



Preface

This document introduces troubleshooting tools and provides information about how to recognize a problem with the Cisco Nexus 1000V, determine its cause, and find possible solutions.

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Audience

This publication is for experienced network administrators who configure and maintain a Cisco Nexus 1000V.

Document Organization

This document is organized into the following chapters:

Title	Description
Chapter 1, “Overview of Troubleshooting”	Describes basic troubleshooting information.
Chapter 2, “Tools Used in Troubleshooting”	Describes the available troubleshooting tools.
Chapter 3, “Installation”	Describes how to troubleshoot installation problems.
Chapter 4, “Licensing”	Describes how to identify and resolve problems related to licensing for the Cisco Nexus 1000V.
Chapter 5, “Modules”	Describes how to identify and resolve problems with modules.
Chapter 6, “Ports and Port Profiles”	Describes how to identify and resolve problems with ports.
Chapter 7, “Port Channels and Trunking”	Describes how to identify and resolve problems with port channels and trunks.

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Title	Description
Chapter 8, “Layer 2 Switching”	Describes how to identify and resolve problems with Layer 2 switching.
Chapter 9, “ACLs”	Describes how to identify and resolve problems with ACLs.
Chapter 10, “Quality of Service”	Describes how to identify and resolve problems related to Quality of Service (QoS).
Chapter 11, “NetFlow”	Describes how to identify and resolve problems with NetFlow.
Chapter 12, “VLANs”	Describes how to identify and resolve problems with VLANs.
Chapter 13, “Private VLANs”	Describes how to identify and resolve problems related to private VLANs.
Chapter 14, “Multicast IGMP”	Describes how to identify and resolve problems with multicast.
Chapter 15, “SPAN”	Describes how to identify and resolve problems with SPAN.
Chapter 16, “High Availability”	describes how to identify and resolve problems related to High Availability (HA).
Chapter 17, “System”	Describes how to identify and resolve problems with VMware.
Chapter 18, “Before Contacting Technical Support”	Describes the steps to take before requesting technical support.

Document Conventions

Command descriptions use these conventions:

Convention	Description
boldface font	Commands and keywords are in boldface.
<i>italic font</i>	Arguments for which you supply values are in italics.
[]	Elements in square brackets are optional.
[x y z]	Optional alternative keywords are grouped in brackets and separated by vertical bars.
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.

Screen examples use these conventions:

<code>screen font</code>	Terminal sessions and information that the switch displays are in screen font.
<code>boldface screen font</code>	Information that you must enter is in boldface screen font.
<i><code>italic screen font</code></i>	Arguments for which you supply values are in italic screen font.
< >	Nonprinting characters, such as passwords, are in angle brackets.

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[]	Default responses to system prompts are in square brackets.
!, #	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

Cisco Nexus 1000V includes the following documents available on Cisco.com:

General Information

Cisco Nexus 1000V Release Notes, Release 4.0(4)SV1(1)

Cisco Nexus 1000V and VMware Compatibility Information, Release 4.0(4)SV1(1)

Install and Upgrade

Cisco Nexus 1000V Software Installation Guide, Release 4.0(4)SV1(1)

Cisco Nexus 1000V Virtual Ethernet Module Software Installation Guide, Release 4.0(4)SV1(1)

Configuration Guides

Cisco Nexus 1000V License Configuration Guide, Release 4.0(4)SV1(1)

Cisco Nexus 1000V Getting Started Guide, Release 4.0(4)SV1(1)

Cisco Nexus 1000V Interface Configuration Guide, Release 4.0(4)SV1(1)

Cisco Nexus 1000V Layer 2 Switching Configuration Guide, Release 4.0(4)SV1(1)

Cisco Nexus 1000V Port Profile Configuration Guide, Release 4.0(4)SV1(1)

Cisco Nexus 1000V Quality of Service Configuration Guide, Release 4.0(4)SV1(1)

Cisco Nexus 1000V Security Configuration Guide, Release 4.0(4)SV1(1)

Cisco Nexus 1000V System Management Configuration Guide, Release 4.0(4)SV1(1)

Cisco Nexus 1000V High Availability and Redundancy Reference, Release 4.0(4)SV1(1)

Reference Guides

Cisco Nexus 1000V Command Reference, Release 4.0(4)SV1(1)

Cisco Nexus 1000V MIB Quick Reference

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Troubleshooting and Alerts

Cisco Nexus 1000V Troubleshooting Guide, Release 4.0(4)SV1(1)

Cisco Nexus 1000V Password Recovery Guide

Cisco NX-OS System Messages Reference

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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