



## Preface

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This preface describes the audience, organization, and conventions of this publication, and provides information on how to obtain related documentation.

## Audience

This publication is for experienced network administrators who are responsible for configuring and maintaining Catalyst 4500 series switches.

## Organization

This publication is organized as follows:

Chapter	Title	Description
Chapter 1	<a href="#">Command-Line Interface</a>	Describes the Catalyst 4500 series switch CLI.
Chapter 2	<a href="#">Cisco IOS Commands for the Catalyst 4500 Series Switches</a>	Lists all Catalyst 4500 series Cisco IOS commands alphabetically and provides detailed information on each command.
Appendix A	<a href="#">Acronyms and Abbreviations</a>	Defines the acronyms used in this publication.
Appendix B	<a href="#">Acknowledgments for Open-Source Software</a>	Provides the acknowledgments for Open-Source Software.

## Related Documentation

Refer to the following documents for additional Catalyst 4500 series information:

- Catalyst 4500 Series Switch Documentation Home  
<http://www.cisco.com/go/cat4500/docs>
- Catalyst 4900 Series Switch Documentation Home  
<http://www.cisco.com/go/cat4900/docs>

- Cisco ME 4900 Series Ethernet Switches Documentation Home  
[http://www.cisco.com/en/US/products/ps7009/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps7009/tsd_products_support_series_home.html)

## Hardware Documents

Installation guides and notes including specifications and relevant safety information are available at the following URLs:

- *Catalyst 4500 Series Switches Installation Guide*  
<http://www.cisco.com/en/US/docs/switches/lan/catalyst4500/hardware/installation/guide/78-14409-08/4500inst.html>
- *Catalyst 4500 E-series Switches Installation Guide*  
<http://www.cisco.com/en/US/docs/switches/lan/catalyst4500/hardware/catalyst4500e/installation/guide/Eseries.html>
- For information about individual switching modules and supervisors, refer to the *Catalyst 4500 Series Module Installation Guide* at:  
[http://www.cisco.com/en/US/docs/switches/lan/catalyst4500/hardware/module/guide/mod\\_inst.html](http://www.cisco.com/en/US/docs/switches/lan/catalyst4500/hardware/module/guide/mod_inst.html)
- *Regulatory Compliance and Safety Information for the Catalyst 4500 Series Switches*  
[http://www.cisco.com/en/US/docs/switches/lan/catalyst4500/hardware/regulatory/compliance/78\\_13233.html](http://www.cisco.com/en/US/docs/switches/lan/catalyst4500/hardware/regulatory/compliance/78_13233.html)
- Installation notes for specific supervisor engines or for accessory hardware are available at:  
[http://www.cisco.com/en/US/products/hw/switches/ps4324/prod\\_installation\\_guides\\_list.html](http://www.cisco.com/en/US/products/hw/switches/ps4324/prod_installation_guides_list.html)
- Catalyst 4900 and 4900M hardware installation information is available at:  
[http://www.cisco.com/en/US/products/ps6021/prod\\_installation\\_guides\\_list.html](http://www.cisco.com/en/US/products/ps6021/prod_installation_guides_list.html)
- Cisco ME 4900 Series Ethernet Switches installation information is available at:  
[http://www.cisco.com/en/US/products/ps7009/prod\\_installation\\_guides\\_list.html](http://www.cisco.com/en/US/products/ps7009/prod_installation_guides_list.html)

## Software Documentation

Software release notes, configuration guides, command references, and system message guides are available at the following URLs:

