



## Preface

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### Audience

The *Catalyst 2900 Series XL and Catalyst 3500 Series XL Command Reference* is for the network manager responsible for configuring the Catalyst 2900 series XL and Catalyst 3500 series XL switches, hereafter referred to as the switches. Before using this reference manual, you should be familiar with the concepts and terminology of Ethernet and local area networking.

### Purpose

This reference manual provides information detailed information about the commands that have been created or changed specifically for the Catalyst 2900 XL or Catalyst 3500 XL switches.

Use this reference manual in conjunction with other Catalyst 2900 series XL and Catalyst 3500 series XL documents for the following topics:

- Software configuration guide: For concepts and procedures for configuring and troubleshooting a switch or switch clusters. It includes descriptions of the management interface options and the features supported by the software.
- Release notes: For the hardware and software requirements and cluster compatibility requirements. For information and procedures for assigning switch IP information and passwords by using the setup program. For information about CMS requirements and the procedures for browser configuration and accessing CMS.
- Cluster Management Suite (CMS) online help: For CMS field-level window descriptions and procedures, refer to the CMS online help.
- Standard Cisco IOS Release 12.0 commands available from the Cisco IOS Release 12.0 documentation on Cisco.com.

### Organization

The organization of this reference manual is as follows:

[Chapter 1, “Using the Command-Line Interface,”](#) lists the features included in this software release.

[Chapter 2, “Cisco IOS Commands,”](#) describes the Cisco IOS commands changed or customized for the switches.

# Conventions

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

Command descriptions use these conventions:

- Commands and keywords are in **boldface** font.
- Arguments for which you supply values are in *italic*.
- Alternative keywords are grouped in braces ({} ) and separated by vertical bars (| ).
- Elements in square brackets ([ ]) are optional.

Interactive examples use these conventions:

- Terminal sessions and system displays are in `screen` font.
- Information you enter is in **boldface screen** font.
- Nonprinting characters, such as passwords or tabs, are in angle brackets (< >).

Notes, cautions, and tip information 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.



## Tips

Means *the following will help you solve a problem*. The tips information might not be troubleshooting or even an action, but could be useful information.

# Related Publications

You can order printed copies of documents with a DOC-xxxxxx= number. See the [“Ordering Documentation” section on page viii](#).

The following publications provide more information about the switches:

- *Release Notes for the Catalyst 2900 Series XL and Catalyst 3500 Series XL Cisco IOS Release 12.0(5)WC(1)* (not orderable but is available on Cisco.com)
- Cluster Management Suite (CMS) online help
- Catalyst 2900 XL and Catalyst 3500 XL Documentation CD (not orderable)

**Note**

This product-specific CD contains only the Catalyst 2900 XL and Catalyst 3500 XL switch documents and related hardware documents. This CD is not the same as the Cisco Documentation CD-ROM, which contains the documentation for all Cisco products and is shipped with all Cisco products.

This CD is shipped with the switch and has the following publications:

- *This Catalyst 2900 Series XL and Catalyst 3500 Series XL Command Reference, Cisco IOS Release 12.0(5)WC(1)* (order number DOC-7812155=)
- *Catalyst 2900 Series XL and Catalyst 3500 Series XL Software Configuration Guide, Cisco IOS Release 12.0(5)WC(1)* (order number DOC-7812155=)
- *Catalyst 2900 Series XL Hardware Installation Guide* (order number DOC-786461=)
- *Catalyst 3500 Series XL Hardware Installation Guide* (order number DOC-786456=)
- *Catalyst 2900 Series XL Modules Installation Guide* (order number DOC-CAT2900-IG=)
- *Catalyst 2900 Series XL ATM Modules Installation and Configuration Guide* (order number DOC-785472=)
- *1000BASE-T Gigabit Interface Converter Installation Note* (not orderable but is available on Cisco.com)
- *Catalyst GigaStack Gigabit Interface Converter Hardware Installation Guide* (order number DOC-786460=)
- *Cisco 575 LRE CPE Hardware Installation Guide* (order number DOC-7811469=)

# Obtaining Documentation

The following sections provide sources for obtaining documentation from Cisco Systems.

## World Wide Web

You can access the most current Cisco documentation on the World Wide Web at the following sites:

- <http://www.cisco.com>
- <http://www-china.cisco.com>
- <http://www-europe.cisco.com>

## Cisco Documentation CD-ROM

Cisco documentation and additional literature are available in a CD-ROM package, which ships with your product. The Cisco Documentation CD-ROM is updated monthly and might be more current than printed documentation. The CD-ROM package is available as a single unit or as an annual subscription.

