Release Notes for Cisco Catalyst IE3x00, IE3400 Heavy Duty, and ESS3300 Series Switches, Release 26.1.x

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Cisco Catalyst IE3x00, IE3100 Heavy Duty, IE3400 Heavy Duty, and ESS3300 Series Switches, Release 26.1.x 3
New software features 3
New hardware features 4
Change in behavior 5
Resolved issues 6
Open issues 7
Known issues 8
Compatibility 8
Supported hardware 9
Supported software packages 15
Related resources 16
Legal information 17

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Cisco Catalyst IE3x00, IE3100 Heavy Duty, IE3400 Heavy Duty, and ESS3300 Series Switches, Release 26.1.x

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

- Cisco Catalyst IE3100 Rugged Series
- Cisco Catalyst IE3x00 Rugged Series
- Cisco Catalyst IE3400 Heavy Duty Series
- Cisco Catalyst IE3100 Heavy Duty Series
- Cisco Embedded Services 3300 Series

Cisco Catalyst IE3x00 Rugged Series Switches provide advanced features and full Gigabit Ethernet performance 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 software features

This section provides a brief description of the new software features introduced in the Cisco IOS XE 26.1.x release.

IOS XE 26.1.2

There are no new software features in this release.

IOS XE 26.1.1

Table 1. New software features in release 26.1.1

Product Impact	Feature	Description
Security	Resilient Infrastructure	As part of the ongoing commitment to network security, this release introduces secure alternatives to legacy commands. These updates are designed to mitigate potential risks and assist in establishing a more robust and secure operational baseline.

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Product Impact	Feature	Description
		The identified insecure commands are categorized as: • Line transport: Updates to secure remote access methods. • Device server configuration: Hardening of server-side settings. • File transfer protocols: Transitioning to encrypted transfer methods. • SNMP: Enhancements to secure management traffic. • Passwords: Strengthening authentication and credential management. • Miscellaneous: General security improvements for various system functions. The show system insecure configuration command introduced in Cisco IOS XE 17.18.2 release lists all insecure commands configured on the device. For all detected insecure configurations during device boot or upgrade, error messages are displayed. In Cisco IOS XE 26.1.1 release, all insecure CLI commands are blocked by default to strengthen your network infrastructure. If your environment requires the use of a legacy command, you must enable the system mode insecure command in global configuration mode. • Recommendation: Do not use insecure mode. This mode is temporary and will be removed in a future release. Identify and replace all insecure commands with their secure alternatives. • Upgrade behavior: If you upgrade to Cisco IOS XE 26.1.1 release with insecure commands already present in the running configuration, the system mode insecure command is automatically added to your configuration to prevent service disruption. For more information, refer to Resilient Infrastructure IOS XE Security Warnings Reference
Upgrade	PROFINET system redundancy	This feature enables Cisco Industrial Ethernet (IE) switches to interoperate with existing high-availability systems by providing robust controller failover using PROFINET S2 controller redundancy mode. It aims to minimize potential issues and downtime in the event of network or controller failures.
Software Reliability	Read-only PROFINET	This feature enhances device security and network flexibility by setting Discovery and Configuration Protocol (DCP) operations to read-only mode. It safeguards the IP address, gateway, and device name from modifications, protects essential network settings to prevent unexpected connectivity loss, and remains compatible with LLDP, SNMP, and CDP. Additionally, it enables devices to carry out identification and basic network discovery.
Ease of use	Industrial Asset Discovery Completion	Industrial Asset Auto-Discovery feature automatically identifies, and catalogs directly connected industrial devices without impacting network performance. This feature exports inventory data to a syslog server in JSON format, streamlining asset tracking, security enforcement, and the detection of unauthorized hardware.

New hardware features

This section provides a brief description of the new hardware features introduced in Cisco IOS XE 26.1.x release.

IOS XE 26.1.2

There are no new hardware features in this release.

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IOS XE 26.1.1

There are no new hardware features introduced in this release.

Change in behavior

Syslog warning on reload for SSH Hostkeys

After a device reload, a syslog warning may appear indicating insufficient key length, even when a strong RSA or EC key is already configured.

