



# Release Notes for Cisco IOS Release 15.2(7)E7

**First Published: September 29, 2022**  
**Last Updated: December 7, 2022**

Cisco IOS Release 15.2(7)E7 runs on these platforms:

- Cisco 2500 Series Connected Grid Switches (CGS2520)
- Cisco Connected Grid Ethernet Switch Module (CGR2010 ESM)
- Cisco Embedded Service 2020 Series Switches (ESS2020)
- Cisco Industrial Ethernet 2000 Series Switches (IE2000)
- Cisco Industrial Ethernet 2000U Series Switches (IE2000U)
- Cisco Industrial Ethernet 3000 Series Switches (IE3000)
- Cisco Industrial Ethernet 3010 Series Switches (IE3010)
- Cisco Industrial Ethernet 4000 Series Switches (IE4000)
- Cisco Industrial Ethernet 4010 Series Switches (IE4010)
- Cisco Industrial Ethernet 5000 Series Switches (IE5000)

These release notes include important information about Cisco IOS Release 15.2(7)E7 and any limitations, restrictions, and caveats that apply to the release. Verify that these release notes are correct for your switch:

- If you are installing a new switch, see the Cisco IOS release label on the rear panel of your switch.
- If your switch is on, use the **show version** command. See [Finding the Software Version and Feature Set, page 4](#).
- If you are upgrading to a new release, see the software upgrade filename for the software version. See [Deciding Which Files to Use, page 4](#).

For a complete list of documentation for the platforms associated with this release, see [Related Documentation, page 10](#).

You can download the switch software from this site (registered Cisco.com users with a login password):

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

## Organization

This document includes the following sections:

<a href="#">Conventions, page 2</a>	Conventions used in this document.
<a href="#">New Features in Cisco IOS Release 15.2(7)E7, page 3</a>	There are no new features in this release.
<a href="#">Device Manager Localization, page 3</a>	Summarizes the language translations supported by the Device Manager online help (OLH).
<a href="#">Express Setup Requirements, page 3</a>	Summarizes the hardware and software requirements for the Windows platform.
<a href="#">Upgrading the Switch Software, page 4</a>	Procedures for downloading software.
<a href="#">Caveats, page 10</a>	Summarizes Open, Resolved and Closed caveats in Release 15.2(7)E7.
<a href="#">Related Documentation, page 10</a>	Links to the documentation for the hardware platforms associated with this release.

## Conventions

This document uses the following conventions.

Conventions	Indication
<b>bold font</b>	Commands and keywords and user-entered text appear in <b>bold font</b> .
<i>italic font</i>	Document titles, new or emphasized terms, and arguments for which you supply values are in <i>italic font</i> .
[ ]	Elements in square brackets are optional.
{x   y   z }	Required alternative keywords are grouped in braces and separated by vertical bars.
[ x   y   z ]	Optional alternative keywords are grouped in brackets and separated by vertical bars.
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.
courier font	Terminal sessions and information the system displays appear in <code>courier font</code> .
< >	Nonprinting characters such as passwords are in angle brackets.
[ ]	Default responses to system prompts are in square brackets.
!, #	An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line.

**Note:** Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the manual.

**Caution:** Means *reader be careful*. In this situation, you might perform an action that could result in equipment damage or loss of data.

**Warning: IMPORTANT SAFETY INSTRUCTIONS**

Means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings

**that accompanied this device.**

**SAVE THESE INSTRUCTIONS**

**Regulatory:** Provided for additional information and to comply with regulatory and customer requirements.

## New Features in Cisco IOS Release 15.2(7)E7

This release provides continued support for the features in the 15.2(7)E3 release. The following new feature is supported in Cisco IOS Release 15.2(7)E7.

### Data Wipe

The Cisco IE2000, IE4000, IE5000, IE4010, and Cisco Connected Grid Router WAN Interface Card (GRWIC) switches utilize persistent storage to maintain system software images, switch configuration, software logs, and operational history. Each of these areas can contain customer specific information, including details about network architecture and design, as well as potential target vectors for would-be attackers. Customers desire a comprehensive method to securely erase or wipe this identifiable information when removing products due to RMA, upgrade/replacement, or system end-of-life.

The goal is to provide a customer friendly method to ensure data is sufficiently erased to mitigate, limit, and hinder data recovery attempts. The Data Wipe feature provides a solution that evaluates the storage devices present on the system, determines the best option for data wipe based on those device types, and performs the necessary actions with little or no user involvement.

