Preface

This preface describes the audience, organization, and conventions of the *Cisco Nexus 5000 Series NX-OS SAN Switching Configuration Guide*. It also provides information on how to obtain related documentation.

- Audience, page i
- Document Organization, page i
- Document Conventions, page iii
- Related Documentation for Cisco Nexus 5000 Series NX-OS Software, page iv
- Obtaining Documentation and Submitting a Service Request, page vi

Audience

This publication is for experienced network administrators who configure and maintain Cisco NX-OS 5000 Series switches and Cisco Nexus 2000 Series Fabric Extenders.

Document Organization

This document is organized into the following chapters:

Chapter	Description
New and Changed Information	Describes the new and changed information for the new Cisco NX-OS software releases.
Overview	Provides an overview of all the features in this guide.
Configuring Fibre Channel Interfaces	Describes the licensing requirements, configuration information, interface modes, and interface states for Fibre Channel interfaces.
Configuring Domain Parameters	Describes configuration information for domain parameters, domain IDs, and FC IDs.

Chapter	Description
Configuring N Port Virtualization	Provides an overview of N Port Virtualization, information on how to configure NPV interfaces, and includes guidelines and requirements for configuring and verifying NPV.
Configuring VSAN Trunking	Describes TE ports and trunking concepts and how to configure VSAN trunking, and how to enable trunking protocols.
Configuring SAN Port Channel	Explains SAN PortChannels and load balancing concepts and provides details on configuring SAN PortChannels, and adding or deleting ports to SAN PortChannels.
Configuring and Managing VSANs	Describes how virtual SANs (VSANs) work, explains the concept of default VSANs, isolated VSANs, VSAN IDs, and attributes, and provides details on how to create, delete, and view VSANs.
Configuring and Managing Zones	Defines various zoning concepts and provides details on configuring a zone set and zone management features.
Distributing Device Alias Services	Describes the use of the Distributed Device Alias Services (device alias) to distribute device alias names on a fabric-wide basis.
Configuring Fibre Channel Routing Services and Protocols	Provides details and configuration information on Fibre Channel routing services and protocols.
Managing FLOGI, Name Server, FDMI, an RSCN Databases	Provides name server and fabric login details required to manage storage devices and display registered state change notification (RSCN) databases.
Discovering SCSI Targets	Describes how the SCSI LUN discovery feature is started and displayed.
Advanced Fibre Channel Features and Concepts	Describes the advanced configuration features time-out values, fctrace, fabric analyzer, world wide names, flat FC IDs, loop monitoring, and interoperating switches.
Configuring FC-SP and DHCHAP	Describes the DHCHAP protocol, which is an FC-SP protocol that provides authentication between SAN switches and other devices.
Configuring Port Security	Provides details on port security features that can prevent unauthorized access to a switch port in the Cisco SAN switches.
Configuring Fabric Binding	Describes the fabric binding security feature for VSANs, which ensures that ISLs are only enabled between specific switches.
Configuring Fabric Configuration Servers	Describes how the fabric configuration server (FCS) feature is configured and displayed.
Configuring Port Tracking	Describes the port tracking feature and provides information to enable port tracking and to configure linked ports.

Document Conventions

Note As part of our constant endeavor to remodel our documents to meet our customers' requirements, we have modified the manner in which we document configuration tasks. As a result of this, you may find a deviation in the style used to describe these tasks, with the newly included sections of the document following the new format.

Command descriptions use the following conventions:

Convention	Description
bold	Bold text indicates the commands and keywords that you enter literally as shown.
Italic	Italic text indicates arguments for which the user supplies the values.
[x]	Square brackets enclose an optional element (keyword or argument).
[x | y]	Square brackets enclosing keywords or arguments separated by a vertical bar indicate an optional choice.
{x | y}	Braces enclosing keywords or arguments separated by a vertical bar indicate a required choice.
[x {y | z}]	Nested set of square brackets or braces indicate optional or required choices within optional or required elements. Braces and a vertical bar within square brackets indicate a required choice within an optional element.
`variable`	Indicates a variable for which you supply values, in context where italics cannot be used.
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.