Note:

- If the syslog warning message displays ***crypto key generate rsa modulus <modulus-size> label <label-name>,*** then the *<modulus-size>* and *<label-name>* represent the actual modulus size and label configured on the device.
- The SSH keypair association configuration is done using the command: **ip ssh ec|rsa <**keypair-name**>**, where *<keypair-name>* corresponds to the keypair name configured on the device.

Example warnings:

RSA

Warning Observed: INSECURE DYNAMIC WARNING - Module: SSH.

Command: crypto key generate rsa modulus <modulus-size> label <label-name>.

Reason: An SSH hostkey has been provisioned on the device with insufficient key length.

Remediation: Provision an SSH RSA hostkey with minimum modulus size of 3072 bits for enhanced security.

Sub mode: exec.

Parent CLI: Not Applicable.

EC

Warning Observed: INSECURE DYNAMIC WARNING - Module: SSH.

Command: crypto key generate ec keysize <modulus-size> label <label-name>.

Reason: An SSH hostkey has been provisioned on the device with insufficient key length.

Remediation: Provision an SSH hostkey with minimum modulus size of 256 bits for enhanced security.

Sub mode: exec.

Parent CLI: Not Applicable.

If you have already configured a strong key and associated it using **ip ssh ec|rsa <keypair-name>**, you can ignore this warning during boot. The configured SSH keypair association is applied after the boot process, and SSH then uses the correct key for secure connections once the configuration is active.

FPGA profile

FPGA profiles are supported on Cisco Catalyst IE3400 Rugged Series and IE3400 Heavy Duty Series Switches beginning with Cisco IOS XE Release 17.8. The switch installs the default FPGA profile by default. During startup, the switch rejects any existing feature configurations that are not supported by the installed FPGA profile.

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To retain existing feature configurations that are supported by the required FPGA profile, follow these steps:

1. After the switch starts, select the required FPGA profile. For more information, see the "Configure an FPGA Profile" chapter of the System Management Configuration Guide, Cisco Catalyst IE3x00 Rugged, IE3400 Heavy Duty, and ESS3300 Series Switches.

Important: Do not copy the running configuration to the startup configuration or enter the write memory command.

2. Reload the switch.

After the reload, the switch retains the existing feature configurations that are supported by the selected FPGA profile.

Resolved issues

This section lists resolved issues in Cisco IOS XE Release 26.1.x.

Note: This software release may contain bug fixes first introduced in other releases. To see additional information, click the bug ID to access the Cisco Bug Search Tool.

IOS XE 26.1.2

Table 2. Resolved issues in release 26.1.2

Bug ID	Description
CSCwq33068	IE3300 Low bandwidth when IPerf traffic sent from PC with 1G speed on uplink ports with GLCT.
CSCwt37847	IE3100 - 17.15.2 / 17.18.2 - duplicate or looping of packets - ICMPv6 RA and NA packet
CSCwt38298	IE3200 Memory Leak in Pool Manager and Possible Crashes

IOS XE 26.1.1

Table 3. Resolved issues release 26.1.1

Bug ID	Description
CSCwo96008	PTP not processed/forwarded on ESS3300 running 17.12.04
CSCwp24973	Support for SFP 10G-SR-S in Profinet Module
CSCwq73986	connectivity issue between ccv-sensor-app and default gateway
CSCwr62046	ICMPv6 packets are duplicated when device tracking is enabled on the interface
CSCwr81607	IE3400 SNMP Multicast Counters not working - ifOutMulticastPkts
CSCwr90222	IE3400:Padding is not working correctly with vlan tag when PRP is enabled
CSCws17503	Broadcast traffic is leaking over a routed port

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Bug ID	Description
CSCwt13348	switchport block multicast not working after switch reload or shut/no shut on interface
CSCwp05951	IE3400 increments input/CRC/L2nat discards/Ethernet-controller stats unexpectedly with L2nat config.
CSCwp38345	DHCP snooping dropping DHCP discover message for non CDP devices
CSCwp38501	IE-3300-8T2S-E switch not forwarding STCN packet intermittently
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
CSCws18543	Rate limit is failing when there is L2 Loop

Open issues

This table lists open issues in Cisco IOS XE 26.1.x release.

Note: This software release may contain open bugs first identified in other releases. To see additional information, click the bug ID to access the Cisco Bug Search Tool.

