



# Release Notes for Cisco IOS Release 15.1M&T

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**Release: Cisco IOS Release 15.1(4)M7**

**Part Number: OL-22146-04 Rev. P0**

These release notes support Cisco IOS Release 15.1M&T up to and including Cisco IOS Release 15.1(4)M7. They are updated to describe new features and related documents.

Cisco IOS Release 15.1M&T integrates a portfolio of over 2000 key capabilities that span multiple technology areas, including Security, Voice, Multiprotocol Label Switching (MPLS), IP Services, and Embedded Management.

Key highlights of Cisco IOS Release 15.1M&T include the following:

- Ideal for very latest features and hardware support.
- Incorporates features and hardware support previously delivered in Cisco IOS Release 15.0(1)M and prior releases.
- Positioned for short deployment cycle (until next Extended Maintenance release becomes available).
- Standard maintenance bug-fix rebuild for 13 months, plus an additional 6 months support for security/vulnerability issues such as Cisco Product Security Incident Response Team (PSIRT) advisories (see [http://www.cisco.com/en/US/products/products\\_security\\_advisories\\_listing.html](http://www.cisco.com/en/US/products/products_security_advisories_listing.html)).
- Rebuilds of Cisco IOS Release 15.1M&T that contain bug fixes only.

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## Cross-Platform System Requirements

This section describes the system requirements for Cisco IOS Release 15.1M&T and includes the following sections:

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

Cisco IOS Release 15.1M&T supports the following Cisco hardware platforms:

- Cisco 800 series routers
- Cisco 1800 series routers
- Cisco 1900 series integrated services routers
- Cisco 2800 series integrated services routers
- Cisco 2900 series integrated services routers
- Cisco 3800 series integrated services routers
- Cisco 3900 series integrated services routers
- Cisco AS5350XM universal gateways
- Cisco AS5400XM universal gateways
- Cisco CGR 2000 series
- Cisco IAD2430 series integrated access devices
- Cisco IAD2801 series integrated access devices
- Cisco unified communications 500 series
- Cisco VG200 series analog voice gateways
- Cisco VGD 1 T3 voice gateways

**Note**

Cisco 7200 series and Cisco 7301 routers will continue to be supported in Cisco IOS 15.n(n)M releases. Only the Cisco IOS 15.n(n)T releases will not support the Cisco 7200 series and Cisco 7301 routers.

For more information about the platforms supported in Cisco IOS Release 15.1M&T, see the “Platform-Specific Information” section on page 10.

## 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** user EXEC command:

```
Router> show version
```

```
Cisco Internetwork Operating System Software IOS (tm)  
15.1 Software (c2430-is-mz), Version 15.1(1)T, RELEASE SOFTWARE
```

## 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](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 VG202, Cisco VG204, Cisco VG224  
[http://www.cisco.com/en/US/products/hw/gatecont/ps2250/prod\\_installation\\_guides\\_list.html](http://www.cisco.com/en/US/products/hw/gatecont/ps2250/prod_installation_guides_list.html)
- Cisco 800 series routers  
[http://www.cisco.com/en/US/products/hw/routers/ps380/prod\\_installation\\_guides\\_list.html](http://www.cisco.com/en/US/products/hw/routers/ps380/prod_installation_guides_list.html)
- Cisco 1800 series routers  
[http://www.cisco.com/en/US/products/ps5853/prod\\_installation\\_guides\\_list.html](http://www.cisco.com/en/US/products/ps5853/prod_installation_guides_list.html)
- Cisco 2800 series routers  
[http://www.cisco.com/en/US/products/ps5854/prod\\_installation\\_guides\\_list.html](http://www.cisco.com/en/US/products/ps5854/prod_installation_guides_list.html)
- Cisco 3800 series routers  
[http://www.cisco.com/en/US/products/ps5855/prod\\_installation\\_guides\\_list.html](http://www.cisco.com/en/US/products/ps5855/prod_installation_guides_list.html)
- Cisco AS5350XM series universal gateways  
[http://www.cisco.com/en/US/products/hw/univgate/ps501/prod\\_installation\\_guides\\_list.html](http://www.cisco.com/en/US/products/hw/univgate/ps501/prod_installation_guides_list.html)
- Cisco AS5400XM series universal gateways  
[http://www.cisco.com/en/US/products/hw/univgate/ps501/prod\\_installation\\_guides\\_list.html](http://www.cisco.com/en/US/products/hw/univgate/ps501/prod_installation_guides_list.html)

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](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](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](mailto: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>

## Field Notices and Software-Related Tools and Information

We recommend that you view the field notices for this release to see if your software or hardware platforms are affected. You can find Field Notices at

[http://www.cisco.com/en/US/support/tsd\\_products\\_field\\_notice\\_summary.html](http://www.cisco.com/en/US/support/tsd_products_field_notice_summary.html).

Visit the Software Center/Download Software page on Cisco.com to subscribe to Cisco software notifications, locate MIBs, access the Software Advisor, and find other Cisco software-related information and tools. Access the Software Center/Download Software page at

<http://www.cisco.com/cisco/software/navigator.html>.

## Troubleshooting

The following documents provide assistance with troubleshooting your Cisco hardware and software:

- *Hardware Troubleshooting Index Page*  
[http://www.cisco.com/en/US/products/hw/routers/ps214/products\\_tech\\_note09186a008012fb88.shtml](http://www.cisco.com/en/US/products/hw/routers/ps214/products_tech_note09186a008012fb88.shtml)
- *Troubleshooting Bus Error Exceptions*  
[http://www.cisco.com/en/US/products/sw/iosswrel/ps1831/products\\_tech\\_note09186a00800cdd51.shtml](http://www.cisco.com/en/US/products/sw/iosswrel/ps1831/products_tech_note09186a00800cdd51.shtml)
- *Why Does My Router Lose Its Configuration During Reboot?*  
[http://www.cisco.com/en/US/products/hw/routers/ps233/products\\_tech\\_note09186a00800a65a5.shtml](http://www.cisco.com/en/US/products/hw/routers/ps233/products_tech_note09186a00800a65a5.shtml)

- *Troubleshooting Router Hangs*  
[http://www.cisco.com/en/US/products/hw/routers/ps359/products\\_tech\\_note09186a0080106fd7.shtml](http://www.cisco.com/en/US/products/hw/routers/ps359/products_tech_note09186a0080106fd7.shtml)
- *Troubleshooting Memory Problems*  
[http://www.cisco.com/en/US/products/sw/iosswrel/ps1831/products\\_tech\\_note09186a00800a6f3a.shtml](http://www.cisco.com/en/US/products/sw/iosswrel/ps1831/products_tech_note09186a00800a6f3a.shtml)
- *Troubleshooting High CPU Utilization on Cisco Routers*  
[http://www.cisco.com/en/US/products/hw/routers/ps133/products\\_tech\\_note09186a00800a70f2.shtml](http://www.cisco.com/en/US/products/hw/routers/ps133/products_tech_note09186a00800a70f2.shtml)
- *Troubleshooting Router Crashes*  
[http://www.cisco.com/en/US/products/hw/iad/ps397/products\\_tech\\_note09186a00800b4447.shtml](http://www.cisco.com/en/US/products/hw/iad/ps397/products_tech_note09186a00800b4447.shtml)
- *Using CAR During DOS Attacks*  
[http://www.cisco.com/en/US/products/sw/iosswrel/ps1835/products\\_tech\\_note09186a00800fb50a.shtml](http://www.cisco.com/en/US/products/sw/iosswrel/ps1835/products_tech_note09186a00800fb50a.shtml)

