



Preface

Audience

This guide is for the networking professional using the Cisco IOS command-line interface (CLI) to manage the Cisco Metro Ethernet (ME) 3400 Series Ethernet Access 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. You should also have experience working with the concepts and terminology of Ethernet and local area networking.

Purpose

The switch ships with one of these software images installed:

- The metro base image provides basic Metro Ethernet features.
- The metro access image includes additional features such as IEEE 802.1Q tunneling, Layer 2 protocol tunneling, dynamic ARP inspection, and IP source guard.
- The metro IP access image adds Layer 3 functionality such as IP routing support for Routing Information Protocol (RIP), Open Shortest Path First (OSPF) Protocol, Border Gateway Protocol (BGP), and Enhanced Interior Gateway Routing Protocol (EIGRP), multiple VPN routing/forwarding on customer edge (multi-VRF-CE) devices, and IP multicast routing.

This guide provides the information you need about the Layer 2 and Layer 3 commands that have been created or changed for use with the Cisco ME 3400 Ethernet Access switch. 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 **Service and Support > Technical Documents**. On the Cisco Product Documentation home page, select **Release 12.2** from the Cisco IOS Software drop-down list.

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 the latest 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:



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.

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/ps6580/tsd_products_support_series_home.html



Note

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

- For initial configuration information, see the “Configuring the Switch with the CLI-Based Setup Program” appendix in the hardware installation guide.
- For upgrading information, see the “Downloading Software” section in the release notes.

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 the “[Obtaining Documentation, Obtaining Support, and Security Guidelines](#)” section.

- *Release Notes for the Cisco ME 3400 Ethernet Access Switch* (not orderable but available on Cisco.com)

- *Cisco ME 3400 Ethernet Access Switch Software Configuration Guide* (not orderable but available on Cisco.com)
- *Cisco ME 3400 Ethernet Access Switch Command Reference* (not orderable but available on Cisco.com)
- *Cisco ME 3400 and ME 2400 Ethernet Access Switches System Message Guide* (not orderable but available on Cisco.com)
- *Cisco ME 3400 Ethernet Access Switch Hardware Installation Guide* (not orderable but available on Cisco.com)
- *Cisco ME 3400 and ME 2400 Ethernet Access Switches Getting Started Guide* (order number DOC-7817050=)
- *Regulatory Compliance and Safety Information for the Cisco ME 3400 and ME 2400 Ethernet Access Switches* (order number DOC-7817051)
- *Cisco Small Form-Factor Pluggable Modules Installation Notes* (order number DOC-7815160=)
- *Cisco CWDM GBIC and CWDM SFP Installation Note* (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

- *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)

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>

