

# Feature Support

Cisco IOS software is packaged in feature sets that consist of software images that support specific platforms. The feature sets available for a specific platform depend on which Cisco IOS software images are included in a release. Each feature set contains specific Cisco IOS features.



## Caution

Cisco IOS images with strong encryption (including, but not limited to 168-bit [3DES] data encryption feature sets) are subject to U.S. government export controls and have limited distribution. Strong encryption images to be installed outside the United States are likely to require an export license. Customer orders may be denied or subject to delay because of U.S. government regulations. When applicable, the purchaser/user must obtain local import and use authorizations for all encryption strengths. Please contact your sales representative or distributor for more information, or send an e-mail to [export@cisco.com](mailto:export@cisco.com).

Feature-to-image mapping is available through 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). 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:

[www.cisco.com/go/cfn](http://www.cisco.com/go/cfn)

For help with Cisco Feature Navigator, see the help information at the following URL:

[http://www.cisco.com/web/applicat/CFNTOOLS/Help\\_Docs/help/cfn\\_support.html](http://www.cisco.com/web/applicat/CFNTOOLS/Help_Docs/help/cfn_support.html)

## Determining the Software Images (Feature Sets) That Support a Specific Feature

To determine which software images (feature sets) in a Cisco IOS release support a specific feature, go to the [Cisco Feature Navigator home page](#) and perform the following steps.

- Step 1** From the Cisco Feature Navigator home page, click **Research Features**.
- Step 2** Select your software type or leave the field as "All".
- Step 3** To find a feature, you can search by either Feature or Technology (select the appropriate button). If you select Search by Feature, you can further filter your search by using the Filter By text box.
- Step 4** Choose a feature from the Available Features text box, and click the **Add** button to add the feature to the Selected Features text box.



## Note

To learn more about a feature in the list, click the **View Desc** button in the Available Features text box.

Repeat this step to add features. A maximum of 20 features can be chosen for a single search.

- Step 5** Click **Continue** when you are finished choosing features.

- Step 6** In the Release/Platform Tree area, select either your release (from the Train-Release list) or your platform (from the Platform list).
- Step 7** The “Search Result” table will list all the software images (feature sets) that support the features that you chose.



**Note** You can download your results into an Excel spreadsheet by clicking on the Download Excel button.

## Determining the Features Supported in a Specific Software Image (Feature Set)

To determine which features are supported in a specific software image (feature set), go to the [Cisco Feature Navigator home page](#) and perform the following steps.

- Step 1** From the Cisco Feature Navigator home page, click **Research Software**.
- Step 2** Select your software type from the drop-down list and chose the **Release** button in the “Search By” area.
- Step 3** From the Major Release drop-down list, chose the appropriate major release.
- Step 4** From the Release drop-down list, choose the appropriate maintenance release.
- Step 5** From the Platform drop-down list, choose the appropriate hardware platform.
- Step 6** From the Feature Set drop-down list, choose the appropriate feature set. The Image Details area will provide details on the specific image. The Available Features area will list all the features that are supported by the feature set (software image) that you chose.



**Note** To learn more about a feature in the list, click the **View Desc** button in the Available Features text box.

## Memory Recommendations

To determine memory recommendations for software images (feature sets) in your Cisco IOS release, go to the [Cisco Feature Navigator home page](#) and perform the following steps.

- Step 1** From the Cisco Feature Navigator home page, click **Research Software**.
- Step 2** Select your software type from the drop-down list and choose the **Release** button in the “Search By” area.
- Step 3** From the Major Release drop-down list, choose the appropriate major release.
- Step 4** From the Release drop-down list, choose the appropriate maintenance release.
- Step 5** From the Platform drop-down list, choose the appropriate hardware platform.
- Step 6** From the Feature Set drop-down list, choose the appropriate feature set.