### Device Manager Localization

Online help for the Device Manager is available in the following languages for the IE 2000, IE 2000U, IE 3000, IE 4000, IE 4010 and IE 5000 switches:

- Chinese (Traditional) (code: 2052)
- Chinese (Simplified) (code: 1028)
- (Default): English (code: 1033)
- French (code: 1036)
- German (code: 1031)
- Japanese (code: 1041)
- Spanish (LATAM) (code: 9226)

### Express Setup Requirements

This section summarizes the hardware and software requirements for the Windows platform.

For a listing of Express Setup documentation, see [Table 2 Methods for Assigning IP Information, page 8](#).

**Hardware**

- 1 gigahertz (GHz) or faster 32-bit (x86) or 64-bit (x64) processor
- 1 gigabyte (GB) RAM (32-bit) or 2 GB RAM (64-bit)
- 16 GB available hard disk space (32-bit) or 20 GB (64-bit)

## Upgrading the Switch Software

### Software

- PC with Windows 7, Windows 10, or Mac OS 10.6.x
- Web browser (Internet Explorer 10.0 or 11.0, or Firefox 48.x and above) with JavaScript enabled
- Straight-through or crossover Category 5 or 6 cable

Express Setup verifies the browser version when starting a session, and it does not require a plug-in.

## Upgrading the Switch Software

These are the procedures for downloading software. Before downloading software, read these sections for important information:

- [Finding the Software Version and Feature Set, page 4](#)
- [Deciding Which Files to Use, page 4](#)
- [Archiving Software Images, page 5](#)
- [Upgrading a Switch by Using the CLI, page 5](#)
- [Upgrading IOS and FPGA on the Ethernet Switch Module \(ESM\), page 6](#)
- [Installation Notes, page 8](#)

## Finding the Software Version and Feature Set

The Cisco IOS image is stored as a bin file in a directory that is named with the Cisco IOS release. A subdirectory contains the files needed for web management. The image is stored on the compact flash memory card.

You can use the **show version** privileged EXEC command to see the software version that is running on your switch. The second line of the display shows the version.

You can also use the **dir filesystem:** privileged EXEC command to see the directory names of other software images stored in flash memory. For example, use the **dir flash:** command to display the images in the flash memory.

## Deciding Which Files to Use

The upgrade procedures in these release notes describe how to perform the upgrade by using a combined tar file. This file contains the Cisco IOS image file and the files needed for the embedded device manager. You must use the combined tar file to upgrade the switch through Express Setup. To upgrade the switch through the command-line interface (CLI), use the tar file and the **archive download-sw** privileged EXEC command.

[Table 1](#) lists the filenames for this software release.

**Note:** If you download the IP services image and plan to use Layer 3 functionality, you must use the Switch Database Management (SDM) routing template. To determine the currently active template, enter the **show sdm prefer** privileged EXEC command. If necessary, enter the **sdm prefer** global configuration command to change the SDM template to a specific template. For example, if the switch uses Layer 3 routing, change the SDM template from the default to the routing template. You must reload the switch for the new template to take effect.

**Note:** Beginning with Cisco IOS Release 15.2(5)E, we **no longer release** the IE 3000 IP services image. The latest release for the IP services image on the IE 3000 is 15.2(4)EA1.

**Table 1 Cisco IOS Software Image Files**

File Name	Description
cgs2520-ipserviceslmk9-tar.152-7.E7.tar	CGS 2520 IP services image file
cgs2520-lanbaselmk9-tar.152-7.E7.tar	CGS 2520 LAN base image file
c2020-universalk9-tar.152-7.E7.tar	ESS 2020 universal image file
ie2000-universalk9-tar.152-7.E7.tar	IE 2000 universal image file
ie2000u-ipserviceslmk9-tar.152-7.E7.tar	IE 2000U IP services image file
ie2000u-lanbaselmk9-tar.152-7.E7.tar	IE 2000U LAN base image file
ie3010-ipservicesk9-tar.152-7.E7.tar	IE 3010 IP services image file
ie3010-lanbasek9-tar.152-7.E7.tar	IE 3010 LAN base image file
ies-lanbasek9-tar.152-7.E7.tar	IE 3000 LAN base image file
grwicdes-ipserviceslmk9-tar.152-7.E7.tar	ESM IP services image file
grwicdes-lanbaselmk9-tar.152-7.E7.tar	ESM LAN base image file
ie4000-universalk9-tar.152-7.E7.tar	IE 4000 Universal image file
ie4010-universalk9-tar.152-7.E7.tar	IE 4010 Universal image file
ie5000-universalk9-tar.152-7.E7.tar	IE 5000 Universal image file

## Archiving Software Images

Before upgrading your switch software, make sure that you archive copies of both your current Cisco IOS release and the Cisco IOS release to which you are upgrading. Keep these archived images until you have upgraded all devices in the network to the new Cisco IOS image and verified that the new Cisco IOS image works properly in your network.

