



About This Guide

This guide describes how to configure and use the Enterprise Edition Software features on the Catalyst 2900 series XL and Catalyst 3500 series XL switches (hereafter referred to as the 2900 XL switch and the 3500 XL switch) by using the command-line interface (CLI). Related documents are referenced in this guide. These documents provide additional information about the 2900 and 3500 XL switches.

Cisco documentation and additional literature are available in a CD-ROM package, which ships with your product. The Documentation CD-ROM, a member of the Cisco Connection Family, is updated monthly. Therefore, it might be more current than printed documentation. To order additional copies of the Documentation CD-ROM, contact your local sales representative or call customer service. The CD-ROM package is available as a single package or as an annual subscription on the World Wide Web at <http://www.cisco.com/subscription>. You can also access Cisco documentation on the World Wide Web at <http://www.cisco.com>, <http://www-china.cisco.com>, or <http://www-europe.cisco.com>.

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Audience and Scope

This guide is for the networking or computer technician responsible for configuring a switch running the IOS Desktop Switching Enterprise Edition Software. It is assumed that you are familiar with the concepts and terminology of Ethernet and local area networking.

The scope of this guide is to provide the information you need to configure the VLAN and other advanced features described in this guide.

Organization

This guide is organized into the following chapters:

Chapter 1, “Overview,” lists the new features of this Cisco IOS release and the available management options.

Chapter 2, “Configuring VTP and Virtual LANs,” explains the Virtual Trunk Protocol (VTP), virtual LANs (VLANs), and Quality of Service (QoS) and how to configure them.

Chapter 3, “Configuring VLAN Trunks,” describes how to configure Inter-Switch Link (ISL) and IEEE 802.1Q trunks.

Chapter 4, “Configuring Dynamic VLAN Membership,” describes how to configure dynamic port VLAN membership using the VLAN Membership Policy Server (VMPS).

Chapter 5, “Configuring TACACS+,” describes how to configure a TACACS+ server that can handle authentication, authorization, and accounting for many devices.

Conventions

This publication uses the following conventions to convey instructions and information:

Command descriptions use these conventions:

- Commands and keywords are in **boldface** text.
- Arguments for which you supply values are in *italic*.

Examples use these conventions:

- Terminal sessions and system displays are in `screen` font.
- Information you enter is in **boldface screen** font.
- • Arrows indicate the material that has been changed by a command or procedure.
- Nonprinting characters, such as passwords or tabs, are in angle brackets (<>).

Related Publications

For more information about Cisco IOS Desktop Switching software and related products, refer to the following Cisco Systems publications:

- *Cisco IOS Desktop Switching Command Reference* (online only)—describes the IOS commands used in the standard and Enterprise Edition Software.
- *Cisco IOS Desktop Switching Software Configuration Guide*—describes how to configure and use the standard edition software using the CLI , CVSM, and Cluster Management software.
- *Release Notes for Catalyst 2900 Series XL and Catalyst 3500 Series XL Cisco IOS Release 12.0(5)XP*—describes the software changes between the previous release and the current lease, the limitations and restrictions, and open and resolved caveats.
- *Catalyst 2900 Series XL Installation Guide*—describes the switch hardware features, its physical and performance characteristics, and how to install and troubleshoot the installation.
- *Quick Start Guide: Catalyst 2900 Series XL Switches*—describes how to cable, setup, and assign an IP address to the switch.
- *Catalyst 3500 Series XL Installation Guide*—describes the switch hardware features, its physical and performance characteristics, and how to install and troubleshoot the installation.
- *Quick Start Guide: Catalyst 3500 Series XL Switches*—describes how to cable, setup, and assign an IP address to the switch.

Notes and Cautions

Notes and cautions use the following conventions and symbols:

Note Means *reader take note*. Notes contain helpful suggestions or references to materials not contained in this manual.



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