



# Release Notes for Cisco IAD2430 Series IADs

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These release notes describe new and changed features of Cisco IAD2430 series integrated access devices (IADs) and include the following sections:

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## New and Changed Information

### Supported WAN or Voice Interface Cards

The Cisco IAD2430 series IAD includes a slot for a WAN interface card (WIC) or voice interface card (VIC). The following WICs and VICs (also used by Cisco 2600 series and Cisco 3600 series routers) are supported in releases of the Cisco IAD2430 series:

- WIC-1T
- WIC-2T
- WIC-1DSU-T1
- VIC2-2FXS
- VIC2-4FXS
- VIC2-2FXO
- VIC2-4FXO
- VIC2-2BRI-NT/TE
- WIC-1ADSL
- WIC-1SHDSL-V2
- WIC-1ADSL-DG



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- VWIC-2MFT-T1
- VWIC-2MFT-E1



**Note**

Contact your Cisco account representative for the most recent supported cards.

For detailed information on installing and connecting interface cards, refer to the following:

“Installing WAN and Voice Interface Cards in Cisco Modular Routers,” in the *Cisco Interface Cards Installation Guide*, at the following URL:

[http://www.cisco.com/univercd/cc/td/doc/product/access/acs\\_mod/cis2600/hw\\_inst/wic\\_inst/wic\\_doc/index.htm](http://www.cisco.com/univercd/cc/td/doc/product/access/acs_mod/cis2600/hw_inst/wic_inst/wic_doc/index.htm)

## Software Compatibility

The following table lists the Cisco IAD2430 platforms, supported WICs and VICs and the software that runs on them:

**Table 1 Cisco IAD2430 Platforms, WICs and VICs Software Compatibility Matrix**

	IAD2430-24FXS	IAD2431-8FXS	IAD2431-16FXS	IAD2432-24FXS	IAD2431-1T1E1
No WICs (base chassis)	12.2(15)ZJ	12.2(15)ZJ	12.2(15)ZJ	12.2(15)ZJ	12.2(15)ZJ
WIC-2T	N/A	12.2(15)ZJ	12.2(15)ZJ	12.2(15)ZJ	12.2(15)ZJ
WIC-1DSU-T1	N/A	12.2(15)ZJ	12.2(15)ZJ	12.2(15)ZJ	12.2(15)ZJ
VIC2-4FXO	N/A	12.2(15)ZJ	12.2(15)ZJ	12.2(15)ZJ	12.2(15)ZJ
WIC-1T	N/A	12.3(4)XD	12.3(4)XD	12.3(4)XD	12.3(4)XD
VIC2-2FXO	N/A	12.3(4)XD	12.3(4)XD	12.3(4)XD	12.3(4)XD
VIC2-2FXS	N/A	12.3(4)XD	12.3(4)XD	12.3(4)XD	12.3(4)XD
VIC-4FXS/DID	N/A	12.3(4)XD	12.3(4)XD	12.3(4)XD	12.3(4)XD
VIC2-2BRI-NT/TE	N/A	12.3(4)XD	12.3(4)XD	12.3(4)XD	12.3(4)XD
WIC-1ADSL	N/A	12.3(4)XD	12.3(4)XD	12.3(4)XD	12.3(4)XD
WIC-1SHDSL	N/A	12.3(4)XD	12.3(4)XD	12.3(4)XD	12.3(4)XD
WIC-1ADSL-DG	N/A	12.3(4)XD	12.3(4)XD	12.3(4)XD	12.3(4)XD
WIC-1SHDSL-V2	N/A	12.3(4)XD	12.3(4)XD	12.3(4)XD	12.3(4)XD
VWIC-2MFT-T1	N/A	12.3(4)XD	12.3(4)XD	12.3(4)XD	12.3(4)XD
VWIC-2MFT-E1	N/A	12.3(4)XD	12.3(4)XD	12.3(4)XD	12.3(4)XD

## Port Numbering

Port numbering conventions for Cisco IAD2430 series IADs differs from the Cisco IAD2420 series:

- An external Compact Flash card is numbered CF 0.
- 10/100BASE-T Fast Ethernet ports are numbered Fast Ethernet 0/0 and Fast Ethernet 0/1 from right to left.
- T1/E1 ports are numbered T1 or E1 1/0 and T1 or E1 1/1 from right to left.
- The slot for WICs and VICs is numbered slot 0. WIC and VIC interfaces are numbered by interface face with this slot number and an interface number, beginning with 0 and running from right to left.
- FXS voice port numbering begins at 2/0 and extends to 2/7, 2/15, or 2/23, depending on the number of voice ports.

## ROM Monitor Commands

Cisco IAD2430 series IADs adds new ROM monitor commands for downloading a software image by TFTP for disaster recovery and for FPGA selection.

### The `tftpdnld` Command

The `tftpdnld` command downloads a Cisco IOS software image from a LAN server to Compact Flash using TFTP.

`tftpdnld [-r]`—Begins the TFTP copy procedure.