- Step 7** The Image Details area will provide details on the specific image including the DRAM and flash memory recommendations for each image. The Available Features area will list all the features that are supported by the feature set (software image) that you chose.
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# Platform-Specific Information

This section describes the platform-specific information for the following Cisco platforms supported by Cisco IOS Release 15.1M&T:

- [Cisco 800 Series Routers, page 11](#)
- [Cisco 1800 Series Routers \(Fixed Configuration and Modular\), page 12](#)
- [Cisco 1900 Series Integrated Services Routers, page 13](#)
- [Cisco 2800 Series Integrated Services Routers, page 14](#)
- [Cisco 2900 Series Integrated Services Routers, page 15](#)
- [Cisco 3800 Series Integrated Services Routers, page 16](#)
- [Cisco 3900 Series Integrated Services Routers, page 17](#)
- [Cisco 7200 Series Routers, page 18](#)
- [Cisco AS5350XM Universal Gateways, page 19](#)
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- [Cisco Connected Grid Router 2000 Series, page 21](#)
- [Cisco IAD2430 Series Integrated Access Devices, page 22](#)
- [Cisco IAD2801 Series Integrated Access Devices, page 23](#)
- [Cisco VG200 Series Analog Voice Gateways, page 24](#)
- [Cisco VGD 1T3 Voice Gateways, page 25](#)

## Cisco 800 Series Routers

Cisco IOS Release 15.1M&T supports the Cisco 800 series routers.

### Introduction

For detailed information about the Cisco 800 series of routers, see the documents at the following location:

<http://www.cisco.com/en/US/products/hw/routers/ps380/index.html>

### Supported Hardware

Cisco IOS Release 15.1M&T supports the following Cisco 800 series routers:

- Cisco 819G, Cisco 819HG
- Cisco 860 (Cisco 861, Cisco 866, Cisco 866 VAE, Cisco 867, Cisco 867 VAE) (Cisco 860 series ISG introduced in Cisco IOS Release 15.1(4)M2)
- Cisco 870 (Cisco 871, Cisco 876, Cisco 877, Cisco 878)
- Cisco 881 (Cisco 881, Cisco 881 CUBE, Cisco 881W, Cisco IAD881, Cisco SRST881)
- Cisco 886 (Cisco 886, Cisco 886 CUBE, Cisco IAD886, Cisco 886 VA, Cisco 886 VA-W)
- Cisco 887 (Cisco 887, Cisco 887 CUBE, Cisco IAD887, Cisco 887 VA, Cisco 887 VA-M, Cisco 887 VA-W, Cisco 887 VAM-W)
- Cisco 888 (Cisco 888, Cisco 888 CUBE, Cisco 888E, Cisco IAD888, Cisco SRST888)
- Cisco 890 (Cisco 891, Cisco 892, Cisco 892F CUBE)

For additional information about supported hardware for this platform and release, go to the Cisco Feature Navigator home page at the following URL:

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

Memory recommendations and feature support information for Cisco IOS Release 15.1M&T are also available through Cisco Feature Navigator.

## Cisco 1800 Series Routers (Fixed Configuration and Modular)

Cisco IOS Release 15.1M&T supports the Cisco 1800 series routers.

### Introduction

For detailed information about the Cisco 1800 series integrated service routers, see the documents at the following location:

<http://www.cisco.com/en/US/products/ps5853/index.html>

### Supported Hardware

Cisco IOS Release 15.1M&T supports the following Cisco 1800 series routers:

- Cisco 1801, Cisco 1802, Cisco 1803, and Cisco 1805, wireless and nonwireless
- Cisco 1811 and Cisco 1812, wireless (fixed configuration)
- Cisco 1811 and Cisco 1812, nonwireless (fixed configuration)
- Cisco 1841, Cisco 1841 VE (modular)
- Cisco 1841C (The Cisco 1841C router is supported in Cisco IOS Release 15.1(1)T1 and later releases.)
- Cisco 1861, Cisco 1861E (integrated services)

For information about the interfaces and modules for this platform, see the following document:

[http://www.cisco.com/en/US/products/ps5853/products\\_relevant\\_interfaces\\_and\\_modules.html](http://www.cisco.com/en/US/products/ps5853/products_relevant_interfaces_and_modules.html)

For additional information about supported hardware for this platform and release, go to the Cisco Feature Navigator home page at the following URL:

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

Memory recommendations and feature support information for Cisco IOS Release 15.1M&T are also available through Cisco Feature Navigator.