**Note**

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This CD contains the documentation for all Cisco products and is shipped with all Cisco products. This CD is not the same as the Catalyst 2900 XL and Catalyst 3500 XL Documentation CD, which contains only the Catalyst 2900 XL and Catalyst 3500 XL switch documents and related hardware documents.

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## Ordering Documentation

Cisco documentation is available in the following ways:

- Registered Cisco Direct Customers can order Cisco Product documentation from the Networking Products MarketPlace:  
[http://www.cisco.com/cgi-bin/order/order\\_root.pl](http://www.cisco.com/cgi-bin/order/order_root.pl)
- Registered Cisco.com users can order the Documentation CD-ROM through the online Subscription Store:  
<http://www.cisco.com/go/subscription>
- Nonregistered Cisco.com users can order documentation through a local account representative by calling Cisco corporate headquarters (California, USA) at 408 526-7208 or, in North America, by calling 800 553-NETS(6387).

## Documentation Feedback

If you are reading Cisco product documentation on the World Wide Web, you can send us your comments by completing the online survey. When you display the document listing for this platform, click **Give Us Your Feedback**. If you are using the product-specific CD and you are connected to the Internet, click the pencil-and-paper icon in the toolbar to display the survey. After you display the survey, select the manual that you wish to comment on. Click **Submit** to send your comments to the Cisco documentation group.

You can e-mail your comments to [bug-doc@cisco.com](mailto:bug-doc@cisco.com).

To submit your comments by mail, for your convenience many documents contain a response card behind the front cover. Otherwise, you can mail your comments to the following address:

Cisco Systems, Inc.  
Document Resource Connection  
170 West Tasman Drive  
San Jose, CA 95134-9883

We appreciate your comments.

## Obtaining Technical Assistance

Cisco provides Cisco.com as a starting point for all technical assistance. Customers and partners can obtain documentation, troubleshooting tips, and sample configurations from online tools. For Cisco.com registered users, additional troubleshooting tools are available from the TAC website.

### Cisco.com

Cisco.com is the foundation of a suite of interactive, networked services that provides immediate, open access to Cisco information and resources at anytime, from anywhere in the world. This highly integrated Internet application is a powerful, easy-to-use tool for doing business with Cisco.

Cisco.com provides a broad range of features and services to help customers and partners streamline business processes and improve productivity. Through Cisco.com, you can find information about Cisco and our networking solutions, services, and programs. In addition, you can resolve technical issues with online technical support, download and test software packages, and order Cisco learning materials and merchandise. Valuable online skill assessment, training, and certification programs are also available.

Customers and partners can self-register on Cisco.com to obtain additional personalized information and services. Registered users can order products, check on the status of an order, access technical support, and view benefits specific to their relationships with Cisco.

To access Cisco.com, go to the following website:

<http://www.cisco.com>

## Technical Assistance Center

The Cisco TAC website is available to all customers who need technical assistance with a Cisco product or technology that is under warranty or covered by a maintenance contract.

### Contacting TAC by Using the Cisco TAC Website

If you have a priority level 3 (P3) or priority level 4 (P4) problem, contact TAC by going to the TAC website:

<http://www.cisco.com/tac>

P3 and P4 level problems are defined as follows:

- P3—Your network performance is degraded. Network functionality is noticeably impaired, but most business operations continue.
- P4—You need information or assistance on Cisco product capabilities, product installation, or basic product configuration.

In each of the above cases, use the Cisco TAC website to quickly find answers to your questions.

To register for Cisco.com, go to the following website:

<http://www.cisco.com/register/>

If you cannot resolve your technical issue by using the TAC online resources, Cisco.com registered users can open a case online by using the TAC Case Open tool at the following website:

<http://www.cisco.com/tac/caseopen>

### Contacting TAC by Telephone

If you have a priority level 1 (P1) or priority level 2 (P2) problem, contact TAC by telephone and immediately open a case. To obtain a directory of toll-free numbers for your country, go to the following website:

<http://www.cisco.com/warp/public/687/Directory/DirTAC.shtml>

P1 and P2 level problems are defined as follows:

- P1—Your production network is down, causing a critical impact to business operations if service is not restored quickly. No workaround is available.
- P2—Your production network is severely degraded, affecting significant aspects of your business operations. No workaround is available.