- `r`—Loads the Cisco IOS software image only to DRAM and launches the image without writing the image to Compact Flash.

The `tftpdnld` command requires you to specify certain variables in the following syntax:

```
VARIABLE_NAME=value
```

The following variables are required:

- `IP_ADDRESS`—IP address for the router you are using.
- `IP_SUBNET_MASK`—Subnet mask for the router you are using.
- `DEFAULT_GATEWAY`—Default gateway for the router you are using.
- `TFTP_SERVER`—IP address of the server from which you want to download the image file.
- `TFTP_FILE`—Name of the file that you want to download.

The following `tftpdnld` variables are optional:

- `TFTP_VERBOSE`—Print setting. The default is 1.
  - 0=quiet—After you enter the `tftpdnld` command, the prompt  
`Do you wish to continue? y/n:`  
is the only information that appears until the command completes successfully or fails.
  - 1=progress—Displays the state of the required `tftpdnld` command variables. Also displays progress characters to indicate successful and lost packet transmissions.
  - 2=verbose—Displays all progress print setting messages, along with error information. The information provided by this print setting may be useful when debugging interface link and configuration problems that may prevent connecting to the TFTP server.

- **TFTP\_RETRY\_COUNT**—Number of times from 1 to 65535 that the ROM monitor retries ARP and ACK. The default is 7 retries.
- **TFTP\_TIMEOUT**—Overall timeout of the download operation in seconds. The range is from 1 to 65535 seconds. The default is 7200 seconds.
- **TFTP\_CHECKSUM**—Performs a checksum test on the image: 0=checksum off, 1=checksum on. The default is 1.
- **FE\_SPEED\_MODE**—Sets the Fast Ethernet speed and duplex mode. 0=10 Mbps half-duplex mode, 1=10 Mbps full-duplex mode, 2=100 Mbps half-duplex mode, 3=100 Mbps full-duplex mode, 4=auto-negotiation. The default is 4.

After you specify the variables, you must reenter the **tftpdnld** command. For example:

```
rommon 1 > IP_ADDRESS=172.15.19.11
rommon 2 > IP_SUBNET_MASK=255.255.255.0
rommon 3 > DEFAULT_GATEWAY=172.16.19.1
rommon 4 > TFTP_SERVER=172.15.20.10
rommon 5 > TFTP_FILE=/tftpboot/c2600-i-mz
rommon 6 > tftpdnld
```

```
IP_ADDRESS=172.15.19.11
IP_SUBNET_MASK=255.255.255.0
DEFAULT_GATEWAY=172.16.19.1
TFTP_SERVER=172.15.20.10
TFTP_FILE=/tftpboot/2600-i-mz
```

Invoke this command for disaster recovery only.

WARNING: all existing data in all partitions on flash will be lost!

Do you wish to continue? y/n: [n]:

Enter **y** to begin downloading the Cisco IOS software image. When the process is complete, the ROM monitor mode prompt appears on your screen.

## Known Problems

There are currently no known hardware problems with the Cisco IAD2430 series IADs. To view software related problems, access the following URL:

[Products and Services > Voice Gateways > Cisco IAD2400 Series IADs > Technical Documentation > Cisco IAD2430 Series Integrated Access Devices > Software Center](#)

## Obtaining Documentation

Cisco provides several ways to obtain documentation, technical assistance, and other technical resources. These sections explain how to obtain technical information from Cisco Systems.

## Cisco.com

You can access the most current Cisco documentation on the World Wide Web at this URL:

<http://www.cisco.com/univercd/home/home.htm>

You can access the Cisco website at this URL:

<http://www.cisco.com>

International Cisco websites can be accessed from this URL:

[http://www.cisco.com/public/countries\\_languages.shtml](http://www.cisco.com/public/countries_languages.shtml)

## Documentation CD-ROM

Cisco documentation and additional literature are available in a Cisco Documentation CD-ROM package, which may have shipped with your product. The Documentation CD-ROM is updated regularly and may be more current than printed documentation. The CD-ROM package is available as a single unit or through an annual or quarterly subscription.

Registered Cisco.com users can order a single Documentation CD-ROM (product number DOC-CONDOCCD=) through the Cisco Ordering tool:

[http://www.cisco.com/en/US/partner/ordering/ordering\\_place\\_order\\_ordering\\_tool\\_launch.html](http://www.cisco.com/en/US/partner/ordering/ordering_place_order_ordering_tool_launch.html)

All users can order annual or quarterly subscriptions through the online Subscription Store:

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

Click Subscriptions & Promotional Materials in the left navigation bar.

## Ordering Documentation

You can find instructions for ordering documentation at this URL:

[http://www.cisco.com/univercd/cc/td/doc/es\\_inpck/pdi.htm](http://www.cisco.com/univercd/cc/td/doc/es_inpck/pdi.htm)

You can order Cisco documentation in these ways:

- Registered Cisco.com users (Cisco direct customers) can order Cisco product documentation from the Networking Products MarketPlace:  
<http://www.cisco.com/en/US/partner/ordering/index.shtml>
- Nonregistered Cisco.com users can order documentation through a local account representative by calling Cisco Systems Corporate Headquarters (California, USA) at 408 526-7208 or, elsewhere in North America, by calling 800 553-NETS (6387).

