



## Preface

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The *Cisco Nexus 1000V Layer 2 Switching Configuration Guide, Release 4.2(1)SV1(4)* provides an overview of the available Layer 2 features, such as VLAN, PVLAN, and MAC address table, and how to configure them.

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**

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Note: Knowledge of VMware vNetwork Distributed Switch is not required.

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## Recommended Reading

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

- *Cisco Nexus 1000V Getting Started Guide, Release 4.2(1)SV1(4)*
- *Cisco Nexus 1000V Port Profile Configuration Guide, Release 4.2(1)SV1(4)*
- *Cisco VN-Link: Virtualization-Aware Networking* white paper

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## Document Organization

This document is organized into the following chapters:

Chapter	Description
<a href="#">Chapter 1, “Overview”</a>	Describes Layer 2 features.
<a href="#">Chapter 2, “Configuring the MAC Address Table”</a>	Describes MAC address table configuration.
<a href="#">Chapter 3, “Configuring VLANs”</a>	Describes how to configure a VLAN.
<a href="#">Chapter 4, “Configuring a Private VLAN”</a>	Describes how to configure a private VLAN.
<a href="#">Chapter 5, “Configuring IGMP Snooping”</a>	Describes how to configure IGMP Snooping.
<a href="#">Chapter 6, “Layer 2 Switching Configuration Limits”</a>	Lists the layer 2 switching configuration limits.

## Document Conventions

Command descriptions use these conventions:

<b>boldface font</b>	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:

screen font	Terminal sessions and information the device displays are in screen font.
<b>boldface screen font</b>	Information you must enter is in boldface screen font.
<i>italic screen font</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 additional 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.

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## Available Documents

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](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\(4\)](#)  
[Cisco Nexus 1000V Release Notes, Release 4.2\(1\)SV1\(4\)](#)  
[Cisco Nexus 1000V Compatibility Information, Release 4.2\(1\)SV1\(4\)](#)  
[Cisco Nexus 1010 Management Software Release Notes, Release 4.2\(1\)SP1\(2\)](#)

### Install and Upgrade

[Cisco Nexus 1000V Virtual Supervisor Module Software Installation Guide, Release 4.2\(1\)SV1\(4\)](#)  
[Cisco Nexus 1000V Software Upgrade Guide, Release 4.2\(1\)SV1\(4\)](#)  
[Cisco Nexus 1000V VEM Software Installation and Upgrade Guide, Release 4.2\(1\)SV1\(4\)](#)  
[Cisco Nexus 1010 Virtual Services Appliance Hardware Installation Guide](#)  
[Cisco Nexus 1010 Software Installation and Upgrade Guide, Release 4.2\(1\)SP1\(2\)](#)

### Configuration Guides

[Cisco Nexus 1000V License Configuration Guide, Release 4.2\(1\)SV1\(4\)](#)  
[Cisco Nexus 1000V Getting Started Guide, Release 4.2\(1\)SV1\(4\)](#)  
[Cisco Nexus 1000V High Availability and Redundancy Configuration Guide, Release 4.2\(1\)SV1\(4\)](#)  
[Cisco Nexus 1000V Interface Configuration Guide, Release 4.2\(1\)SV1\(4\)](#)  
[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\(4\)](#)  
[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\(4\)](#)  
[Cisco Nexus 1000V System Management Configuration Guide, Release 4.2\(1\)SV1\(4\)](#)  
[Cisco Nexus 1010 Software Configuration Guide, Release 4.2\(1\)SP1\(2\)](#)

### 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\(2\)](#)

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## **Troubleshooting and Alerts**

[Cisco Nexus 1000V Troubleshooting Guide, Release 4.2\(1\)SV1\(4\)](#)  
[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 Release Notes, Release 4.2\(1\)VSG\(1\)](#)  
[Cisco Virtual Security Gateway, Release 4.2\(1\)VSG1\(1\) and Cisco Virtual Network Management Center, Release 1.0.1 Installation Guide](#)  
[Cisco Virtual Security Gateway for Nexus 1000V Series Switch License Configuration Guide, Release 4.2\(1\)VSG1\(1\)](#)  
[Cisco Virtual Security Gateway for Nexus 1000V Series Switch Configuration Guide, Release 4.2\(1\)VSG1\(1\)](#)  
[Cisco Virtual Security Gateway for Nexus 1000V Series Switch Command Reference, Release 4.2\(1\)VSG1\(1\)](#)

## **Virtual Network Management Center**

[Release Notes for Cisco Virtual Network Management Center, Release 1.0.1](#)  
[Cisco Virtual Security Gateway, Release 4.2\(1\)VSG1\(1\) and Cisco Virtual Network Management Center, Release 1.0.1 Installation Guide](#)  
[Cisco Virtual Network Management Center CLI Configuration Guide, Release 1.0.1](#)  
[Cisco Virtual Network Management Center GUI Configuration Guide, Release 1.0.1](#)  
[Cisco Virtual Network Management Center XML API Reference Guide, Release 1.0.1](#)

## **Network Analysis Module Documentation**

[Cisco Network Analysis Module Software Documentation Guide, 4.2](#)  
[Cisco Nexus 1000V NAM Virtual Service Blade Installation and Configuration Guide](#)  
[Network Analysis Module Command Reference Guide, 4.2](#)  
[User Guide for the Cisco Network Analysis Module Virtual Service Blades, 4.2](#)  
[Cisco Network Analysis Module Software Release Notes, 4.2](#)

# **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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