IOS XE 26.1.2

Table 4. Open issues release 26.1.2

Bug ID	Description
CSCwu58296	IE 3100 6P2U2C-E switch is consistently crashing and reloading whenever an 802.1X supplicant disconnects or the authentication state changes.
CSCwt95175	IE 3x00 ends up in Device Unresponsive ({\"i18n\":{\"code\":\"NCIM12011\"}) state when added to CATC inventory

IOS XE 26.1.1

Table 5. Open issues in release 26.1.1

Bug ID	Description
CSCwt37847	E3100 - 17.15.2 / 17.18.2 - duplicate or looping of packets - ICMPv6 RA and NA packet
CSCwt38298	IE3200 Memory Leak in Pool Manager and Possible Crashes
CSCwt68784	[ESS-3300]: RADIUS packets routed via Mgmt-vrf when "ip vrf forwarding" and "source-interface" is configured in the server group

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Known issues

This section lists the limitations.

PoE configuration on Cisco Catalyst IE3x00 Switch

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. Please 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 maximum PoE budget.
3. Enter **power inline max** *max-wattage* to increase the PoE budget based on the power supplies used.
4. *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 L4OP (range and gt) for UDP and 8 L4OP for TCP, for a total of 16 global L4OP. Keep in mind that the **range** operator consumes 2 L4OP.

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.

Compatibility

Refer to Cisco IOS XE Migration Guide for IIoT Switches for software upgrade and downgrade information for Cisco Catalyst IE3x00, IE3400 Heavy Duty, and ESS3300 Series Switches, Release 26.1.x.

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Supported hardware

This section lists the hardware support information.

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: 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 Cisco Catalyst IE3300 Switches

To see if the IE3300-8P2S switch or IE3300-8T2S 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.



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

```
Switch# show version
```