Cisco routinely removes old Cisco IOS versions from Cisco.com. See *Product Bulletin 2863* for information: [http://www.cisco.com/en/US/prod/collateral/iosswrel/ps8802/ps6969/ps1835/prod\\_bulletin0900aecd80281c0e.html](http://www.cisco.com/en/US/prod/collateral/iosswrel/ps8802/ps6969/ps1835/prod_bulletin0900aecd80281c0e.html)

You can copy the bin software image file on the flash memory to the appropriate TFTP directory on a host by using the **copy flash: tftp:** privileged EXEC command.

**Note:** Although you can copy any file on the flash memory to the TFTP server, it is time consuming to copy all of the HTML files in the tar file. We recommend that you download the tar file from Cisco.com and archive it on an internal host in your network.

You can also configure the switch as a TFTP server to copy files from one switch to another without using an external TFTP server by using the **tftp-server** global configuration command.

## Upgrading a Switch by Using the CLI

This procedure is for copying the combined tar file to the switch. You copy the file to the switch from a TFTP server and extract the files. You can download an image file and replace or keep the current image.

**Note:** Make sure that the compact flash card is in the switch before downloading the software.

To download software, follow these steps:

1. Use [Table 1 on page 5](#) to identify the file that you want to download.
2. Download the software image file. If you have a SMARTnet support contract, go to this URL, and log in to download the appropriate files:

## Upgrading the Switch Software

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

For example, to download the image for an IE 2000 switch, select Products > Switches > Industrial Ethernet Switches > Cisco Industrial Ethernet 2000 Series Switches, then select your switch model. Select IOS Software for Software Type, then select the image you want to download.

3. Copy the image to the appropriate TFTP directory on the workstation, and make sure that the TFTP server is properly configured.

For more information, see the “Assigning the Switch IP Address and Default Gateway” chapter in the applicable document for your switch as listed in [Table 2](#).

4. Log into the switch through the console port or a Telnet session.
5. (Optional) Ensure that you have IP connectivity to the TFTP server by entering this privileged EXEC command:

```
Switch# ping tftp-server-address
```

For more information about assigning an IP address and default gateway to the switch, see [Table 2](#).

6. Download the image file from the TFTP server to the switch.

If you are installing the same version of software that currently exists on the switch, overwrite the current image by entering this privileged EXEC command:

```
Switch# archive download-sw /overwrite /reload tftp://location /directory /image-name.tar
```

The command above untars/unzips the file. The system prompts you when it completes successfully.

- The **/overwrite** option overwrites the software image in flash memory with the downloaded one.

If you specify the command without the **/overwrite** option, the download algorithm verifies that the new image is not the same as the one on the switch Flash device. If the images are the same, the download does not occur. If the images are different, the old image is deleted, and the new one is downloaded. If there is not enough space to install the new image and keep the current running image, the download process stops, and an error message displays.

- The **/reload** option reloads the system after downloading the image unless the configuration has been changed and not saved.
- For **// location**, specify the IP address of the TFTP server. or hostname.
- For **/directory/image-name.tar**, specify the directory and the image to download. Directory and image names are case sensitive. The directory is for file organization and it is generally a *tftpboot/user-ID* path.

This example shows how to download an image from a TFTP server at 198.30.20.19 and to overwrite the image on the switch:

```
Switch# archive download-sw /overwrite tftp://198.30.20.19/image-name.tar
```

You can also download the image file from the TFTP server to the switch and keep the current image by replacing the **/overwrite** option with the **/leave-old-sw** option. If there is not enough space to install the new image and keep the current running image, the download process stops, and an error message displays.

## Upgrading IOS and FPGA on the Ethernet Switch Module (ESM)

This procedure is for copying the combined tar file to the switch. You copy the file to the switch from a TFTP server and extract the files. You can download an image file and replace or keep the current image.

