



## Preface

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This preface describes who should read this document, how it is organized, and its conventions. The preface also tells you how to obtain Cisco documents, as well as how to obtain technical assistance.

## Audience

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

## Conventions

This document uses the following typographical conventions:

Convention	Description
<b>boldface font</b>	Commands, command options, and keywords are in <b>boldface</b> .
<i>italic font</i>	Command arguments for which you supply values are in <i>italics</i> .
[ ]	Command elements in square brackets are optional.
{ x   y   z }	Alternative keywords in command lines are grouped in braces and separated by vertical bars.
[ x   y   z ]	Optional alternative keywords are grouped in brackets and separated by vertical bars.
string	A unquoted set of characters. Do not use quotation marks around the string because the string will include the quotation marks.
screen font	System displays are in <i>screen font</i> .
<b>boldface screen font</b>	Information you must enter verbatim 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> .
→	This pointer highlights an important line of text in an example.
^	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.

Notes use the following conventions:



**Note**

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

Cautions use the following conventions:



**Caution**

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

## Related Documentation

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

- Catalyst 4500 Series Switch Documentation Home  
[http://www.cisco.com/en/US/products/hw/switches/ps4324/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/hw/switches/ps4324/tsd_products_support_series_home.html)

## Hardware Documents

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

### Cisco Catalyst 4500E Series Switches

- *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/configuration/notes/OL\\_25315.html](http://www.cisco.com/en/US/docs/switches/lan/catalyst4500/hardware/configuration/notes/OL_25315.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)
- *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)

### Cisco Catalyst 4500-X Series Switches

- Catalyst 4500-X hardware installation information is available at:  
[http://www.cisco.com/en/US/products/ps12332/prod\\_installation\\_guides\\_list.html](http://www.cisco.com/en/US/products/ps12332/prod_installation_guides_list.html)
- *Regulatory Compliance and Safety Information for the Cisco Catalyst 4500-X Series Switches*

[http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst4500x/regulatory\\_compliance/OL\\_26538.html](http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst4500x/regulatory_compliance/OL_26538.html)

## Software Documentation

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

- Cisco 4500-X release notes are available at:  
[http://www.cisco.com/en/US/products/ps12332/prod\\_release\\_notes\\_list.html](http://www.cisco.com/en/US/products/ps12332/prod_release_notes_list.html)
- Catalyst 4500E 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)

Software documents for the Catalyst 4500 E-Series and Catalyst 4500-X Series 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. These documents and tools are available at the following URLs:

<b>Cisco IOS XE 3E</b>	
Cisco IOS XE Configuration Guides	<a href="http://www.cisco.com/c/en/us/support/ios-nx-os-software/ios-xe-3e/products-installation-and-configuration-guides-list.html">http://www.cisco.com/c/en/us/support/ios-nx-os-software/ios-xe-3e/products-installation-and-configuration-guides-list.html</a>
<b>Cisco IOS 12.4</b>	
Cisco IOS Configuration Guides	<a href="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</a>
Cisco IOS Command References	<a href="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</a>
Cisco IOS System Messages	<a href="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</a>

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## Tools

Command Lookup

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

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## Commands in Task Tables

Commands listed in task tables show only the relevant information for completing the task and not all available options for the command. For a complete description of a command, refer to the command reference guide.

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This product includes software written by Tim Hudson (tjh@cryptsoft.com).

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