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```
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
```

IE3300-8U2X and IE3300-8T2X switches have supported IOx since the Cisco IOS XE 17.4.1 release.

Startup configuration is always read from flash

From Cisco IOS XE release 17.10.1, the startup configuration is always read from flash. The latest configuration is available only in flash when you save the running config, irrespective of the booted media (for example, flash, sdflash, or usbflash) and the boot mode (install or bundle). If a switch cannot find a configuration in flash, it will try to find one in sdflash.

Note: Starting from the Cisco IOS XE release 17.10.1, you can configure Cisco Catalyst embedded switches to use USB flash as the primary boot device.

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 Release 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 is booted up in install mode, SMU installation continues to work as before.

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 expansions 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 Notices 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.

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If you have...	then...
Newer versions (shipped after May 31, 2022) of the base switch and expansion module	Deploy one of the supported releases of IOS XE. Refer to Field Notices on Cisco.com for details that are appropriate to your deployment.
Newer version of the base switch with an older version of the expansion module	Deploy one of the supported releases of IOS XE. Refer to Field Notices on Cisco.com for details that are appropriate to your deployment.
Older version of the base switch with a newer version of the expansion module	Deploy one of the supported releases of IOS XE. Refer to Field Notices on Cisco.com for details that are appropriate to your deployment.

Cisco Catalyst IE and ESS Switches: Model numbers

This 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.*

Table 6. Hardware models and their default license levels

Model Number	Default License Level	Description
IE-3100-4P2S-E	Network Essentials	4 x Gigabit Ethernet 10/100/1000 PoE/PoE+ RJ45 ports, 2 x 100/1000 SFP ports
IE-3100-8P2C-E	Network Essentials	8 x Gigabit Ethernet 10/100/1000 PoE/PoE+ RJ45 ports, 2 x dual-purpose 1000Base-T RJ45 or 2 100/1000 SFP ports
IE-3100-18T2C-CC-E	Network Essentials	18 x Gigabit Ethernet 10/100/1000 RJ45 ports, 2 x dual-purpose 1000Base-T RJ45 or 2 100/1000 SFP ports, conformal coating
IE-3100-4T2S-E	Network Essentials	4 x Gigabit Ethernet 10/100/1000 RJ45 ports, 2x 100/1000 SFP ports
IE-3100-8T2C-E	Network Essentials	8 x Gigabit Ethernet 10/100/1000 RJ45 ports, 2x dual-purpose 1000Base-T RJ45 or 2 100/1000 SFP ports
IE-3100-8T4S-E	Network Essentials	8 x Gigabit Ethernet 10/100/1000 RJ45 ports, 4x 100/1000 SFP ports
IE-3100-18T2C-E	Network Essentials	18 x Gigabit Ethernet 10/100/1000 RJ45 ports, 2x dual-purpose 1000Base-T RJ45 or 2x 00/1000 SFP ports
IE-3105-8T2C-E	Network Essentials	8 x Gigabit Ethernet 10/100/1000 RJ45 ports, 2x dual-purpose 1000Base-T RJ45 or 2x 100/1000 SFP ports
IE-3105-18T2C-E	Network Essentials	18 x Gigabit Ethernet 10/100/1000 RJ45 ports, 2x dual-purpose 1000Base-T RJ45 or 2x 100/1000 SFP ports
IE-3100H-8T	Network Essentials	8 x Gigabit Ethernet 10/100/1000 M12 X-coded ports

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Model Number	Default License Level	Description
IE-3100H-6FT2T	Network Essentials	2 x Gigabit Ethernet 10/100/1000 M12 X-coded ports, 6 x 10/100 Fast Ethernet M12 D-coded 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
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

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Model Number	Default License Level	Description
		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	8 x Gigabit Ethernet 10/100/1000 RJ45 ports, 2 fiber 100/1000 SFP-based ports, non-PoE
IE-3200-8P2S-E	Network Essentials	8 x 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	8 x Gigabit Ethernet 10/100/1000 RJ45 ports, 2 fiber 100/1000 SFP-based ports, non-PoE
IE-3300-8P2S-E	Network Essentials	8 x 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	8 x Gigabit Ethernet 10/100/1000 RJ45 ports, 2 fiber 100/1000 SFP-based ports, non-PoE
IE-3300-8P2S-A	Network Advantage	8 x 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	8 x Gigabit Ethernet 10/100/1000 RJ45 ports, 2 fiber 1/10 Gigabit Ethernet SFP-based ports, non-PoE
IE-3300-8T2X-E	Network Essentials	8 x Gigabit Ethernet 10/100/1000 RJ45 ports, 2 fiber 1/10 Gigabit Ethernet SFP-based ports, non-PoE
IE-3300-8U2X-E	Network Essentials	8 x 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	8 x 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 (requires an expansion module to deliver 480W)
IE-3400-8T2S-E	Network Essentials	8 x Gigabit Ethernet 10/100/1000 RJ45 ports, 2 fiber 100/1000 SFP-based ports, non-PoE
IE-3400-8T2S-A	Network Advantage	8 x Gigabit Ethernet 10/100/1000 RJ45 ports, 2 fiber 100/1000 SFP-based ports, non-PoE
IE-3400-8P2S-E	Network Essentials	8 x Gigabit Ethernet 10/100/1000 RJ45 ports, 2 fiber 100/1000 SFP-based ports with PoE
IE-3400-8P2S-A	Network Advantage	8 x Gigabit Ethernet 10/100/1000 RJ45 ports, 2 fiber 100/1000 SFP-based ports with PoE
IE-3400H-8T-E	Network Essentials	8 x 1-Gbps X-Coded ports, 1 Alarm input and 1 Alarm output, 1 Console port, mini-change input for Single power source

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Model Number	Default License Level	Description
IE-3400H-8T-A	Network Advantage	8 x 1-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	8 x 100-Mbps D-coded ports, 1 Alarm input and 1 Alarm output, 1 Console port, Mini-change input for Single Power Source