To download software, follow these steps:

1. Refer to [Deciding Which Files to Use, page 4](#) to identify the file that you want to download.

## Upgrading the Switch Software

2. Download the software image file. If you have a SMARTnet support contract, go to the URL below and log in to download the appropriate files.

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

For example, to download the image for a Connected Grid 10-Port Ethernet Switch Module Interface Card, select Products > Cisco Interfaces and Modules > Connected Grid Modules > Connected Grid 10-Port Ethernet Switch Module Interface Card. Select IOS Software for Software Type, then select the image you want to download.

Copy the image to the appropriate TFTP directory on the workstation, and make sure that the TFTP server is properly configured. For more information, see the “Assigning the Switch IP Address and Default Gateway” chapter in the applicable document listed in [Table 2 Methods for Assigning IP Information, page 8](#).

3. Copy the image to the appropriate TFTP directory on the workstation, and make sure that the TFTP server is properly configured.
4. Log in to the switch through the console port or a Telnet session.
5. (Optional) Ensure that you IP connectivity to the TFTP server by entering this privileged EXEC command:

```
Switch# ping tftp-server-address
```

6. Download the image file from the TFTP server to the switch.

If you are installing the same version of software that currently exists on the switch, overwrite the current image by entering this privileged EXEC command:

```
Switch# archive download-sw /overwrite tftp: //location /directory /image-name.tar
```

The command above untars/unzips the file. The system prompts you when it completes successfully.

- The **/overwrite** option overwrites the software image in flash memory with the downloaded one.

If you specify the command without the **/overwrite** option, the download algorithm verifies that the new image is not the same as the one on the switch Flash device. If the images are the same, the download does not occur. If the images are different, the old image is deleted, and the new one is downloaded. If there is not enough space to install the new image and keep the current running image, the download process stops, and an error message displays.

- The **/reload** option reloads the system after downloading the image unless the configuration has been changed and not saved.
- For **// location**, specify the IP address of the TFTP server. or hostname.
- For **/directory/image-name.tar**, specify the directory and the image to download. Directory and image names are case sensitive. The directory is for file organization and it is generally a *tftpboot/user-ID* path.

This example shows how to download an image from a TFTP server at 198.30.20.19 and to overwrite the image on the switch:

```
Switch# archive download-sw /overwrite tftp://198.30.20.19/image-name.tar
```

You can also download the image file from the TFTP server to the switch and keep the current image by replacing the **/overwrite** option with the **/leave-old-sw** option. If there is not enough space to install the new image and keep the current running image, the download process stops, and an error message displays.

7. After the download and the untar are complete, power cycle the CGR2010.

## Installation Notes

You can assign IP information to your switch using the methods shown in [Table 2](#)

**Table 2 Methods for Assigning IP Information**

Method	Platform	Document
Express setup program	IE2000	<a href="#">Cisco IE 2000 Switch Hardware Installation Guide</a>
	IE3000	<a href="#">Cisco IE 3000 Switch Getting Started Guide, Device Manager Online Help</a>
	ESM	<a href="#">Connected Grid Ethernet Switch Module Interface Card Getting Started Guide</a>
	IE4000	<a href="#">Cisco IE 4000 Switch Hardware Installation Guide</a>
	IE4010	<a href="#">Cisco IE 4010 Switch Hardware Installation Guide</a>
	IE5000	<a href="#">Cisco IE 5000 Hardened Aggregator Hardware Installation Guide</a>
CLI-based setup program	ESS2020	<a href="#">Cisco Embedded Service 2020 Series Software Configuration Guide</a>
	IE2000	<a href="#">Cisco IE 2000 Switch Hardware Installation Guide</a>
	IE2000U	<a href="#">Cisco IE 2000U Switch Hardware Installation Guide</a>
	IE3000	<a href="#">Cisco IE 3000 Series Switch Hardware Installation Guide</a>
	IE3010	<a href="#">Cisco IE 3010 Switch Hardware Installation Guide</a>
	CGS2520	<a href="#">Cisco CGS 2520 Hardware Installation Guide</a>
	ESM	<a href="#">Cisco CGS 2520 Hardware Installation Guide</a>  <b>Note:</b> The <i>Cisco CGS 2520 Hardware Installation Guide</i> serves as CLI-based Setup reference for the ESM.
	IE4000	<a href="#">Cisco IE 4000 Switch Hardware Installation Guide</a>
	IE4010	<a href="#">Cisco Industrial Ethernet 4000, 4010 and 5000 Switch Software Configuration Guide</a>
	IE5000	<a href="#">Cisco IE 5000 Hardened Aggregator Hardware Installation Guide</a>