# Cisco 1900 Series Integrated Services Routers

Cisco IOS Release 15.1M&T supports the Cisco 1900 series routers.

## Introduction

For detailed information about the Cisco 1900 series integrated service routers, see the documents at the following location:

<http://www.cisco.com/en/US/products/ps10538/index.html>

## Supported Hardware

Cisco IOS Release 15.1M&T supports the following Cisco 1900 series integrated services routers:

- Cisco 1905
- Cisco 1906C
- Cisco 1921
- Cisco 1941
- Cisco 1941W

For information about the interfaces and modules for this platform, see the following document:

[http://www.cisco.com/en/US/products/ps10538/products\\_relevant\\_interfaces\\_and\\_modules.html](http://www.cisco.com/en/US/products/ps10538/products_relevant_interfaces_and_modules.html)

For additional information about supported hardware for this platform and release, go to the Cisco Feature Navigator home page at the following URL:

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

Memory recommendations and feature support information for Cisco IOS Release 15.1M&T are also available through Cisco Feature Navigator.

## Cisco 2800 Series Integrated Services Routers

Cisco IOS Release 15.1M&T supports the Cisco 2800 series integrated service routers.

### Introduction

For detailed information about the Cisco 2800 series integrated service routers, see the documents at the following location:

<http://www.cisco.com/en/US/products/ps5854/index.html>

### Supported Hardware

Cisco IOS Release 15.1M&T supports the following Cisco 2800 series integrated services routers:

- Cisco 2801
- Cisco 2801C (The Cisco 2801C router is supported in Cisco IOS Release 15.1(1)T1 and later releases.)
- Cisco 2811, Cisco 2811 VE
- Cisco 2811C (The Cisco 2811C router is supported in Cisco IOS Release 15.1(1)T1 and later releases.)
- Cisco 2821
- Cisco 2821C (The Cisco 2821C router is supported in Cisco IOS Release 15.1(1)T1 and later releases.)
- Cisco 2851

For information about the interfaces and modules for this platform, see the following document:

[http://www.cisco.com/en/US/products/ps5854/products\\_relevant\\_interfaces\\_and\\_modules.html](http://www.cisco.com/en/US/products/ps5854/products_relevant_interfaces_and_modules.html)

For additional information about supported hardware for this platform and release, go to the Cisco Feature Navigator home page at the following URL:

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

Memory recommendations and feature support information for Cisco IOS Release 15.1M&T are also available through Cisco Feature Navigator.

**Note**

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The minimum DRAM to run c2801-adventerprisek9-mz in Cisco IOS Release 15.1M&T is 192 MB.

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## Cisco 2900 Series Integrated Services Routers

Cisco IOS Release 15.1M&T supports the Cisco 2900 series integrated service routers.

### Introduction

For detailed information about the Cisco 2900 series of routers, see the documents at the following location:

<http://www.cisco.com/en/US/products/ps10537/index.html>

### Supported Hardware

Cisco IOS Release 15.1M&T supports the following Cisco 2900 series integrated services routers:

- Cisco 2901
- Cisco 2911
- Cisco 2921
- Cisco 2951

For information about the interfaces and modules for this platform, see the following document:

[http://www.cisco.com/en/US/products/ps10537/products\\_relevant\\_interfaces\\_and\\_modules.html](http://www.cisco.com/en/US/products/ps10537/products_relevant_interfaces_and_modules.html)

For additional information about supported hardware for this platform and release, go to the Cisco Feature Navigator home page at the following URL:

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

Memory recommendations and feature support information for Cisco IOS Release 15.1M&T are also available through Cisco Feature Navigator.

## Cisco 3800 Series Integrated Services Routers

Cisco IOS Release 15.1M&T supports the Cisco 3800 series integrated service routers.

