



Preface

Audience

This guide is for the networking professional using the Cisco IOS command-line interface (CLI) to manage the Catalyst 2960 and 2960-S 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

Catalyst 2960 and 2960-S switches run one of these images:

- The LAN base software image provides enterprise-class intelligent services such as access control lists (ACLs) and quality of service (QoS) features. On a Catalyst 2960-S switch, stacking is also supported.
- The LAN Lite image provides reduced functionality.

The Catalyst 2960-S ships with a universal image that includes cryptographic functionality. The software image on the switch is either the LAN base or LAN Lite image, depending on the switch model. To determine which image your switch is running:

- Switches running the LAN Lite image do not support the FlexStack module. They do not have a FlexStack module slot on the rear of the switch.
- On the front of the switch, the label in the top right corner ends in -S if the switch model runs the LAN Lite image.
- Enter the show version privileged EXEC command. The line that shows the product ID also ends in either -L (if running the LAN base image) or -S (if running the LAN Lite image). For example, WS-C2960S-48PD-L is running LAN base; WS-C2960S-24TS-S is running LAN Lite image.
- Enter the show license privileged EXEC command, and see which is the active image:

```
Switch# show license
Index 1 Feature: lanlite
      Period left: 0 minute 0 second
Index 2 Feature: lanbase
      Period left: Life time
      License Type: Permanent
      License State: Active, In Use
      License Priority: Medium
      License Count: Non-Counted
```

This guide provides the information that you need about the Layer 2 commands that have been created or changed for use with the Catalyst 2960 and 2960-S 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:



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/ps6406/tsd_products_support_series_home.html



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.

See these documents for other information about the switches:

- *Release Notes for the Catalyst 3750, 3560, 2975, and 2960 Switches*
- *Release Notes for the Catalyst 2960-S switches*
- *Catalyst 2960 Switch Getting Started Guide*
- *Catalyst 2960-S Switch Getting Started Guide*
- *Catalyst 2960 and 2960-S Switch Software Configuration Guide*
- *Catalyst 2960 and 2960-S Switch Command Reference*
- *Catalyst 2960 Switch Hardware Installation Guide*
- *Catalyst 2960-S Switch Hardware Installation Guide*
- *Regulatory Compliance and Safety Information for the Catalyst 2960 and 2960-S Switch*
- *Catalyst 3750, 3560, 3550, 2975, 2975, 2970, 2960, and 2960-S Switch System Message Guide*
- *Release Notes for Cisco Network Assistant*
- *Getting Started with Cisco Network Assistant*
- *Cisco RPS 300 Redundant Power System Hardware Installation Guide*
- *Cisco RPS 675 Redundant Power System Hardware Installation Guide*
- *Cisco Redundant Power System 2300 Hardware Installation Guide*
- For more information about the Network Admission Control (NAC) features, see the *Network Admission Control Software Configuration Guide*.
- Information about Cisco SFP, SFP+, and GBIC modules is available from this Cisco.com site:

http://www.cisco.com/en/US/products/hw/modules/ps5455/prod_installation_guides_list.html

These SFP 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

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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