IE-3400H-8FT-A	Network Advantage	8 x 100-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	16 x 1-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	16 x 1-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	16 x 100-Mbps 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	16 x 100-Mbps 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	24 x 1-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	24 x 1-Gbps X-Coded ports, 1 Alarm input and 1 Alarm output, 1 Console port, mini-change input for Single power source
IE-3400H24FT-E	Network Essentials	24 x 100-Mbps 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	24 x100-Mbps 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. These subsections list the hardware and software required to access the WebUI.

Minimum hardware requirements

Processor speed	DRAM	Number of colors	Resolution
233 MHz (We recommend minimum 1GHz)	512 MB (We Recommend 1GB DRAM)	256	1280 x 800 or higher

Software requirements

Operating systems

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

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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)

Supported software packages

This section provides information about the release packages associated with Cisco Catalyst IE3x00, IE3400 Heavy Duty, and ESS3300 Series Switches.

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 platform configuration.
- Use the **show version** privileged EXEC command to display the software version running on the switch. The model name displayed at the end of the output reflects the factory configuration and does not change after software license upgrades.
- Use the **dir filesystem:** privileged EXEC command to view the names and versions of software images stored in flash memory.

Software images for Cisco IOS XE 26.1.x

This table provides the filename for the IOS XE 26.1.x software image for Cisco Catalyst IE3x00, IE3100 Rugged, IE3100 Heavy Duty, IE3400 Heavy Duty, and ESS3300 Series Switches.

Table 7. Software packages in Cisco IOS XE Release 26.1.x

Release	Image Type	Platform	File Name
Cisco IOS XE 26.1.2	Universal	IE3x00 (IE3200, IE3300, IE3400, and IE3400H)	ie3x00-universalk9.26.01.02.SPA.bin
		ESS3300	ess3x00-universalk9.26.01.02.SPA.bin
		IE3100 and IE3105	ie31xx-universalk9.26.01.02.SPA.bin
Cisco IOS XE 26.1.1	Universal	IE3x00 (IE3200, IE3300, IE3400, and IE3400H)	ie3x00-universalk9.26.01.01.SPA.bin
		ESS3300	ess3x00-universalk9.26.01.01.SPA.bin
		IE3100 and IE3105	ie31xx-universalk9.26.01.01.SPA.bin

Automatic boot loader upgrade

When you upgrade from the existing release on your switch to a later or newer 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.

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For subsequent Cisco IOS XE releases, if there is a new boot loader 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
If you boot Cisco IOS XE the first time	Boot loader may be upgraded to version "8.1.2" for IE3x00 and ESS3300. `Checking Bootloader upgrade... … Bootloader upgrade successful`

Software installation options

To install and activate the specified file, and to commit changes to be persistent across reloads, enter this command: **install add file filename [activate commit]**

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.

This table lists the options for the install command for the Cisco Catalyst IE3x00, IE3400 Heavy Duty, and ESS3300 Series Switches.

Table 8. Summary of software installation commands for install mode

Option	Description
activate[auto-abort-timer]	Activates the file and reloads the device. The auto-abort-timer keyword automatically rolls back image activation.
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.
commit	Commit the changes to the load path.
remove	Remove installed packages.

Related resources

Table 9. Additional references for Cisco Catalyst IE3x00 and IE3100 Rugged, IE3100 Heavy Duty, IE3400 Heavy Duty, and ESS3300 Series Switches

Document	Description
Cisco IOS XE	Provides information about Cisco IOS XE.
Cisco Catalyst IE3200 Rugged Series Switches	Provides information about Cisco Catalyst IE3200 Rugged Series Switches.
Cisco Catalyst IE3300 Rugged Series Switches	Provides information about Cisco Catalyst IE3300 Rugged Series Switches.
Cisco Catalyst IE3400 Rugged Series Switches	Provides information about Cisco Catalyst IE3400 Rugged Series Switches.

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Document	Description
Cisco Catalyst IE3400H Heavy Duty Series Switches	Provides information about Cisco Catalyst IE3400H Heavy Duty Series Switches.
Cisco Catalyst ESS3300 Series Switches	Provides information about Cisco Catalyst ESS3300 Series Switches.
Cisco Validated Designs	Provides information about Cisco Validated Designs.
Cisco MIB Locator	Provides tools for locating and downloading MIBs.
Cisco Profile Manager	Provides timely and relevant information from Cisco.
Cisco Services	Provides services that help you deploy, manage, optimize, and secure Cisco technologies to achieve your business outcomes.
Cisco Support	You can submit a service request here.
Cisco DevNet	Enables you to discover and browse secure, validated, enterprise-class applications, products, solutions, and services.
Cisco Press	Provides general networking, training, and certification titles.
Cisco Warranty Finder	Provides warranty information for a specific product or product family.
Cisco Support Community	You can ask and answer questions, share suggestions, and collaborate with your peers.
Cisco Feature Navigator	You can browse Cisco products and find relevant features. It also allows you to compare platforms, determine common features between products, and identify unique product features. The CFN also has a tab that provides a MIB Locator
Cisco TAC	Provides most up-to-date, detailed troubleshooting information. 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.
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