Release Notes for Cisco Catalyst IE3x00 and IE3100 Rugged, IE3400 Heavy Duty, and ESS3300 Series Switches, Cisco IOS XE 17.15.x

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Introduction

This document provides release information for the following Catalyst IE and Cisco ESS switches:

- Cisco Catalyst Rugged Series Switches (IE3100, IE3105, IE3200, and IE3300)
- Cisco Catalyst IE3400 Rugged Series (IE3400)
- Cisco Catalyst IE3400 Heavy-Duty Series (IE3400H)
- Cisco Embedded Services 3300 Series (ESS3300)

Cisco Catalyst IE3x00 Rugged Series Switches feature advanced, full Gigabit Ethernet speed for rich real-time data—and a modular, optimized design. These Cisco rugged switches bring simplicity, flexibility and security to the network edge, and are optimized for size, power, and performance.

From their end-to-end security architecture to delivering centralized automation and scale with Cisco intent-based networking, the Cisco Catalyst IE3x00 family is the perfect solution to your switching needs in almost any use case.

Cisco Embedded Services 3300 Series Switches (ESS3300) revolutionize Cisco's embedded networking portfolio with 1G/10G capabilities. ESS3300 switches are optimized to meet specialized form-factor, ruggedization, port density, and power needs of many applications requiring customization. They complement Cisco's off-the-shelf Industrial Ethernet switching portfolio.

On ESS3300, the small form factor, board configuration options, and optimized power consumption provide Cisco partners and integrators the flexibility to design custom solutions for defense, oil and gas, transportation, mining, and other verticals. The ESS3300 runs the trusted and feature-rich Cisco IOS XE Software, allowing Cisco partners and integrators to offer their customers the familiar Cisco IOS CLI and management experience on their ESS3300 solutions.

New Features for Cisco IOS XE 17.15.x

There are no new features in the Cisco IOS XE 17.15.6 release. It is a maintenance only release.

There are no new features in the Cisco IOS XE 17.15.5 release. It is a maintenance only release.

There are no new features in the Cisco IOS XE 17.15.4 release. It is a maintenance only release.

There are no new features in the Cisco IOS XE 17.15.3 release. It is a maintenance only release.

There are no new features in the Cisco IOS XE 17.15.2 release. It is a maintenance only release.

The following features in 17.15.x apply to both the IE3x00 and ESS3300 switches unless mentioned.

Feature Name	License Level	Description	Supported Platforms	Related Document
Software Support for IE3100 PoE	Network Essentials	From Cisco IOS XE 17.15.1, Power over Ethernet (PoE) is supported on the following models of the Cisco Catalyst IE3100 Rugged Series Switches: • The IE-3100-4P2S-E has a PoE budget of 120 W and supplies up to 30 W PoE+ output on its 4 downlink ports. • The IE-3100-8P2C-E has a PoE budget of 240 W and supplies up to 30 W PoE+ output on its 8 downlink ports.	IE-3100-4P2S-E, IE-3100-8P2C-E	Power over Ethernet Configuration Guide, Cisco Catalyst IE3100 Rugged Series Switches

Behavior Changes

CSDL Issue

From 17.15.1 release, application signature verification is performed by default for all applications during installation. Only Cisco-signed applications can be installed after verification. Unsigned applications will not be allowed to install.

Note If unsigned applications were installed on your system before upgrading to version 17.15.1, they will continue to function after the upgrade. However, if you uninstall an unsigned application and try to reinstall it, the signature verification will fail.

To install unsigned applications, disable signature verification manually by using the **app-hosting verification disable** command, as shown in the example here:

```
Device# app-hosting verification disable
```

Use the **show app-hosting infra command** to verify Application signature verification, as shown in the example here:

```
Device# show app-hosting infra
IOX version: 2.11.0.2
```

```
App signature verification: disabled
CAF Health: Stable
```

Note Unsigned applications are third-party applications built by customers or users.

Important Notes

SSH Algorithms for Common Criteria Certification Limitation

Starting from Cisco IOS XE Release 17.10, the following Key Exchange and MAC algorithms are removed from the default list:

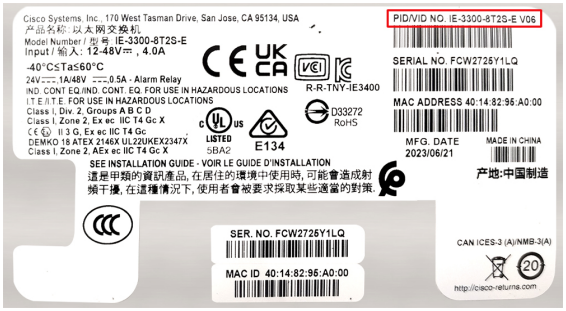
- Key Exchange algorithm:
  - diffie-hellman-group14-sha1
- MAC algorithms:
  - hmac-sha1
  - hmac-sha2-256
  - hmac-sha2-512

Note You can use the **ip ssh server algorithm kex** command to configure the Key Exchange algorithm and the **ip ssh server algorithm mac** command to configure the MAC algorithms.

IOx Support for IE3300 Switches

To see if the IE-3300-8P2S switch or IE-3300-8T2S switch supports IOx application environment, check the Hardware Version ID on the switch label. The Hardware Version ID is in the upper-right corner of the label, as shown in the following illustration. Support for the feature is available only with Hardware Version ID 06 or later. In the following illustration, the Version ID appears as "V06" at the end of the string inside the red rectangle in the upper-right corner of the label.

Figure 1: IE3300 Switch Label



You can also see the Version ID by entering the **show version** command and examining the output, as shown in the following example:

```
IE-3300#show version
Base Ethernet MAC Address          : b0:c5:3c:99:c8:a0
Motherboard Assembly Number        : 73-101289-11
Motherboard Serial Number          : FOC27151WEZ
Model Revision Number              : V06
Motherboard Revision Number        : B
Model Number                       : IE-3300-8T2S
System Serial Number               : FCW2507P4CV
Top Assembly Part Number           : 68-102662-01
Top Assembly Revision Number       : B0
System FPGA version                : 0.89.2
CIP Serial Number                  : 0x1999C8A0
SKU Brand Name                     : Cisco
```

SMU Installation: Boot in Install Mode

Software Maintenance Upgrade (SMU) installation is no longer supported in bundle mode. Previously, SMU installation was supported in both bundle and install modes. Beginning in Cisco IOS XE 17.9.1, SMU supports patching using install mode only.

SMU installation stops if the device is booted up in bundle mode and syslog messages are displayed. You must boot the switch in install mode to support SMU installation.

If the device boots in install mode, SMU installation continues to work as before.

IE3100: Booting Install Image from SD Card

After factory reset, to perform a swap drive sync from SD card to internal flash memory, you must manually boot the image available in the emergency partition so that the swap drive auto restore will occur from the emergency image. Booting an install image (packages.conf) from SD card is a last option and not generally recommended.

For more information about the SD swap drive, see Configuring SD Swap Drive.

IE3400: Hardware Changes may Require Action

Some hardware components on the Cisco Catalyst IE3400 Rugged Series and Cisco Catalyst IE3400 Heavy Duty Series switches have changed. The changes, which are automatically handled by the IOS XE software, do not affect switch functionality or the ordering process. New units shipped after May 31, 2022 have the hardware change.

However, you may need to upgrade the software, depending on which base switch and expansion module you have, as shown in the following table.



Note For detailed information about affected hardware versions, supported software releases, and instructions for different scenarios, see Field Notice FN72400 on Cisco.com.

If you have...	Then...
Older versions (shipped before May 31, 2022) of the base switch and expansion module	No action is required.

If you have...	Then...
Newer versions (shipped after May 31, 2022) of the base switch and expansion module	Deploy a supported Cisco IOS XE release. See Field Notice FN72400 for the requirements applicable to your deployment.
Newer version of the base switch with an older version of the expansion module	
Older version of the base switch with a newer version of the expansion module	

FPGA Profile

FPGA Profile is supported in Cisco IOS XE release 17.8 and later. In a Cisco IOS XE upgrade from an earlier release that does not support FPGA Profile, for example, an upgrade from Cisco IOS XE 17.7.1 to 17.8.1, the default FPGA Profile is installed. Any features controlled by FPGA Profile that are configured in the switch running the earlier release and that are not included in the default profile will be rejected.



Note This feature is supported for Cisco Catalyst IE3400 Rugged Series Switches and Cisco Catalyst IE3400 Heavy-Duty Series Switches.

For example, CTS IPv6 is not supported in the default profile, so CTS IPv6 configurations are rejected during bootup after the upgrade. Similarly, after a Cisco IOS XE upgrade where the cts-ipv6 profile is loaded, existing PRP configurations are rejected upon bootup.

To keep the existing profile and feature configurations after an upgrade:

1. After booting the switch, select the required FPGA Profile as described in "Changing the FPGA Profile", in System Management Configuration Guide, Cisco Catalyst IE3x00 Rugged, IE3400 Heavy Duty, and ESS3300 Series Switches, chapter "Configuring FPGA Profile".

   Do not copy running-config to startup-config or write memory.

2. Reload the switch.

   The required feature configurations will not be discarded because they are supported by the selected profile.

PoE Limitation on IE3x00

Even when using power supplies that can provide up to a supported maximum (for example, 170W, 240W, or 480W) for the PoE budget, the PoE budget for the IE3x00 defaults to 125W regardless of the power supplies used. You can configure the power budget to use the maximum.

Note Before changing the power budget, the minimum power requirements for the switch need to be considered as well. Refer to the data sheet for your switch for more details.

The attached power supply powers the IE3x00 switch operation as well as PoE power. When increasing the maximum PoE budget, you must subtract the power draw of the IE3x00 switch from the capacity of the attached power supply. You do so to prevent the IE3x00 switch from overdrawing the capacity of the attached power supply. For example, the IE3400 switch with an expansion module supports a maximum PoE budget of 480W. The IE3400-8P2S with an attached IEM-3400-8P draws 67W. With a 480W capacity power supply, the maximum you should configure the PoE budget is (480W-67W) 413W.

To use the power supply's maximum supported wattage for the PoE budget, configure the power supply max wattage in global configuration mode as follows:

1. Verify the maximum amount that the power supplies support for the PoE budget.
2. Subtract the operating power of the IE3x00 switch according to its datasheet from the maximum capacity of the power supply. This is your max PoE budget.
3. Enter **power inline max** *max-wattage* to increase the PoE budget based on the power supplies used.

   max-wattage is the maximum available PoE power.

IE3200 and IE3300 with 10Mbps or 100Mbps speed in Half-Duplex Mode

CRC errors were observed on the IE3200 and IE3300 platforms when the switch is configured with 10 or 100Mbps speed in half-duplex mode.

As a workaround, configure **no ptp enable** on the half-duplex interface. This improves ingress and egress latencies considerably and ensures that there are no late collisions (and therefore, no CRC errors).

The issue and workaround apply to Cisco IOS XE releases 17.3.5 and later.

L3 ACL limitation on usage of L4OP in ACLs

Layer 4 Operator (L4OP) in ACLs is limited by the hardware to a maximum of 8 L4OPs (range and gt) for UDP and 8 L4OPs for TCP, for a total of 16 global L4OPs. Keep in mind that the **range** operator consumes 2 L4OPs.

The L4OPs include: gt (greater than), lt (less than), neq (not equal), eq (equal), range (inclusive range).

Note The eq does not consume L4OPs. For more information see QoS Configuration Guide.

Cisco Catalyst IE and ESS Switches: Model Numbers

The following table lists the supported hardware models and the default license levels they are delivered with. For information about the available license levels, see section *License Levels*.

Model Number	Default License Level	Description
IE-3100-4T2S-E	Network Essentials	4x1 - Gigabit Ethernet 10/100/1000 RJ45 ports, 2x 100/1000 SFP fiber ports
IE-3100-8T2C-E	Network Essentials	8x1 - Gigabit Ethernet 10/100/1000 RJ45 ports, 2x dual-purpose 1000Base-T RJ45 or 2 100/1000 SFP fiber ports
IE-3100-8T4S-E	Network Essentials	8x1 - Gigabit Ethernet 10/100/1000 RJ45 ports, 4x 100/1000 SFP fiber ports
IE-3100-18T2C-E	Network Essentials	18x1 - Gigabit Ethernet 10/100/1000 RJ45 ports, 2x dual-purpose 1000Base-T RJ45 or 2x 00/1000 SFP fiber ports
IE-3105-8T2C-E	Network Essentials	8x1 - Gigabit Ethernet 10/100/1000 RJ45 ports, 2x dual-purpose 1000Base-T RJ45 or 2x 100/1000 SFP fiber ports
IE-3105-18T2C-E	Network Essentials	18x1 - Gigabit Ethernet 10/100/1000 RJ45 ports, 2x dual-purpose 1000Base-T RJ45 or 2x 100/1000 SFP fiber ports
ESS-3300-NCP-E	Network Essentials	Main Board without a cooling plate 2 ports of 10 GE fiber, 8 ports of GE copper. 4 of the 8 GE copper ports can also be combo ports. Terminal Power: 16W
ESS-3300-NCP-A	Network Advantage	Main Board without a cooling plate 2 ports of 10 GE fiber, 8 ports of GE copper. 4 of the 8 GE copper ports can also be combo ports. Terminal Power: 16W
ESS-3300-CON-E	Network Essentials	Main Board conduction cooled 2 ports of 10 GE fiber, 8 ports of GE copper. 4 of the 8 GE copper ports can also be combo ports Terminal Power: 16W
ESS-3300-CON-A	Network Advantage	Main Board conduction cooled 2 ports of 10 GE fiber, 8 ports of GE copper. 4 of the 8 GE copper ports can also be combo ports Terminal Power: 16W

Model Number	Default License Level	Description
ESS-3300-24T-NCP-E	Network Essentials	Main Board with a 16p Expansion Board without a cooling plate 2 ports of 10 GE fiber, 24 ports of GE copper 4 of 8 GE ports can be combo ports on mainboard 4 of 16 GE ports can be combo ports on expansion board Terminal Power: 24W
ESS-3300-24T-NCP-A	Network Advantage	Main Board with a 16p Expansion Board without a cooling plate 2 ports of 10 GE fiber, 24 ports of GE copper 4 of 8 GE ports can be combo ports on mainboard 4 of 16 GE ports can be combo ports on expansion board Terminal Power: 24W
ESS-3300-24T-CON-E	Network Essentials	Main Board with a 16p Expansion Board conduction cooled 2 ports of 10 GE fiber, 24 ports of GE copper 4 of 8 GE ports can be combo ports on mainboard 4 of 16 GE ports can be combo ports on expansion board Terminal Power: 24W
ESS-3300-24T-CON-A	Network Advantage	Main Board with a 16p Expansion Board conduction cooled 2 ports of 10 GE fiber, 24 ports of GE copper 4 of 8 GE ports can be combo ports on mainboard 4 of 16 GE ports can be combo ports on expansion board Terminal Power: 24W
IE-3200-8T2S-E	Network Essentials	8x1 - Gigabit Ethernet 10/100/1000 RJ45 ports, 2 fiber 100/1000 SFP-based ports, non-PoE
IE-3200-8P2S-E	Network Essentials	8x1 - Gigabit Ethernet 10/100/1000 PoE/PoE+ ports, 2 fiber 100/1000 SFP-based ports; PoE power budget of 240W
IE-3300-8T2S-E	Network Essentials	8x1 - Gigabit Ethernet 10/100/1000 RJ45 ports, 2 fiber 100/1000 SFP-based ports, non-PoE

Model Number	Default License Level	Description
IE-3300-8P2S-E	Network Essentials	8x1 - Gigabit Ethernet 10/100/1000 PoE/PoE+ ports, 2 fiber 100/1000 SFP-based ports; PoE power budget of 360W (including expansion module)
IE-3300-8T2S-A	Network Advantage	8x1 - Gigabit Ethernet 10/100/1000 RJ45 ports, 2 fiber 100/1000 SFP-based ports, non-PoE
IE-3300-8P2S-A	Network Advantage	8x1 - Gigabit Ethernet 10/100/1000 PoE/PoE+ ports, 2 fiber 100/1000 SFP-based ports; PoE power budget of 360W (including expansion module)
IE-3300-8T2X-A	Network Advantage	8x1 - Gigabit Ethernet 10/100/1000 RJ45 ports, 2 fiber 1/10 Gigabit Ethernet SFP-based ports, non-PoE
IE-3300-8T2X-E	Network Essentials	8x1 - Gigabit Ethernet 10/100/1000 RJ45 ports, 2 fiber 1/10 Gigabit Ethernet SFP-based ports, non-PoE
IE-3300-8U2X-E	Network Essentials	8x1 - Gigabit Ethernet 10/100/1000 4PPoE (802.3bt type 3) ports, 2 fiber 1/10 Gigabit Ethernet SFP-based ports; PoE power budget of 480W
IE-3300-8U2X-A	Network Advantage	8x1 - Gigabit Ethernet 10/100/1000 4PPoE (802.3bt type 3) ports, 2 fiber 1/10 Gigabit Ethernet SFP-based ports; PoE power budget of 480W
IE-3400-8T2S-E	Network Essentials	8x1 - Gigabit Ethernet 10/100/1000 RJ45 ports, 2 fiber 100/1000 SFP-based ports, non-PoE
IE-3400-8T2S-A	Network Advantage	8x1 - Gigabit Ethernet 10/100/1000 RJ45 ports, 2 fiber 100/1000 SFP-based ports, non-PoE
IE-3400-8P2S-E	Network Essentials	8x1 - Gigabit Ethernet 10/100/1000 RJ45 ports, 2 fiber 100/1000 SFP-based ports with PoE
IE-3400-8P2S-A	Network Advantage	8x1 - Gigabit Ethernet 10/100/1000 RJ45 ports, 2 fiber 100/1000 SFP-based ports with PoE
IE-3400H-8T-E	Network Essentials	8x1 - Gbps X-Coded ports, 1 Alarm input and 1 Alarm output, 1 Console port, mini-change input for Single power source
IE-3400H-8T-A	Network Advantage	8x1 - Gbps X-Coded ports, 1 Alarm input and 1 Alarm output, 1 Console port, mini-change input for Single power source
IE-3400H-8FT-E	Network Essentials	8x1 - 100Mbps D-coded ports, 1 Alarm input and 1 Alarm output, 1 Console port, Mini-change input for Single Power Source .

Model Number	Default License Level	Description
IE-3400H-8FT-A	Network Advantage	8x1 - Mbps D-coded ports, 1 Alarm input and 1 Alarm output, 1 Console port, Mini-change input for Single Power Source .
IE-3400H-16T-E	Network Essentials	16x1 - Gbps X-Coded ports, 1 Alarm input and 1 Alarm output, 1 Console port, mini-change input for Single power source
IE-3400H-16T-A	Network Advantage	16x1 - Gbps X-Coded ports, 1 Alarm input and 1 Alarm output, 1 Console port, mini-change input for Single power source
IE-3400H-16FT-E	Network Essentials	16x1 - 100Mbps D-coded ports, 1 Alarm input and 1 Alarm output, 1 Console port, Mini-change input for Single Power Source .
IE-3400H-16FT-A	Network Advantage	16x1 - 100Mbps D-coded ports, 1 Alarm input and 1 Alarm output, 1 Console port, Mini-change input for Single Power Source .
IE-3400H-24T-E	Network Essentials	24x1 - Gbps X-Coded ports, 1 Alarm input and 1 Alarm output, 1 Console port, mini-change input for Single power source
IE-3400H-24T-A	Network Advantage	24x1 - Gbps X-Coded ports, 1 Alarm input and 1 Alarm output, 1 Console port, mini-change input for Single power source
IE-3400H-24FT-E	Network Essentials	24x1 - 100Mbps D-coded ports, 1 Alarm input and 1 Alarm output, 1 Console port, Mini-change input for Single Power Source .
IE-3400H-24FT-A	Network Advantage	24x1 - 100Mbps D-coded ports, 1 Alarm input and 1 Alarm output, 1 Console port, Mini-change input for Single Power Source .

WebUI System Requirements

The WebUI is a web browser-based switch management tool that runs on the switch. The following subsections list the hardware and software required to access the WebUI.

Minimum Hardware Requirements

Processor Speed	DRAM	Number of Colors	Resolution
233 MHz minimum[1]	512 MB[2]	256	1280 x 800 or higher

[1] We recommend 1 GHz

[2] We recommend 1 GB DRAM

Software Requirements

Operating Systems

- Windows 10 or later
- Mac OS X 10.9.5 or later

Browsers

- Google Chrome: Version 59 or later (On Windows and Mac)
- Microsoft Edge
- Mozilla Firefox: Version 54 or later (On Windows and Mac)
- Safari: Version 10 or later (On Mac)

Upgrading the Switch Software

This section covers the various aspects of upgrading or downgrading the device software.

Note See the Cisco IOS XE Migration Guide for IIoT Switches for the latest information about upgrading and downgrading switch software.

SSH Algorithms for Common Criteria Certification Limitation

Starting with Cisco IOS XE Release 17.10, the following Key Exchange and MAC algorithms are removed from the default list:

- Key Exchange algorithm:
  - diffie-hellman-group14-sha1
- MAC algorithms:
  - hmac-sha1
  - hmac-sha2-256
  - hmac-sha2-512

Note You can use the **ip ssh server algorithm kex** command to configure the Key Exchange algorithm and the **ip ssh server algorithm mac** command to configure the MAC algorithms.

Finding the Software Version

The package files for Cisco IOS XE software can be found on the system board's internal flash memory device (flash:) or an external USB, depending on the device configuration.

You can use the **show version** privileged EXEC command to see the software version that is running on your switch.



Note Although the **show version** output always shows the software image running on the switch, the model name shown at the end of this display is the factory configuration and does not change if you upgrade the software license.

You can also use the **dir** *filesystem:* privileged EXEC command to see the names and versions of other software images that you might have stored in flash memory.

Software Images 17.15.x

The following table provides the file names for the IOS XE 17.15.x software images for Cisco Catalyst IE3x00 Rugged, IE3400 Heavy Duty, ESS3300, and IE3100 Rugged Series Switches.

Release	Image Type	Platform	File Name
Cisco IOS XE.17.15.6	Universal	IE3x00 (IE3200, IE3300, IE3400, IE3400H)	ie3x00-universalk9.17.15.06.SPA.bin
		ESS3300	ess3x00-universalk9.17.15.06.SPA.bin
		IE3100 and IE3105	ie31xx-universalk9.17.15.06.SPA.bin
Cisco IOS XE.17.15.5	Universal	IE3x00 (IE3200, IE3300, IE3400, IE3400H)	ie3x00-universalk9.17.15.05.SPA.bin
		ESS3300	ess3x00-universalk9.17.15.05.SPA.bin
		IE3100 and IE3105	ie31xx-universalk9.17.15.05.SPA.bin
Cisco IOS XE.17.15.4	Universal	IE3x00 (IE3200, IE3300, IE3400, IE3400H)	ie3x00-universalk9.17.15.04.SPA.bin
		ESS3300	ess3x00-universalk9.17.15.04.SPA.bin
		IE3100 and IE3105	ie31xx-universalk9.17.15.04.SPA.bin

Release	Image Type	Platform	File Name
Cisco IOS XE.17.15.3	Universal	IE3x00 (IE3200, IE3300, IE3400, IE3400H)	ie3x00-universalk9.17.15.03.SPA.bin
		ESS3300	ess3x00-universalk9.17.15.03.SPA.bin
		IE3100 and IE3105	ie31xx-universalk9.17.15.03.SPA.bin
Cisco IOS XE.17.15.2	Universal	IE3x00 (IE3200, IE3300, IE3400, IE3400H)	ie3x00-universalk9.17.15.02.SPA.bin
		ESS3300	ess3x00-universalk9.17.15.02.SPA.bin
		IE3100 and IE3105	ie31xx-universalk9.17.15.02.SPA.bin
Cisco IOS XE.17.15.1	Universal	IE3x00 (IE3200, IE3300, IE3400, IE3400H)	ie3x00-universalk9.17.15.01.SPA.bin
		ESS3300	ess3x00-universalk9.17.15.01.SPA.bin
		IE3100 and IE3105	ie31xx-universalk9.17.15.01.SPA.bin

Automatic Boot Loader Upgrade

When you upgrade from the existing release on your switch to a later release for the first time, the boot loader may be automatically upgraded, based on the hardware version of the switch. If the boot loader is automatically upgraded, it will take effect on the next reload.

For subsequent Cisco IOS XE releases, if there is a new bootloader in that release, it may be automatically upgraded based on the hardware version of the switch when you boot up your switch with the new image for the first time.



Caution Do not power cycle your switch during the upgrade.

Scenario	Automatic Boot Loader Response

When you boot Cisco IOS XE for the first time	Boot loader may be upgraded to version "8.1.2" for IE3x00 and ESS-3300.
	`Checking Bootloader upgrade...`
	`…`
	`Bootloader upgrade successful`

Software Installation Commands

Note For the **install** command to be successful, ensure that available flash space is at least twice the image size. If there is not enough space available in flash, you are advised to free up space in flash either by issuing the **install remove inactive** command or to manually clean up the flash by removing unwanted core files or any other files that occupy a large amount of space in flash.

Summary of Software Installation Commands for Install Mode	
To install and activate the specified file, and to commit changes to be persistent across reloads: **install add file** *filename* [**activate commit**]	
add file tftp: *filename*	Copies the install file package from a remote location to the device and performs a compatibility check for the platform and image versions.
activate [**auto-abort-timer**]	Activates the file, and reloads the device. The **auto-abort-timer** keyword automatically rolls back image activation.
commit	Makes changes persistent over reloads.
remove	Deletes all unused and inactive software installation files.

Licensing

For information about the licensing packages for features available on Cisco Catalyst IE3x00 Rugged, IE3400 Heavy Duty, and ESS3300 Series Switches and Cisco Catalyst IE3100 Rugged Series Switches, see Licensing on the Cisco Catalyst IE3x00 and IE3100 Rugged, IE3400 Heavy Duty, and ESS3300 Series Switches.

Caveats

Caveats describe unexpected behavior in Cisco IOS XE releases. Caveats listed as open in a prior release are carried forward to the next release as either open or resolved.

Cisco Bug Search Tool

Cisco Bug Search Tool is a web-based tool that acts as a gateway to the Cisco bug tracking system that maintains a comprehensive list of defects and vulnerabilities in Cisco products and software. BST provides you with detailed defect information about your products and software.

