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.

- *Release Notes for the Cisco ME 3400 Ethernet Access Switch*
- *Cisco ME 3400 Ethernet Access Switch Software Configuration Guide*
- *Cisco ME 3400 Ethernet Access Switch Command Reference*
- *Cisco ME 3400E, ME 3400, and ME 2400 Switch System Message Guide*
- *Cisco ME 3400 Ethernet Access Switch Hardware Installation Guide*

- *Cisco ME 3400 and ME 2400 Ethernet Access Switches Getting Started Guide*
- *Regulatory Compliance and Safety Information for the Cisco ME 3400 and ME 2400 Ethernet Access Switches*
- *Cisco Small Form-Factor Pluggable Modules Installation Notes*
- *Cisco CWDM GBIC and CWDM SFP Installation Note*
- 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*
  - *Cisco 100-Megabit Ethernet SFP Modules Compatibility Matrix*
  - *Cisco Small Form-Factor Pluggable Modules Compatibility Matrix*
  - *Compatibility Matrix for 1000BASE-T Small Form-Factor Pluggable Modules*

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

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