**Table 2 Methods for Assigning IP Information (continued)**

Method	Platform	Document
DHCP-based autoconfiguration	ESS2020	<a href="#">Cisco Embedded Service 2020 Series Software Configuration Guide</a>
	IE2000	<a href="#">Cisco IE 2000 Series Switch Software Configuration Guide</a>
	IE2000U	<a href="#">System Management Software Configuration Guide for Cisco IE 2000U and Connected Grid Switches</a>
	IE3000	<a href="#">Cisco IE 3000 Series Switch Software Configuration Guide</a>
	IE3010	<a href="#">Cisco IE 3010 Series Switch Software Configuration Guide</a>
	CGS2520	<a href="#">CGS 2520 Switch Software Configuration Guide</a>
	ESM	<a href="#">Cisco Connected Grid Ethernet Switch Module Interface Card Software Configuration Guide</a>
	IE4000	<a href="#">Cisco Industrial Ethernet 4000 Series Switch Software Configuration Guide</a>
	IE4010	<a href="#">Cisco Industrial Ethernet 4000, 4010 and 5000 Switch Software Configuration Guide</a>
	IE5000	<a href="#">Cisco IE 5000 Hardened Aggregator Hardware Installation Guide</a>
Manually assigning an IP address	IE2000	<a href="#">Cisco IE 2000 Series Switch Software Configuration Guide</a>
	IE2000U	<a href="#">System Management Software Configuration Guide for Cisco IE 2000U and Connected Grid Switches</a>
	IE3000	<a href="#">Cisco IE 3000 Series Switch Software Configuration Guide</a>
	IE3010	<a href="#">Cisco IE 3010 Series Switch Software Configuration Guide</a>
	CGS2520	<a href="#">CGS 2520 Switch Software Configuration Guide</a>
	ESM	<a href="#">Cisco Connected Grid Ethernet Switch Module Interface Card Software Configuration Guide</a>
	IE4000	<a href="#">Cisco Industrial Ethernet 4000 Series Switch Software Configuration Guide</a>
	IE4010	<a href="#">Cisco Industrial Ethernet 4000, 4010 and 5000 Switch Software Configuration Guide</a>
	IE5000	<a href="#">Cisco IE 5000 Hardened Aggregator Hardware Installation Guide</a>

## Documentation Updates

On all IoT switches: As part of tightening security, **enable secret 0**, will automatically be converted to authentication type '9' in Cisco IOS release 15.2(7)E5 and later. When 'Type 9' encryption is enabled on low-end platforms (CGS2520, IE 2000, IE 2000U, and IE3000), Device Manager users will experience an approximate delay of two minutes before the Device Manager pages open.

To workaround this issue, Device Manager users on low-end platforms are advised to configure authentication type '5' using the CLI command: **enable algorithm-type md5 secret** <password>.

## Related Documentation

Device or Feature	Related Documents
Cisco 2500 Series Connected Grid Switches	<a href="http://www.cisco.com/go/cgs2520">http://www.cisco.com/go/cgs2520</a>
Cisco Embedded Service 2020 Series Switches (ESS 2020)	<a href="http://www.cisco.com/c/en/us/support/switches/embedded-service-2020-series-switches/tsd-products-support-series-home.html">http://www.cisco.com/c/en/us/support/switches/embedded-service-2020-series-switches/tsd-products-support-series-home.html</a>
Cisco Ethernet Switch Module (ESM) for CGR 2010	<a href="http://www.cisco.com/go/cgr2000">http://www.cisco.com/go/cgr2000</a>
Cisco Industrial Ethernet 2000 Series Switches	<a href="http://www.cisco.com/go/ie2000">http://www.cisco.com/go/ie2000</a>
Cisco Industrial Ethernet 2000U Series Switches	<a href="http://www.cisco.com/go/ie2000u">http://www.cisco.com/go/ie2000u</a>
Cisco Industrial Ethernet 3000 Series Switches	<a href="http://www.cisco.com/go/ie3000">http://www.cisco.com/go/ie3000</a>
Cisco Industrial Ethernet 3010 Series Switches	<a href="http://www.cisco.com/go/ie3010">http://www.cisco.com/go/ie3010</a>
Cisco Industrial Ethernet 4000 Series Switches	<a href="http://www.cisco.com/go/ie4000">http://www.cisco.com/go/ie4000</a>
Cisco Industrial Ethernet 4010 Series Switches	<a href="http://www.cisco.com/go/ie4010">http://www.cisco.com/go/ie4010</a>
Cisco Industrial Ethernet 5000 Series Switches	<a href="http://www.cisco.com/go/ie5000">http://www.cisco.com/go/ie5000</a>

