Release Notes for Cisco IOS Release 12.4

April 24, 2009

Cisco IOS Release 12.4(25)

Text Part Number OL-7661-15

Note See the "Important Notes" section on page 232 for important information about Cisco IOS Release 12.4.

These release notes support Cisco IOS Release 12.4. They are updated to describe new memory requirements, hardware support, software platform deferrals, and related documents.

For a list of the software caveats that apply to Cisco IOS Release 12.4, see the *Caveats for Cisco IOS Release 12.4* document, which accompanies these release notes. The caveats document is updated for every maintenance release and is located on Cisco.com.

We recommend that you view the field notices for this release to see if your software or hardware platforms are affected. If you have an account on Cisco.com, you can find field notices at http://www.cisco.com/kobayashi/support/tac/fn_index.html. If you do not have a Cisco.com login account, you can find field notices at http://www.cisco.com/public/support/tac/fn_index.html.

Contents

These release notes contain the following sections:

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Cross-Platform System Requirements

This section describes the system requirements for Cisco IOS Release 12.4 and includes the following sections:

Supported Hardware Platforms

Cisco IOS Release 12.4 supports the following Cisco hardware platforms:

- SOHO 70 and SOHO 90 series routers
- Cisco Small Business 100 series routers
- Cisco VG224 analog gateway
- Cisco 800 series routers
- Cisco 1700 series routers
- Cisco 1800 series routers (modular)
- Cisco MWR 1900 series routers
- Cisco IAD2430 series
- Cisco 2600XM series and Cisco 2691
- Cisco 2800 series routers
- Cisco 3200 series mobile access routers
- Cisco 3600 series routers
- Cisco 3700 series routers
- Cisco 3800 series routers
- Cisco Catalyst 4500 access gateway modules
- Cisco AS5350 and Cisco AS5350XM universal gateways
- Cisco AS5400, Cisco AS5400HPX, and Cisco AS5400XM universal gateways
- Cisco AS5850 universal gateways
- Cisco Catalyst 6000/Cisco 7600 MWAM
- Cisco Catalyst 6500/Cisco 7600 communication media module
- Cisco 7000 family routers
- Cisco IGX 8400 series URM
- Cisco MGX 8850 route processor modules
- Cisco signaling link terminals

For detailed descriptions of the new hardware features, see the "New and Changed Information" section on page 99.

Determining Your Software Version

To determine the version of Cisco IOS software that is currently running on your Cisco network device, log in to the device and enter the **show version** EXEC command:

```
Router> show version

Cisco Internetwork Operating System Software

IOS (tm) 12.4 Software (C2600-I-MZ), Version 12.4(1), RELEASE SOFTWARE
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Upgrading to a New Release

For information about selecting a new Cisco IOS software release, see *How to Choose a Cisco IOS Software Release* at the following URL:

http://www.cisco.com/en/US/products/sw/iosswrel/ps1834/products_tech_note09186a00800fb9d9.shtml

For information about upgrading to a new software release, see the appropriate platform-specific documents:

- Cisco Small Business 100 Series Routers

  http://www.cisco.com/en/US/products/ps6216/tsd_products_support_install_and_upgrade.html

- Cisco 1700 Series Routers

  http://www.cisco.com/en/US/products/hw/routers/ps259/products_tech_note09186a00801fc986.shtml

- Cisco 1800 Series Routers

  http://www.cisco.com/en/US/products/ps5853/tsd_products_support_series_home.html

- Cisco MWR 1900 Series Routers

  http://www.cisco.com/en/US/products/hw/routers/ps4062/tsd_products_support_series_home.html

- Cisco IAD2430 Integrated Access Device

  http://www.cisco.com/en/US/products/hw/gatecont/ps887/prod_installation_guides_list.html

- Cisco 2600XM and Cisco 2691 Series Routers

  http://www.cisco.com/en/US/products/hw/routers/ps259/products_tech_note09186a00801fc986.shtml

- Cisco 2800 Series Routers

  http://www.cisco.com/en/US/products/ps5854/tsd_products_support_install_and_upgrade.html

- Cisco 3200 Series Mobile Access Routers

  http://www.cisco.com/en/US/prod/collateral/routers/ps272/product_data_sheet0900aecd8028e3a7.html

- Cisco 3600 Series Multiservice Platforms

  http://www.cisco.com/en/US/products/hw/routers/ps259/products_tech_note09186a00801fc986.shtml

- Cisco 3700 Series Routers

  http://www.cisco.com/en/US/products/hw/routers/ps259/products_tech_note09186a00801fc986.shtml

- Cisco 3800 Series Routers

    http://www.cisco.com/en/US/products/ps5855/tsd_products_support_series_home.html

- Cisco Catalyst 4500 Series Switches

    http://www.cisco.com/en/US/products/hw/switches/ps663/products_configuration_example09186a00801461ef.shtml

- Cisco AS5350 Series Universal Gateways

    http://www.cisco.com/en/US/products/hw/univgate/ps501/tsd_products_support_install_and_upgrade.html

- Cisco AS5400 Series Universal Gateways

    http://www.cisco.com/en/US/products/hw/univgate/ps505/tsd_products_support_install_and_upgrade.html

- Cisco AS5850 Series Universal Gateways

    http://www.cisco.com/en/US/products/hw/univgate/ps509/products_tech_note09186a008014f8e2.shtml

- Cisco Catalyst 6500/Cisco 7600 Communication Media Module

    http://www.cisco.com/en/US/products/hw/switches/ps708/tsd_products_support_install_and_upgrade.html

- Cisco 7000 Series Routers

    http://www.cisco.com/en/US/products/hw/routers/ps133/products_tech_note09186a0080094c07.shtml

For instructions on ordering a Cisco IOS upgrade, see the document at the following location:

http://www.cisco.com/warp/public/cc/pd/iosw/prodlit/957_pp.htm

To choose a new Cisco IOS software release by comparing feature support or memory requirements, use Cisco Feature Navigator. Cisco Feature Navigator is a web-based tool that enables you to determine which Cisco IOS software images support a specific set of features and which features are supported in a specific Cisco IOS image. You can search by feature or by feature set (software image). Under the release section, you can compare Cisco IOS software releases side by side to display both the features unique to each software release and the features that the releases have in common.

Cisco Feature Navigator is updated regularly when major Cisco IOS software releases and technology releases occur. For the most current information, go to the Cisco Feature Navigator home page at the following URL:

http://www.cisco.com/go/cfn

To choose a new Cisco IOS software release based on information about defects that affect that software, use Bug Toolkit at the following URL:

http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl