Preface

The Troubleshooting document provides information about how to recognize a problem, determine its cause, and find possible solutions.

This preface describes the following aspects of this document:

- Audience, page xiii
- Document Organization, page xiii
- Document Conventions, page xiv
- Available Documents, page xv
- Available Documents, page xv

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, “Licenses”	Describes how to identify and resolve problems related to licensing for theCisco Nexus 1000V.
Chapter 5, “Upgrade”	Describes how to troubleshoot upgrade problems.
Chapter 6, “High Availability”	Describes how to identify and resolve problems related to High Availability (HA).
Chapter 7, “VSM and VEM Modules”	Describes how to identify and resolve problems with modules.

Send document comments to nexus1k-docfeedback@cisco.com.

Title	Description
Chapter 8, “Ports”	Describes how to identify and resolve problems with ports.
Chapter 9, “Port Profiles”	Describes how to identify and resolve problems with port profiles.
Chapter 10, “Port Channels and Trunking”	Describes how to identify and resolve problems with port channels and trunks.
Chapter 11, “Layer 2 Switching”	Describes how to identify and resolve problems with Layer 2 switching.
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, “NetFlow”	Describes how to identify and resolve problems with NetFlow.
Chapter 15, “ACLs”	Describes how to identify and resolve problems with ACLs.
Chapter 16, “Quality of Service”	Describes how to identify and resolve problems related to Quality of Service (QoS).
Chapter 17, “SPAN”	Describes how to identify and resolve problems with SPAN.
Chapter 18, “Multicast IGMP”	Describes how to identify and resolve problems with multicast.
Chapter 19, “DHCP, DAI, and IPSG”	Describes how to identify and resolve problems related to DHCP snooping, Dynamic ARP Inspection, and IP Source Guard.
Chapter 20, “Virtual Service Domain”	Describes how to identify and resolve problems related to Virtual Service Domain (VSD).
Chapter 21, “System”	Describes how to identify and resolve problems with VMware.
Chapter 22, “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.
italic font	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.

Send document comments to nexus1k-docfeedback@cisco.com.

Screen examples use these conventions:

`screen font`	Terminal sessions and information that the switch displays are in screen font.
`boldface screen font`	Information that 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.
!, #	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.

Available Documents

This section lists the documents used with the Cisco Nexus 1000 and available on Cisco.com at the following url:

http://www.cisco.com/en/US/products/ps9902/tsd_products_support_series_home.html

General Information

Cisco Nexus 1000V Documentation Roadmap, Release 4.2(1)SV1(4a)

Cisco Nexus 1000V Release Notes, Release 4.2(1)SV1(4b)

Cisco Nexus 1000V Compatibility Information, Release 4.2(1)SV1(4b)

Cisco Nexus 1010 Management Software Release Notes, Release 4.2(1)SP1(4)

Install and Upgrade

Cisco Nexus 1000V Software Installation Guide, Release 4.2(1)SV1(4b)

Cisco Nexus 1000V Software Upgrade Guide, Release 4.2(1)SV1(4b)

Cisco Nexus 1000V VEM Software Installation and Upgrade Guide, Release 4.2(1)SV1(4b)

Cisco Nexus 1010 Virtual Services Appliance Hardware Installation Guide

Cisco Nexus 1010 Software Installation and Upgrade Guide, Release 4.2(1)SP1(4)

Configuration Guides

Cisco Nexus 1000V License Configuration Guide, Release 4.2(1)SV1(4a)

Send document comments to nexus1k-docfeedback@cisco.com.

Cisco Nexus 1000V Getting Started Guide, Release 4.2(1)SV1(4b)

Cisco Nexus 1000V High Availability and Redundancy Configuration Guide, Release 4.2(1)SV1(4b)

Cisco Nexus 1000V Interface Configuration Guide, Release 4.2(1)SV1(4a)

Cisco Nexus 1000V Layer 2 Switching Configuration Guide, Release 4.2(1)SV1(4)

Cisco Nexus 1000V Port Profile Configuration Guide, Release 4.2(1)SV1(4a)

Cisco Nexus 1000V Quality of Service Configuration Guide, Release 4.2(1)SV1(4)

Cisco Nexus 1000V Security Configuration Guide, Release 4.2(1)SV1(4b)

Cisco Nexus 1000V System Management Configuration Guide, Release 4.2(1)SV1(4b)

Cisco Nexus 1010 Software Configuration Guide, Release 4.2(1)SP1(4)

Programming Guide

Cisco Nexus 1000V XML API User Guide, Release 4.2(1)SV1(4)

Reference Guides

Cisco Nexus 1000V Command Reference, Release 4.2(1)SV1(4)

Cisco Nexus 1000V MIB Quick Reference

Cisco Nexus 1010 Command Reference, Release 4.2(1)SP1(4)

Troubleshooting and Alerts

Cisco Nexus 1000V Troubleshooting Guide, Release 4.2(1)SV1(4a)

Cisco Nexus 1000V Password Recovery Guide

Cisco NX-OS System Messages Reference

Virtual Security Gateway Documentation

Cisco Virtual Security Gateway for Nexus 1000V Series Switch

Virtual Network Management Center

Cisco Virtual Network Management Center

Network Analysis Module Documentation

Cisco Prime Network Analysis Module Software Documentation Guide, 5.1

Cisco Prime Network Analysis Module (NAM) for Nexus 1010 Installation and Configuration Guide, 5.1

Cisco Prime Network Analysis Module Command Reference Guide 5.1

Cisco Prime Network Analysis Module Software 5.1 Release Notes

Cisco Prime Network Analysis Module Software 5.1 User Guide

Send document comments to nexus1k-docfeedback@cisco.com.

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

Subscribe to the *What's New in Cisco Product Documentation* as a Really Simple Syndication (RSS) feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service and Cisco currently supports RSS Version 2.0.

Send document comments to nexus1k-docfeedback@cisco.com.