



Preface

The Port Profile Configuration document describes how to create and configure port profiles, the primary mechanism for defining and applying network policy to switch interfaces.

This preface describes the following aspects of this document:

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Audience

This guide is for network administrators with the following experience and knowledge:

- An understanding of virtualization
- Using VMware tools to configure a vswitch



Note

Knowledge of VMware vNetwork Distributed Switch is not a prerequisite.

Document Organization

This publication is organized as follows:

Chapter and Title	Description
Chapter 1, “Overview”	Describes port profiles and their use.
Chapter 2, “Creating Port Profiles”	Describes how to create, enable, and configure port profiles.
Chapter 3, “Configuring Port Profile Inheritance”	Describes port profile inheritance, how to configure it, and how to remove inheritance from a port profile.

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Chapter and Title	Description
Chapter 4, “Configuring System Port Profiles”	Describes system port profiles and how to configure them.
Chapter 5, “Configuring a Private VLAN in a Port Profile”	Describes how to configure a port profile to be used as a private VLAN (PVLAN).
Chapter 6, “Restricting Port Profile Visibility”	Describes how to restrict visibility of port profiles to a user or a group of users.
Chapter 7, “Verifying the Port Profile Configuration”	Lists and shows examples of commands used to verify port profile configurations
Appendix A, “Port Profile Configuration Limits”	Lists the maximum configuration limits for port profile features.

Document Conventions

Command descriptions use these conventions:

boldface font	Commands and keywords are in boldface.
<i>italic font</i>	Arguments for which you supply values are in italics.
{ }	Elements in braces are required choices.
[]	Elements in square brackets are optional.
x y z	Alternative, mutually exclusive elements are 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 the device displays are in screen font.
<code>boldface screen font</code>	Information 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.
[]	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 for notes and cautions:



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.

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Recommended Reading

Before configuring the Cisco Nexus 1000V, we recommend that you read and become familiar with the following documentation:

- *Cisco Nexus 1000V Port Profile Configuration Guide, Release 4.2(1)SVI(5.1)*
- *Cisco VN-Link: Virtualization-Aware Networking white paper*

Related Documentation

This section lists the documents used with the Cisco Nexus 1000 and available on [Cisco.com](http://www.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)SVI(5.1)

Cisco Nexus 1000V Release Notes, Release 4.2(1)SVI(5.1)

Cisco Nexus 1000V Compatibility Information, Release 4.2(1)SVI(5.1)

Cisco Nexus 1010 Management Software Release Notes, Release 4.2(1)SPI(3)

Install and Upgrade

Cisco Nexus 1000V Installation and Upgrade Guide, Release 4.2(1)SVI(5.1)

Cisco Nexus 1010 Virtual Services Appliance Hardware Installation Guide

Cisco Nexus 1010 Software Installation and Upgrade Guide, Release 4.2(1)SPI(3)

Configuration Guides

Cisco Nexus 1000V High Availability and Redundancy Configuration Guide, Release 4.2(1)SVI(5.1)

Cisco Nexus 1000V Interface Configuration Guide, Release 4.2(1)SVI(5.1)

Cisco Nexus 1000V Layer 2 Switching Configuration Guide, Release 4.2(1)SVI(5.1)

Cisco Nexus 1000V License Configuration Guide, Release 4.2(1)SVI(5.1)

Cisco Nexus 1000V Network Segmentation Manager Configuration Guide, Release 4.2(1)SVI(5.1)

Cisco Nexus 1000V Port Profile Configuration Guide, Release 4.2(1)SVI(5.1)

Cisco Nexus 1000V Quality of Service Configuration Guide, Release 4.2(1)SVI(5.1)

Cisco Nexus 1000V Security Configuration Guide, Release 4.2(1)SVI(5.1)

Cisco Nexus 1000V System Management Configuration Guide, Release 4.2(1)SVI(5.1)

Cisco Nexus 1000V VXLAN Configuration Guide, Release 4.2(1)SVI(5.1)

Cisco Nexus 1010 Software Configuration Guide, Release 4.2(1)SPI(3)

Programming Guide

Cisco Nexus 1000V XML API User Guide, Release 4.2(1)SVI(5.1)

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Reference Guides

Cisco Nexus 1000V Command Reference, Release 4.2(1)SVI(5.1)

Cisco Nexus 1000V MIB Quick Reference

Cisco Nexus 1010 Command Reference, Release 4.2(1)SPI(3)

Troubleshooting and Alerts

Cisco Nexus 1000V Troubleshooting Guide, Release 4.2(1)SVI(5.1)

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

Virtual Wide Area Application Services (vWAAS)

Cisco Virtual Wide Area Application Services (vWAAS)

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

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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