco Nexus 3000 Series switches
- Cisco Nexus 4000 Series switches
- Cisco Nexus 5000 Series switches
- Cisco Nexus 6000 Series switches
 - DCNM-LAN supports both fixed and removable expansion modules.
 - In DCNM-LAN, the interface breakout feature can be configured through configuring the delivery feature, and not as a part of configuring an Ethernet interface.
- Catalyst 6500

DCNM-LAN provides limited support for the Catalyst 6500 Series switches that runs classic IOS version 12.2(33)SXI or higher.

- DCNM-LAN supports the viewing of the current configuration attributes of the device.
- DCNM-LAN does not support changing the configuration of the device.
- DCNM-LAN supports the Firewall Service Module (FWSM) version 4.0 or higher for the Catalyst 6500 Series switches.
- Cisco Nexus 7000 Series switches

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Documentation About DCNM-LAN

The documentation for DCNM-LAN includes several configuration guides and other documents. For more information about the DCNM-LAN documentation, see the [“Obtaining Documentation and Submitting a Service Request”](#) section on page 68.