Click the link for the caveat in the sections below to view details for the caveat in Bug Search Tool.

Open Caveats in Cisco IOS XE 17.15.x

Identifier	Description
CSCwt38298	IE3200 Memory Leak in Pool Manager and Possible Crashes

Identifier	Description
CSCwt13348	switchport block multicast not working after switch reload or shut/no shut on interface
CSCwt95175	IE 3x00 ends up in Device Unresponsive ({"i18n":{"code":"NCIM12011"}) state when added to CATC inventory
CSCwt37847	IE3100 - 17.15.2 / 17.18.2 - duplicate or looping of packets - ICMPv6 RA and NA packet
CSCws31153	Hardening of IP Default Gateway removal

Resolved Caveats in Cisco IOS XE 17.15.6

No customer-impacting bugs were fixed in this release.

Resolved Caveats in Cisco IOS XE 17.15.5

Identifier	Description
CSCwm35870	IE3500: Power profile is not working for Tengig to 1Gig copper combination in tagged mode
CSCwq27349	IE3400 configured for HSR/PRP, when copper interface 1/3-4 set to 100mb HSR PTP tag missing.
CSCwq73986	Connectivity issue between ccv-sensor-app and default gateway
CSCwr63196	IE3100 is duplicating the IPv6 packets received
CSCwr81607	IE3400 SNMP Multicast Counters not working - ifOutMulticastPkts
CSCws17503	Broadcast traffic is leaking over a routed port
CSCws35687	L4 ACLs not summarised properly causing some entries to not take effect
CSCwn56770	IE3100 | SNMP IfOperstatus shows as "Not Present" regardless of the actual status
CSCwp84508	Device with IPv6 ACL applied on 13 or more interfaces crashes on reload
CSCwq21589	IE3400H: FTP fails between port G1/1 and G1/2 with L2NAT
CSCwq80434	With "reload" command, switchports stay up for an extended time after the switch stops forwarding traffic.
CSCwr05475	IE3400 - 17.12.3 - Memory Leak observed in SNMP ENGINE
CSCwr42830	IE3300 - MKA session fails to come up after upgrade or power cycle
CSCws21033	IPDT duplicating ICMPV6 RS,NA,NS packets while egressing
CSCwr62046	ICMPv6 packets are duplicated when device tracking is enabled on the interface

Identifier	Description
CSCwp38345	DHCP snooping dropping DHCP discover message for non CDP devices
CSCwp38501	IE-3300-8T2S-E switch not forwarding STCN packet intermittently

Resolved Caveats in Cisco IOS XE 17.15.4

Identifier	Description
CSCwo15432	PTP stop working after ACL with permit ip any any.
CSCwo96008	PTP not processed/forwarded on ESS3300 running 17.12.04.
CSCwp24973	Code and GSDML changes for SFP 10G-SR-S.
CSCwj82708	Intermittent network connectivity with interfaces with speed/duplex of 100/half.
CSCwm39413	ESS3300: Port power deny power if lower consumption value configured, recovers with port reset.
CSCwn88892	%IMSP_ACLMGR-3-INVALIDACL: Add access-list failed error on IE3400 switches.
CSCwo33351	Observed \"rep bpduleak\" CLI in Latest image.
CSCwp05951	IE3400 increments input/CRC/L2nat discards/Ethernet-controller stats unexpectedly with L2nat config.
CSCwm30760	DHCP Client on PVLAN loses connectivity when moved from one switch to other.
CSCwn48091	DHCP Client on PVLAN does not receive IP address from DHCP server and unable to reach its gateway.
CSCwp01132	Cts role based permissions are getting erased when monitor mode is toggled from ISE.

Resolved Caveats in Cisco IOS XE 17.15.3

Identifier	Description
CSCwm85265	REP ZTP functioning incoherent
CSCwn47744	Device not able to ping on trunk port when \"vlan dot1q tag native\" is configured globally
CSCwj68054	MAT event not working on EEM for IE3400 switches
CSCwm36038	ESS-3300 forwards unicast traffic to all promiscuous ports
CSCwn62607	IE3100-PN connect issues due to out of AR resources

Identifier	Description
CSCwn65142	Disable REP NEG as REP ZTP functioning incoherent