### Introduction

For detailed information about the Cisco 3800 series of routers, see the documents at the following location:

[http://www.cisco.com/en/US/products/ps5855/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps5855/tsd_products_support_series_home.html)

### Supported Hardware

Cisco IOS Release 15.1M&T supports the following Cisco 3800 series integrated services routers:

- Cisco 3825
- Cisco 3825-NOVPN
- Cisco 3845
- Cisco 3845-NOVPN

For information about the interfaces and modules for this platform, see the following document:

<http://www.cisco.com/en/US/docs/routers/access/3800/hardware/notes/3800ioh.html>

For additional information about supported hardware for this platform and release, go to the Cisco Feature Navigator home page at the following URL:

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

Memory recommendations and feature support information for Cisco IOS Release 15.1M&T are also available through Cisco Feature Navigator.

## Cisco 3900 Series Integrated Services Routers

Cisco IOS Release 15.1M&T supports the Cisco 3900 series integrated service routers.

### Introduction

For detailed information about the Cisco 3900 series of routers, see the documents at the following location:

<http://www.cisco.com/en/US/products/ps10536/index.html>

### Supported Hardware

Cisco IOS Release 15.1M&T supports the following Cisco 3900 series integrated services routers:

- Cisco 3925
- Cisco 3925E
- Cisco 3945
- Cisco 3945E

For information about the interfaces and modules for this platform, see the following document:

[http://www.cisco.com/en/US/products/ps10536/products\\_relevant\\_interfaces\\_and\\_modules.html](http://www.cisco.com/en/US/products/ps10536/products_relevant_interfaces_and_modules.html)

For additional information about supported hardware for this platform and release, go to the Cisco Feature Navigator home page at the following URL:

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

Memory recommendations and feature support information for Cisco IOS Release 15.1M&T are also available through Cisco Feature Navigator.

## Cisco 7200 Series Routers

Cisco IOS Release 15.1M&T supports the Cisco 7200 series routers.

### Introduction

For detailed information about the Cisco 7200 series of routers, see the documents at the following location:

<http://www.cisco.com/en/US/products/hw/routers/ps341/index.html>

### Supported Hardware

Cisco IOS Release 15.1M&T supports the following Cisco 7200 series routers:

- Cisco 7200
- Cisco 7200-NPE-G2
- Cisco 7201
- Cisco 7301

For information about the interfaces and modules for this platform, see the following document:

[http://www.cisco.com/en/US/products/hw/routers/ps341/products\\_relevant\\_interfaces\\_and\\_modules.html](http://www.cisco.com/en/US/products/hw/routers/ps341/products_relevant_interfaces_and_modules.html)

For additional information about supported hardware for this platform and release, go to the Cisco Feature Navigator home page at the following URL:

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

Memory recommendations and feature support information for Cisco IOS Release 15.1M&T are also available through Cisco Feature Navigator.

## Cisco AS5350XM Universal Gateways

Cisco IOS Release 15.1M&T supports the Cisco AS5350XM universal gateways.

### Introduction

For detailed information about the Cisco AS5350XM universal gateway, see the documents at the following location:

<http://www.cisco.com/en/US/products/ps6268/index.html>

### Supported Hardware

Cisco IOS Release 15.1M&T supports the Cisco AS5350XM universal gateways.

For additional information about supported hardware for this platform and release, go to the Cisco Feature Navigator home page at the following URL:

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

Memory recommendations and feature support information for Cisco IOS Release 15.1M&T are also available through Cisco Feature Navigator.

## Cisco AS5400XM Universal Gateways

Cisco IOS Release 15.1M&T supports the Cisco AS5400XM universal gateways.

### Introduction

For detailed information about the Cisco AS5400XM universal gateway, see the documents at the following location:

<http://www.cisco.com/en/US/products/ps6269/index.html>

### Supported Hardware

Cisco IOS Release 15.1M&T supports the Cisco AS5400XM universal gateways.

