



Release Notes for Cisco IOS Release 12.1

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Cisco IOS Release 12.1(27)

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Note

See the [“Important Notes” section on page 183](#) for important information about Cisco IOS Release 12.1.

These release notes support Cisco IOS Release 12.1. These release notes are updated to describe new memory requirements, hardware support, software image deferrals, and changes to the microcode or modem code and related documents.

Cisco IOS Release 12.1(13) and all subsequent 12.1 releases are deemed “Generally Deployable.” Cisco believes that Release 12.1 is suitable for deployment anywhere in the network where the features and functionality of the release are required.

For a list of the software caveats that apply to Release 12.1, see the [Caveats for Cisco IOS Release 12.1](#) document that accompanies these release notes. The caveats document is updated for every maintenance release and is located on Cisco.com.

Cisco recommends 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.

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Cross-Platform System Requirements

This section describes the system requirements for Release 12.1 and includes the following sections:

- [Supported Hardware Platforms, page 2](#)
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Supported Hardware Platforms

Cisco IOS Release 12.1 supports the following Cisco hardware platforms:

- | | |
|--|--|
| <ul style="list-style-type: none"> • Cisco 800 series • Cisco uBR900 series • Cisco uBR920 series • Cisco 1000 series • Cisco 1400 series • Cisco 1600 series • Cisco 1700 series • Cisco 2500 series • Cisco 2600 series • Cisco 3600 series • Cisco MC3810 multiservice access concentrator | <ul style="list-style-type: none"> • Cisco 4000 series • Cisco AS5200 universal access servers • Cisco AS5300 universal access servers • Cisco AS5800 universal access servers • Cisco Catalyst 5000 family RSM/VIP2 • Cisco Catalyst 5000 RSFC • Cisco 7000 family • Cisco uBR7200 series • Cisco 15104 Optical Networking System • Cisco MGX 8850 Route Processor Module (RPM) |
|--|--|

For detailed descriptions of the new hardware features, see [“New and Changed Information” section on page 99](#).