Resolved Caveats in Cisco IOS XE 17.15.2

Identifier	Description
CSCwj97078	IE3400: Traffic is not forwarded over mrouter ports.
CSCwk86434	IE3100: Configuration failed to parse with a good ciscortr.cfg.
CSCwm30681	Device not able to ping on trunk port when `vlan dot1q tag native` is configured globally.
CSCwm33057	Slowness on ie-3100 when polling snmp OIDs.
CSCwm47470	Endpoints with 10Mbps speed in Half-Duplex Mode drops the connection.
CSCwm39554	IE3x00 crashes upon bootup on the latest internal 17.12.x and 17.9.x builds
CSCwm55828	Websocket connection will not establish using ida.
CSCwm66445	IE3x00:Device crashed after locate switch stopped from WebUI.
CSCwm10601	Format of sd is not clearing sdpartition.
CSCwm83468	After inserting 10G CU SFP, the speed is changing to 100/1000 in ESS3300.
CSCwk86434	IE3100: Configuration failed to parse with a good ciscortr.cfg.

Resolved Caveats in Cisco IOS XE 17.15.1

Identifier	Description
CSCwi31665	IE3400 shows in inventory with Incorrect Category Network Device error
CSCwi49051	IE-3300 Configuration Issue for IP Source Guard
CSCwi64278	ESS-3300 | Multicast Packets are dropped with Source Guard Feature Enabled
CSCwi66479	Intermittent packet drops and log "Error: LPM IPv6 100% capacity is reached."
CSCwi69364	NETCONF get config returns <add-vlans> <add> and <remove> after changing allowed trunk VLANs via CLI
CSCwi80954	IE-3300 drops unicast DHCP Discover packet if DHCP Snooping is enabled globally on L3 interfaces
CSCwi90435	ESS3300- Stopping unknown unicast needs a toggle to work after reload
CSCwj15427	IE3300 drops ARP packets for a VLAN, when DAI is configured globally on any VLAN

Identifier	Description
CSCwj23080	IE-3400 crashes after clear cts due segmentation fault
CSCwj34960	IE3400: IPDT feature with vrf configuration causes arp learning failure
CSCwj70605	Switch drops ARP packets for a VLAN, when DAI is configured globally on any VLAN
CSCwj91206	Profinet and LLDP configuration is not visible in startup config and is missing after reload
CSCwk30765	PNP/Autoinstall failing.
CSCwk31099	IE3100 interfaces fail to recover after being disabled when connected to 3rd party device
CSCwk62620	Device hangs while loading 17.14.1, if any SFP connected in TenGig1/2 port

Troubleshooting

For the most up-to-date, detailed troubleshooting information, see the Cisco TAC website at this URL:

https://www.cisco.com/en/US/support/index.html

Go to **Product Support** and select your product from the list or enter the name of your product. Look under Troubleshoot and Alerts to find information for the problem that you are experiencing.

Related Documentation

Information about Cisco IOS XE at this URL: https://www.cisco.com/c/en/us/products/ios-nx-os-software/ios-xe/index.html

All support documentation for Cisco Catalyst IE3100 Rugged Series Switches is at this URL: https://www.cisco.com/c/en/us/support/switches/catalyst-ie3100-rugged-series/series.html

All support documentation for Cisco Catalyst IE3100H Heavy Duty Series Switches is at this URL: https://www.cisco.com/c/en/us/support/switches/catalyst-ie3100-heavy-duty-series/series.html

All support documentation for Cisco Catalyst IE3200 Rugged Series Switches is at this URL: https://www.cisco.com/c/en/us/support/switches/catalyst-ie3200-rugged-series/tsd-products-support-series-home.html

All support documentation for Cisco Catalyst IE3300 Rugged Series Switches is at this URL: https://www.cisco.com/c/en/us/support/switches/catalyst-ie3300-rugged-series/tsd-products-support-series-home.html

All support documentation for Cisco Catalyst IE3400 Rugged Series Switches is at this URL: https://www.cisco.com/c/en/us/support/switches/catalyst-ie3400-rugged-series/tsd-products-support-series-home.html

All support documentation for Cisco Catalyst IE3400H Heavy Duty Series Switches is at this URL: https://www.cisco.com/c/en/us/support/switches/catalyst-ie3400-heavy-duty-series/tsd-products-support-series-home.html

All support documentation for Cisco ESS3300 Series Switches is at this URL: https://www.cisco.com/c/en/us/support/switches/embedded-service-3000-series-switches/tsd-products-support-series-home.html

Cisco Validated Designs documents at this URL: https://www.cisco.com/go/designzone

To locate and download MIBs for selected platforms, Cisco IOS releases, and feature sets, use Cisco MIB Locator found at the following URL: http://www.cisco.com/go/mibs

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