## Caveats

- [Cisco Bug Search Tool, page 10](#)
- [Open Caveats, page 11](#)
- [Resolved Caveats, page 11](#)

## Cisco Bug Search Tool

The Bug Search Tool (BST), which is the online successor to Bug Toolkit, is designed to improve the effectiveness in network risk management and device troubleshooting. The BST allows partners and customers to search for software bugs based on product, release, and keyword, and aggregates key data such as bug details, product, and version. The tool has a provision to filter bugs based on credentials to provide external and internal bug views for the search input.

To view the details of a caveat listed in this document:

1. Access the BST (use your Cisco user ID and password) at <https://tools.cisco.com/bugsearch/>.
2. Enter the bug ID in the Search For: field

## Open Caveats

## Open Caveats

**Table 3 Open Caveats in Cisco IOS Release 15.2(7)E7**

Bug ID	Headline
<a href="#">CSCvu66982</a>	Delay in loading WebUI on Low-end Devices when type 9 encryption is enabled (IE2000, IE3000).
<a href="#">CSCwc93938</a>	Crash is seen on IE2000U,IE3010,IE3000,CGS2520 devices while executing factory-reset all secure cli

## Resolved Caveats

**Table 4 Resolved Caveats in Cisco IOS Release 15.2(7)E7**

Bug ID	Headline
<a href="#">CSCvz64827</a>	Self survey stuck at 1% on IE5000 while configuring GNSS.
<a href="#">CSCwb89815</a>	IE5000: Unable to monitor switch stack members using SNMP ciscoStackWiseMIB

## Documentation Updates

On all IoT switches: As part of tightening security, **enable secret 0**, will automatically be converted to authentication type '9' in Cisco IOS release 15.2(7)E5 and later. When 'Type 9' encryption is enabled on low-end platforms (CGS2520, IE 2000, IE 2000U, and IE3000), Device Manager users will experience an approximate delay of two minutes before the Device Manager pages open.

To workaround this issue, Device Manager users on low-end platforms are advised to configure authentication type '5' using the CLI command: **enable algorithm-type md5 secret <password>**.

## Related Documentation

Device or Feature	Related Documents
Cisco 2500 Series Connected Grid Switches	<a href="http://www.cisco.com/go/cgs2520">http://www.cisco.com/go/cgs2520</a>
Cisco Embedded Service 2020 Series Switches (ESS 2020)	<a href="http://www.cisco.com/c/en/us/support/switches/embedded-service-2020-series-switches/tsd-products-support-series-home.html">http://www.cisco.com/c/en/us/support/switches/embedded-service-2020-series-switches/tsd-products-support-series-home.html</a>
Cisco Ethernet Switch Module (ESM) for CGR 2010	<a href="http://www.cisco.com/go/cgr2000">http://www.cisco.com/go/cgr2000</a>
Cisco Industrial Ethernet 2000 Series Switches	<a href="http://www.cisco.com/go/ie2000">http://www.cisco.com/go/ie2000</a>
Cisco Industrial Ethernet 2000U Series Switches	<a href="http://www.cisco.com/go/ie2000u">http://www.cisco.com/go/ie2000u</a>
Cisco Industrial Ethernet 3000 Series Switches	<a href="http://www.cisco.com/go/ie3000">http://www.cisco.com/go/ie3000</a>
Cisco Industrial Ethernet 3010 Series Switches	<a href="http://www.cisco.com/go/ie3010">http://www.cisco.com/go/ie3010</a>
Cisco Industrial Ethernet 4000 Series Switches	<a href="http://www.cisco.com/go/ie4000">http://www.cisco.com/go/ie4000</a>
Cisco Industrial Ethernet 4010 Series Switches	<a href="http://www.cisco.com/go/ie4010">http://www.cisco.com/go/ie4010</a>
Cisco Industrial Ethernet 5000 Series Switches	<a href="http://www.cisco.com/go/ie5000">http://www.cisco.com/go/ie5000</a>

No combinations are authorized or intended under this document.

Copyright 2022 Cisco Systems, Inc. All rights reserved.

Related Documentation