Examples use the following conventions:

Convention	Description
`screen font`	Terminal sessions and information the switch displays are in screen font.
`boldface screen font`	Information you must enter is in boldface screen font.
italic screen font	Arguments for which you supply values are in italic screen font.
< >	Nonprinting characters, such as passwords, are in angle brackets.
[ ]	Default responses to system prompts are in square brackets.

Convention	Description
!, #	An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line.

This document uses the following conventions:

Note Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the manual.

Caution Means *reader be careful*. In this situation, you might do something that could result in equipment damage or loss of data.

Related Documentation for Cisco Nexus 5000 Series NX-OS Software

The entire Cisco NX-OS 5000 Series documentation set is available at the following URL:

http://www.cisco.com/c/en/us/support/switches/nexus-5000-series-switches/tsd-products-support-series-home.html

Release Notes

The release notes are available at the following URL:

http://www.cisco.com/en/US/products/ps9670/prod_release_notes_list.html

Configuration Guides

These guides are available at the following URL:

http://www.cisco.com/en/US/products/ps9670/products_installation_and_configuration_guides_list.html

The documents in this category include:

- *Adapter-FEX Configuration Guide*
- *Cisco Fabric Manager Configuration Guide*
- *Cisco Nexus 5000 Series NX-OS Software Configuration Guide*
- *Configuration Limits for Cisco NX-OS*
- *FabricPath Configuration Guide*
- *Fibre Channel over Ethernet Configuration Guide*
- *Layer 2 Switching Configuration Guide*
- *Multicast Routing Configuration Guide*

- *Operations Guide*
- *SAN Switching Configuration Guide*
- *Quality of Service Configuration Guide*
- *Security Configuration Guide*
- *System Management Configuration Guide*
- *Unicast Routing Configuration Guide*

Maintain and Operate Guides

Cisco Nexus 5000 Series NX-OS Operations Guides for various features are available at http://www.cisco.com/en/US/products/ps9670/prod_maintenance_guides_list.html.

Installation and Upgrade Guides

These guides are available at the following URL:

http://www.cisco.com/en/US/products/ps9670/prod_installation_guides_list.html

The documents in this category include:

- *Cisco Nexus 5000 Series Hardware Installation*
- *Software Upgrade and Downgrade Guides*
- *Regulatory Compliance and Safety Information*

Licensing Guide

The *License and Copyright Information for Cisco NX-OS Software* is available at http://www.cisco.com/en/US/docs/switches/datacenter/sw/4_0/nx-os/license_agreement/nx-ossw_lisns.html.

Command References

These guides are available at the following URL:

http://www.cisco.com/en/US/products/ps9670/prod_command_reference_list.html

The documents in this category include:

- *Command Reference Master Index*
- *Fabric Extender Command Reference*
- *FabricPath Command Reference*
- *Fibre Channel Command Reference*
- *Fundamentals Command Reference*
- *Layer 2 Interfaces Command Reference*
- *Multicast Routing Command Reference*
- *QoS Command Reference*
- *Security Command Reference*

- *System Management Command Reference*
- *TrustSec Command Reference*
- *Unicast Routing Command Reference*
- *vPC Command Reference*

Technical References

The *Cisco Nexus 5000 and Cisco Nexus 2000 MIBs Reference* is available at http://www.cisco.com/en/US/docs/switches/datacenter/nexus5000/sw/mib/reference/NX5000_MIBRef.html.

Error and System Messages

The *Nexus 5000 Series NX-OS System Message Reference* is available at http://www.cisco.com/en/US/docs/switches/datacenter/nexus5000/sw/system_messages/reference/sl_nxos_book.html.

Troubleshooting Guide

The *Cisco Nexus 5000 Series Troubleshooting Guide* is available at http://www.cisco.com/en/US/docs/switches/datacenter/nexus5000/sw/troubleshooting/guide/N5K_Troubleshooting_Guide.html.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see What's New in Cisco Product Documentation.

To receive new and revised Cisco technical content directly to your desktop, you can subscribe to the What's New in Cisco Product Documentation RSS feed. RSS feeds are a free service.