



## Preface

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### Audience

This guide is for the networking professional using the Cisco IOS command-line interface (CLI) to manage the Catalyst 3750 switch, hereafter referred to as *the switch*. Before using this guide, you should have experience working with the Cisco IOS commands and the switch software features. Before using this guide, you should have experience working with the concepts and terminology of Ethernet and local area networking.

### Purpose

The Catalyst 3750 switch is supported by either the IP base image, formerly known as the standard multilayer image (SMI), or the IP services image, formerly known as the enhanced multilayer image (EMI). The IP base image provides Layer 2+ features including access control lists (ACLs), quality of service (QoS), static routing, and the Routing Information Protocol (RIP). The IP services image provides a richer set of enterprise-class features. It includes Layer 2+ features and full Layer 3 routing (IP unicast routing, IP multicast routing, and fallback bridging). To distinguish it from the Layer 2+ static routing and RIP, the IP services image includes protocols such as the Enhanced Interior Gateway Routing Protocol (EIGRP) and Open Shortest Path First (OSPF) Protocol.

This guide provides the information that you need about the Layer 2 and Layer 3 commands that have been created or changed for use with the Catalyst 3750 switches. For information about the standard Cisco IOS Release 12.2 commands, see the Cisco IOS documentation set available from the Cisco.com home page by selecting **Technical Support & Documentation > Cisco IOS Software**.

This guide does not provide procedures for configuring your switch. For detailed configuration procedures, see the software configuration guide for this release.

This guide does not describe system messages you might encounter. For more information, see the system message guide for this release.

For documentation updates, see the release notes for this release.

# Conventions

This publication uses these 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*.
- Square brackets ( [ ] ) means optional elements.
- Braces ( { } ) group required choices, and vertical bars ( | ) separate the alternative elements.
- Braces and vertical bars within square brackets ( [ { | } ] ) mean a required choice within an optional element.

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 warnings use these conventions and symbols:




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**Note**

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

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**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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## Related Publications

These documents provide complete information about the switch and are available from this Cisco.com site:

[http://www.cisco.com/en/US/products/hw/switches/ps5023/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/hw/switches/ps5023/tsd_products_support_series_home.html)




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**Note**

Before installing, configuring, or upgrading the switch, see these documents:

- For initial configuration information, see the “Using Express Setup” section in the getting started guide or the “Configuring the Switch with the CLI-Based Setup Program” appendix in the hardware installation guide.
- For device manager requirements, see the “System Requirements” section in the release notes (not orderable but available on Cisco.com).
- For Network Assistant requirements, see the *Getting Started with Cisco Network Assistant* (not orderable but available on Cisco.com).

- For cluster requirements, see the *Release Notes for Cisco Network Assistant* (not orderable but available on Cisco.com).
- For upgrade information, see the “Downloading Software” section in the release notes.

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You can order printed copies of documents with a DOC-xxxxxx= number from the Cisco.com sites and from the telephone numbers listed in the URL referenced in [Obtaining Documentation, Obtaining Support, and Security Guidelines, page xxii](#).

- *Release Notes for the Catalyst 3750, 3560, 2970, and 2960 Switches* (not orderable but available on Cisco.com)
- *Catalyst 3750 Switch Software Configuration Guide* (not orderable but available on Cisco.com)
- *Catalyst 3750 Switch Command Reference* (not orderable but available on Cisco.com)
- Device manager online help (available on the switch)
- *Catalyst 3750 Switch Hardware Installation Guide* (not orderable but available on Cisco.com)
- *Catalyst 3750 Switch Getting Started Guide* (order number DOC-7816663=)
- *Catalyst 3750 Integrated Wireless LAN Controller Switch Getting Started Guide* (order number DOC-7817540=)
- *Regulatory Compliance and Safety Information for the Catalyst 3750 Switch* (order number DOC-7816664)
- *Catalyst 3750, 3560, 3550, 2970, and 2960 Switch System Message Guide* (not orderable but available on Cisco.com)
- *Getting Started with Cisco Network Assistant* (not orderable but available on Cisco.com)
- *Release Notes for Cisco Network Assistant* (not orderable but available on Cisco.com)
- *Cisco Small Form-Factor Pluggable Modules Installation Notes* (order number DOC-7815160=)
- *Cisco CWDM GBIC and CWDM SFP Modules Installation Note* (not orderable but available on Cisco.com)
- *Cisco RPS 300 Redundant Power System Hardware Installation Guide* (order number DOC-7810372=)
- *Cisco RPS 675 Redundant Power System Hardware Installation Guide* (order number DOC-7815201=)
- *Cisco Redundant Power System 2300 Hardware Installation Guide* (order number DOC-7817647=)
- For information about the Network Admission Control (NAC) features, see the *Network Admission Control Software Configuration Guide* (not orderable but available on Cisco.com)
- These compatibility matrix documents are available from this Cisco.com site:

[http://www.cisco.com/en/US/products/hw/modules/ps5455/products\\_device\\_support\\_tables\\_list.html](http://www.cisco.com/en/US/products/hw/modules/ps5455/products_device_support_tables_list.html)

- *Cisco Gigabit Ethernet Transceiver Modules Compatibility Matrix* (not orderable but available on Cisco.com)
- *Cisco 100-Megabit Ethernet SFP Modules Compatibility Matrix* (not orderable but available on Cisco.com)
- *Cisco Small Form-Factor Pluggable Modules Compatibility Matrix* (not orderable but available on Cisco.com)
- *Compatibility Matrix for 1000BASE-T Small Form-Factor Pluggable Modules* (not orderable but available on Cisco.com)

These documents provide complete information about the Catalyst 3750G Integrated Wireless LAN Controller Switch and the integrated wireless LAN controller and are available at [cisco.com](http://cisco.com):

- *Catalyst 3750 Integrated Wireless LAN Controller Switch Getting Started Guide* (order number DOC-7817540=)
- *Release Notes for Cisco Wireless LAN Controller and Lightweight Access Point, Release 4.0.x.0*
- *Cisco Wireless LAN Controller Configuration Guide, Release 4.0*
- *Cisco Wireless LAN Controller Command Reference, Release 4.0*

## Obtaining Documentation, Obtaining Support, and Security Guidelines

For information on obtaining documentation, obtaining support, providing documentation feedback, security guidelines, and also recommended aliases and general Cisco documents, 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>