For additional information about supported hardware for this platform and release, go to the Cisco Feature Navigator home page at the following URL:

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

Memory recommendations and feature support information for Cisco IOS Release 15.1M&T are also available through Cisco Feature Navigator.

## Cisco Connected Grid Router 2000 Series

Cisco IOS Release 15.1M&T supports the Cisco connected grid router 2000 series.

### Introduction

For detailed information about Cisco Connected Grid Routers, see the documents at the following location:

<http://www.cisco.com/en/US/products/ps10977/index.html>

### Supported Hardware

Cisco IOS Release 15.1M&T supports the Cisco Connected Grid Router 2010 (CGR 2010).

For information about the interfaces and modules for this platform, see the following document:

[http://www.cisco.com/en/US/products/ps10977/products\\_relevant\\_interfaces\\_and\\_modules.html](http://www.cisco.com/en/US/products/ps10977/products_relevant_interfaces_and_modules.html)

For additional information about supported hardware for this platform and release, go to the Cisco Feature Navigator home page at the following URL:

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

Memory recommendations and feature support information for Cisco IOS Release 15.1M&T are also available through Cisco Feature Navigator.

## Cisco IAD2430 Series Integrated Access Devices

Cisco IOS Release 15.1M&T supports the Cisco IAD2430 series integrated access devices.

### Introduction

For detailed information about the Cisco IAD2430 series integrated access devices, see the documents at the following location:

<http://www.cisco.com/en/US/products/hw/gatecont/ps887/index.html>

### Supported Hardware

Cisco IOS Release 15.1M&T supports the following Cisco IAD2430 series integrated access devices:

- Cisco IAD2430
- Cisco IAD2431
- Cisco IAD2432
- Cisco IAD2435

For additional information about supported hardware for this platform and release, go to the Cisco Feature Navigator home page at the following URL:

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

Memory recommendations and feature support information for Cisco IOS Release 15.1M&T are also available through Cisco Feature Navigator.



## Cisco IAD2801 Series Integrated Access Devices

Cisco IOS Release 15.1M&T supports the Cisco IAD2801 series integrated access devices.

### Introduction

For detailed information about Cisco IAD2801 series integrated access devices, see the documents at the following location:

[http://www.cisco.com/en/US/products/ps7214/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps7214/tsd_products_support_series_home.html)

### Supported Hardware

Cisco IOS Release 15.1M&T supports the Cisco IAD2801 series integrated access devices.

For additional information about supported hardware for this platform and release, go to the Cisco Feature Navigator home page at the following URL:

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

Memory recommendations and feature support information for Cisco IOS Release 15.1M&T are also available through Cisco Feature Navigator.

## Cisco VG200 Series Analog Voice Gateways

Cisco IOS Release 15.1M&T supports the Cisco VG200 series analog voice gateways.

### Introduction

For detailed information about the Cisco VG200 series analog voice gateways, see the documents at the following location:

<http://www.cisco.com/en/US/products/hw/gatecont/ps2250/index.html>

### Supported Hardware

Cisco IOS Release 15.1M&T supports the following Cisco VG200 series analog voice gateways:

- Cisco VG202
- Cisco VG204
- Cisco VG224

For additional information about supported hardware for this platform and release, go to the Cisco Feature Navigator home page at the following URL:

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

Memory recommendations and feature support information for Cisco IOS Release 15.1M&T are also available through Cisco Feature Navigator.

## Cisco VGD 1T3 Voice Gateways

Cisco IOS Release 15.1M&T supports the Cisco VGD 1T3 series voice gateways.

### Introduction

For detailed information about the Cisco VGD 1T3 series voice gateways, see the documents at the following location:

[http://www.cisco.com/en/US/products/ps9890/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps9890/tsd_products_support_series_home.html)

### Supported Hardware

Cisco IOS Release 15.1M&T supports the Cisco VGD 1T3 series voice gateways.

For additional information about supported hardware for this platform and release, go to the Cisco Feature Navigator home page at the following URL:

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

Memory recommendations and feature support information for Cisco IOS Release 15.1M&T are also available through Cisco Feature Navigator.