## Documentation Feedback

You can submit e-mail comments about technical documentation to [bug-doc@cisco.com](mailto:bug-doc@cisco.com).

You can submit comments by using the response card (if present) behind the front cover of your document or by writing to the following address:

Cisco Systems  
Attn: Customer Document Ordering  
170 West Tasman Drive  
San Jose, CA 95134-9883

We appreciate your comments.

## Obtaining Technical Assistance

For all customers, partners, resellers, and distributors who hold valid Cisco service contracts, the Cisco Technical Assistance Center (TAC) provides 24-hour-a-day, award-winning technical support services, online and over the phone. Cisco.com features the Cisco TAC website as an online starting point for technical assistance. If you do not hold a valid Cisco service contract, please contact your reseller.

### Cisco TAC Website

The Cisco TAC website (<http://www.cisco.com/tac>) provides online documents and tools for troubleshooting and resolving technical issues with Cisco products and technologies. The Cisco TAC website is available 24 hours a day, 365 days a year.

Accessing all the tools on the Cisco TAC website requires a Cisco.com user ID and password. If you have a valid service contract but do not have a login ID or password, register at this URL:

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

### Opening a TAC Case

Using the online TAC Case Open Tool (<http://www.cisco.com/tac/caseopen>) is the fastest way to open P3 and P4 cases. (P3 and P4 cases are those in which your network is minimally impaired or for which you require product information.) After you describe your situation, the TAC Case Open Tool automatically recommends resources for an immediate solution. If your issue is not resolved using the recommended resources, your case will be assigned to a Cisco TAC engineer.

For P1 or P2 cases (P1 and P2 cases are those in which your production network is down or severely degraded) or if you do not have Internet access, contact Cisco TAC by telephone. Cisco TAC engineers are assigned immediately to P1 and P2 cases to help keep your business operations running smoothly.

To open a case by telephone, use one of the following numbers:

Asia-Pacific: +61 2 8446 7411 (Australia: 1 800 805 227)

EMEA: +32 2 704 55 55

USA: 1 800 553-2447

For a complete listing of Cisco TAC contacts, go to this URL:

<http://www.cisco.com/warp/public/687/Directory/DirTAC.shtml>

## TAC Case Priority Definitions

To ensure that all cases are reported in a standard format, Cisco has established case priority definitions.

Priority 1 (P1)—Your network is “down” or there is a critical impact to your business operations. You and Cisco will commit all necessary resources around the clock to resolve the situation.

Priority 2 (P2)—Operation of an existing network is severely degraded, or significant aspects of your business operation are negatively affected by inadequate performance of Cisco products. You and Cisco will commit full-time resources during normal business hours to resolve the situation.

Priority 3 (P3)—Operational performance of your network is impaired, but most business operations remain functional. You and Cisco will commit resources during normal business hours to restore service to satisfactory levels.

Priority 4 (P4)—You require information or assistance with Cisco product capabilities, installation, or configuration. There is little or no effect on your business operations.

## Obtaining Additional Information

Information about Cisco products, services, technologies, and networking solutions is available from various online sources.

- Sign up for Cisco e-mail newsletters and other communications at the Cisco Subscription Center at: <http://www.cisco.com/offer/subscribe>
- Learn about modifications to or updates about Cisco products. Go to the Product Alert Tool to create a profile, and then choose those products for which you want to receive information. Go to: <http://tools.cisco.com/Support/PAT/do/ViewMyProfiles.do?local=en>
- Order the Cisco Product Quick Reference Guide, a reference tool that includes product overviews, key features, sample part numbers, and abbreviated technical specifications for many Cisco products that are sold through partners. Go to: <http://www.cisco.com/go/guide>
- Visit the Cisco Services website to learn the latest technical, advanced, and remote services available to increase the operational reliability of your network. Go to: <http://www.cisco.com/go/services>
- Visit Cisco Marketplace, the company store, for a variety of books, reference guides, documentation, and logo merchandise at: <http://www.cisco.com/go/marketplace/>
- Purchase a copy of Cisco technical documentation on a DVD, (Cisco Product Documentation DVD) from the product documentation store at: <http://www.cisco.com/go/marketplace/docstore>
- Obtain general networking, training, and certification titles from Cisco Press publishers at: <http://www.ciscopress.com>
- Read the Internet Protocol Journal, a quarterly journal published by Cisco for engineering professionals who design, develop, and operate internets and intranets. Go to: <http://www.cisco.com/ipj>

- *What's New in Cisco Product Documentation* is an online publication that provides information about the latest documentation releases for Cisco products. Updated monthly, this online publication is organized by product category:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

- Access international Cisco websites at:

[http://www.cisco.com/public/countries\\_languages.shtml](http://www.cisco.com/public/countries_languages.shtml)

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