

Configure IP Procedure for DCN Core Switch



AI Overview

To configure the IP address on a DCN core switch, assign the NE IP to the loopback or physical interface, set the subnet mask, and enable DCN globally and on the interface.

Step 1: Access the Switch Connect to the switch using out-of-band management via the console port with a serial cable. Use a terminal emulator (e.g., HyperTerminal, PuTTY) with settings: 9600 baud rate, 8 data bits, no parity, 1 stop bit, no flow control.

Step 2: Enter System View Log in to the switch CLI. Enter system view by typing: `CodeCopy system-view` This allows you to configure global switch parameters.

Step 3: Enable DCN Enable DCN globally: `CodeCopy dcn enable` Enter DCN view to configure DCN-specific settings: `CodeCopy dcn` By default, DCN is disabled, so this step is required for all subsequent DCN configurations.

Step 4: Configure NE ID and NE IP By default, the NE ID is generated from the lower 24 bits of the MAC address. You can manually configure it if needed: `CodeCopy dcn ne-id` Assign the NE IP to the loopback interface or physical interface: `CodeCopy interface loopback ip address` For physical interfaces, navigate to the interface view: `CodeCopy interface` `dcnip address` Ensure the subnet mask is valid (network portion with contiguous 1s, host portion with contiguous 0s) and within supported ranges (1-99, 101-126, 128-223 for first octet).

Step 5: Configure DCN VLAN (if required) Assign the interface to a DCN VLAN to ensure proper communication with the GNE and NMS: `CodeCopy dcn vlan` This step ensures the NE IP is advertised correctly in the DCN domain via OSPF and LLDP.

Step 6: Verify Connectivity Check that the NE IP is reachable from the GNE and NMS. Use ping or Telnet/SSH to confirm connectivity. Ensure the NE IP is advertised in the DCN core routing table and synchronized with other NEs.

Step 7: Save Configuration `Commit` and save the configuration to prevent loss after reboot:...

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DCN Switch Management User Manual: AI Chat & PDF Access

This user manual covers switch management, basic configuration, Telnet/SSH, IP address configuration, SNMP, file system operations, and cluster configuration, providing essential guidelines for new users.

DCN Configuration

If DCN packets are carried by IP packets, the forwarding priority of the DCN packets is lower than other packets. In this scenario, configure a forwarding priority, based on which a GNE forwards the DCN

Configuration Guide

This document describes the principles and configurations of DCN and Server Management, and provides configuration examples.

DCN Configuration

This chapter describes how to enable DCN globally, enable DCN on an interface, enable the automatic NE report function on a GNE, and configure NE IDs and NE IP addresses.

DCN Switch Management Guide | PDF | Secure Shell | Ip Address

The document provides step-by-step instructions for initial console access as well as configuring IP settings and Telnet access to enable in-band management. It also discusses other management

Procedure 3-48: Configure the IP address

Procedure 3-48: Configure the IP address Use the following procedure to configure the IP address of the DCN Physical interface.

DCN Configuration

This section describes the principles, configuration procedures, and configuration examples of the data communication network (DCN) feature.

Huawei DCN Design Guide

As the core of traffic aggregation and forwarding, data center switches play an important role in the entire data center network. This book describes how to build a data center network using

Cisco Switch DCN Configuration Guide

This document provides instructions for configuring a Cisco switch for DCN including: 1) Connecting via console port and entering configuration mode. 2) Configuring the hostname, console/telnet

Hub TN DCN Configure | PDF | Network Switch | Wide Area Network

The document describes how to configure a hub site connected directly to a service provider including configuring basic network elements, Ethernet switch mode, LAN to DCN connectivity, LAGs, WAN

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