- Catalyst 4500 release notes are available at:  
[http://www.cisco.com/en/US/products/hw/switches/ps4324/prod\\_release\\_notes\\_list.html](http://www.cisco.com/en/US/products/hw/switches/ps4324/prod_release_notes_list.html)
- Catalyst 4900 release notes are available at:  
[http://www.cisco.com/en/US/products/ps6021/prod\\_release\\_notes\\_list.html](http://www.cisco.com/en/US/products/ps6021/prod_release_notes_list.html)
- Cisco ME4900 4900 Series Ethernet Switch release notes are available at:  
[http://www.cisco.com/en/US/docs/switches/lan/catalyst4500/release/note/OL\\_11511.html](http://www.cisco.com/en/US/docs/switches/lan/catalyst4500/release/note/OL_11511.html)

Software documents for the Catalyst 4500 Classic, Catalyst 4500 E-Series, Catalyst 4900, and Cisco ME 4900 Series Ethernet Switches are available at the following URLs:

- *Catalyst 4500 Series Software Configuration Guide*

[http://www.cisco.com/en/US/products/hw/switches/ps4324/products\\_installation\\_and\\_configuration\\_guides\\_list.html](http://www.cisco.com/en/US/products/hw/switches/ps4324/products_installation_and_configuration_guides_list.html)

- *Catalyst 4500 Series Software Command Reference*

[http://www.cisco.com/en/US/products/hw/switches/ps4324/prod\\_command\\_reference\\_list.html](http://www.cisco.com/en/US/products/hw/switches/ps4324/prod_command_reference_list.html)

- *Catalyst 4500 Series Software System Message Guide*

[http://www.cisco.com/en/US/products/hw/switches/ps4324/products\\_system\\_message\\_guides\\_list.html](http://www.cisco.com/en/US/products/hw/switches/ps4324/products_system_message_guides_list.html)

## Cisco IOS Documentation

Platform-independent Cisco IOS documentation may also apply to the Catalyst 4500 and 4900 switches. These documents are available at the following URLs:

- Cisco IOS configuration guides, Release 12.x

[http://www.cisco.com/en/US/products/ps6350/products\\_installation\\_and\\_configuration\\_guides\\_list.html](http://www.cisco.com/en/US/products/ps6350/products_installation_and_configuration_guides_list.html)

- Cisco IOS command references, Release 12.x

[http://www.cisco.com/en/US/products/ps6350/prod\\_command\\_reference\\_list.html](http://www.cisco.com/en/US/products/ps6350/prod_command_reference_list.html)

You can also use the Command Lookup Tool at:

<http://tools.cisco.com/Support/CLILookup/cltSearchAction.do>

- Cisco IOS system messages, version 12.x

[http://www.cisco.com/en/US/products/ps6350/products\\_system\\_message\\_guides\\_list.html](http://www.cisco.com/en/US/products/ps6350/products_system_message_guides_list.html)

You can also use the Error Message Decoder tool at:

<http://www.cisco.com/cgi-bin/Support/Errordecoder/index.cgi>

- For information about MIBs, refer to:

<http://www.cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml>

## Conventions

This document uses these conventions:

Convention	Description
<b>boldface font</b>	Boldface text indicates commands and keywords that you enter literally as shown.
<i>italic font</i>	<i>Italic</i> text indicates arguments for which you supply values.
[x]	Square brackets enclose an optional element (keyword or argument).
	A vertical line indicates a choice within an optional or required set of keywords or arguments.
[x   y]	Square brackets enclosing keywords or arguments separated by a vertical line indicate an optional choice.

Convention	Description
{ x   y }	Braces enclosing keywords or arguments separated by a vertical line indicate a required choice.
[ x { y   z } ]	Braces and a vertical line within square brackets indicate a required choice within an optional element.
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.
screen font	Terminal sessions and information the system displays are in screen font.
<b>boldface screen font</b>	Information you must enter is in <b>boldface screen font</b> .
<i>italic screen font</i>	Arguments for which you supply values are in <i>italic screen font</i> .
^	The symbol ^ represents the key labeled Control—for example, the key combination ^D in a screen display means hold down the Control key while you press the D key.
< >	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.

Notes use this convention:



**Note**

Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the publication.

Cautions use this convention:



**Caution**

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

## 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.