Determining Your Software Version

To determine the version of Cisco IOS software 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) 12.1 Software (C2500-D-L), Version
12.1(1), RELEASE SOFTWARE
```

Upgrading to a New Release

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

http://www.cisco.com/warp/public/130/choosing_ios.shtml

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

- Cisco 800 Series Routers
http://www.cisco.com/en/US/partner/products/hw/routers/ps380/products_tech_note09186a0080094b23.shtml
- Cisco uBR900 Series Cable Access Routers
http://www.cisco.com/en/US/products/hw/cable/ps2221/products_tech_note09186a0080093d7c.shtml
- Cisco 1000 Series Routers
http://www.cisco.com/en/US/products/hw/routers/ps259/products_tech_note09186a00801fc986.shtml
- Cisco 1400 Series Routers
http://www.cisco.com/en/US/products/hw/routers/ps259/products_tech_note09186a00801fc986.shtml
- Cisco 1600 Series Routers
http://www.cisco.com/en/US/products/hw/routers/ps259/products_tech_note09186a00801fc986.shtml
- Cisco 1700 Series Routers
http://www.cisco.com/en/US/products/hw/routers/ps259/products_tech_note09186a00801fc986.shtml
- Cisco 2500 Series Routers
http://www.cisco.com/en/US/products/hw/routers/ps259/products_tech_note09186a00801fc986.shtml
- Cisco 2600 Series Multiservice Platforms
http://www.cisco.com/en/US/products/hw/routers/ps259/products_tech_note09186a00801fc986.shtml
- Cisco 3600 Series Multiservice Platforms
http://www.cisco.com/en/US/products/hw/routers/ps259/products_tech_note09186a00801fc986.shtml

- Cisco MC3810 Multiservice Access Concentrators
http://www.cisco.com/en/US/products/hw/routers/ps259/products_tech_note09186a00801fc986.shtml
- Cisco 4000 Series, 4500 Series, and 4700 Series Routers
http://www.cisco.com/en/US/products/hw/routers/ps259/products_tech_note09186a00801fc986.shtml
- Cisco Catalyst 5000 Series Switches
http://www.cisco.com/en/US/products/hw/switches/ps700/products_tech_note09186a00801347e2.shtml
- Cisco AS5200 Series
http://www.cisco.com/en/US/products/hw/iad/ps497/products_tech_note09186a0080110d2c.shtml
- Cisco AS5300 Series Universal Gateways
http://www.cisco.com/en/US/products/hw/routers/ps259/products_tech_note09186a00801fc986.shtml
- Cisco AS5800 Series Universal Gateways
http://www.cisco.com/en/US/products/hw/univgate/ps509/products_tech_note09186a008014f8e2.shtml
- Cisco 7200 Series, 7300 Series, 7400 Series, and 7500 Series Routers
http://www.cisco.com/en/US/products/hw/routers/ps133/products_tech_note09186a0080094c07.shtml
- Cisco uBR7200 Series Universal Broadband Routers
http://www.cisco.com/en/US/products/hw/cable/ps2217/products_configuration_guide_chapter09186a00801170d8.html

For *Cisco IOS Upgrade Ordering Instructions*, 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.

To access Cisco Feature Navigator, you must have an account on Cisco.com. If you have forgotten or lost your account information, send a blank e-mail to cco-locksmith@cisco.com. An automatic check will verify that your e-mail address is registered with Cisco.com. If the check is successful, account details with a new random password will be e-mailed to you. Qualified users can establish an account on Cisco.com by following the directions found at this URL:

<http://tools.cisco.com/RPF/register/register.do>

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://tools.cisco.com/ITDIT/CFN/jsp/index.jsp>

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

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

MIBs

To locate and download MIBs for selected platforms, Cisco IOS releases, and feature sets, use Cisco MIB Locator found at the following URL:

<http://tools.cisco.com/ITDIT/MIBS/servlet/index>

If Cisco MIB Locator does not support the MIB information that you need, you can also obtain a list of supported MIBs and download MIBs from the Cisco MIBs page at the following URL:

<http://www.cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml>

To access Cisco MIB Locator, you must have an account on Cisco.com. If you have forgotten or lost your account information, send a blank e-mail to cco-locksmith@cisco.com. An automatic check will verify that your e-mail address is registered with Cisco.com. If the check is successful, account details with a new random password will be e-mailed to you. Qualified users can establish an account on Cisco.com by following the directions found at this URL:

<http://tools.cisco.com/RPF/register/register.do>

Current MIBs

To obtain lists of supported MIBs by platform and Cisco IOS release, and to download MIB modules, go to the Cisco MIB website on Cisco.com at the following URL:

<http://www.cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml>

Deprecated and Replacement MIBs

Older Cisco MIBs will be replaced in a future release. Currently, OLD-CISCO-* MIBS are being converted into more scalable MIBs without affecting existing Cisco IOS products or network management system (NMS) applications. You can update from deprecated MIBs to the replacement MIBs as shown in [Table 1](#).

Table 1 *Deprecated MIBS*

Deprecated MIB	Replacement
OLD-CISCO-APPLETALK-MIB	RFC1243-MIB
OLD-CISCO-CHASSIS-MIB	ENTITY-MIB
OLD-CISCO-CPUK-MIB	In Development
OLD-CISCO-DECNET-MIB	In Development

Table 1 *Deprecated MIBS (continued)*

Deprecated MIB	Replacement
OLD-CISCO-ENV-MIB	CISCO-ENVMON-MIB
OLD-CISCO-FLASH-MIB	CISCO-FLASH-MIB
OLD-CISCO-INTERFACES-MIB	IF-MIB CISCO-QUEUE-MIB
OLD-CISCO-IP-MIB	In Development
OLD-CISCO-MEMORY-MIB	CISCO-MEMORY-POOL-MIB
OLD-CISCO-NOVELL-MIB	NOVELL-IPX-MIB
OLD-CISCO-SYS-MIB	(Compilation of other OLD* MIBS)
OLD-CISCO-SYSTEM-MIB	CISCO-CONFIG-COPY-MIB
OLD-CISCO-TCP-MIB	CISCO-TCP-MIB
OLD-CISCO-TS-MIB	In Development
OLD-CISCO-VINES-MIB	CISCO-VINES-MIB
OLD-CISCO-XNS-MIB	In Development