Release Notes for Cisco UCS E-Series Servers and the Cisco UCS E-Series Network Compute Engine, Release 3.2.3

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This document provides new features, system requirements, compatibility information, and open and resolved caveats for the Cisco UCS E-Series Server and the Cisco UCS E-Series Network Compute Engine (NCE) software release 3.2.3. Use this document in conjunction with the documents in the Related Documentation, on page 9.

Note Documentation is sometimes updated after original publication; therefore, for updated content, review the documentation on Cisco.com.

Overview

The Cisco UCS E-Series Servers (E-Series Servers) and the Cisco UCS E-Series Network Compute Engine (NCE) are a family of size-, weight-, and power-efficient blade servers that are housed within the Generation 2 Cisco Integrated Services Routers (Cisco ISR G2) and the Cisco ISR 4000 series. These servers provide a general-purpose compute platform for branch-office applications deployed either as bare-metal on operating systems, such as Microsoft Windows or Linux, or as virtual machines on hypervisors, such as VMware vSphere Hypervisor, Microsoft Hyper-V, or Citrix XenServer.

The E-Series Servers are purpose-built with powerful Intel Xeon processors for general-purpose compute. They come in the following form factors: single-wide and double-wide. The single-wide E-Series Server fits into one server module (SM) slot, and the double-wide E-Series Server fits into two SM slots.

The NCEs are price-to-power optimized modules that are built to host Cisco network applications and other lightweight general-purpose applications. They come in three form factors: SM, EHWIC, and NIM. The SM E-Series NCE fits into one SM slot, the NIM E-Series NCE fits into one NIM slot, and the EHWIC E-Series NCE fits into two EHWIC slots.

Note EHWIC E-Series NCE can be installed in the Cisco ISR G2 only.

- NIM E-Series NCE can be installed in the Cisco ISR 4000 series only.
- The Cisco ISR 4331 has one SM slot. The Cisco ISR 4321 and the Cisco ISR 4431 have no SM slots.
- Citrix XenServer is supported on the E-Series Servers only.

> • Cisco UCS-E160S-M3/K9, UCS-E1120D-M3/K9, and UCS-E180D-M3/K9 servers are supported on the Cisco ISR 4000 series only.

System Requirements

Hardware Requirements

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> **Note** E-Series Servers and the SM E-Series NCE can be installed in the Cisco ISR G2 and the Cisco ISR 4000 series.

- The EHWIC E-Series NCEs are not supported from CIMC release 3.2.x.
- The NIM E-Series NCE can be installed in the Cisco ISR 4000 series only.

The following M1 E-Series Servers are supported:

- UCS-E140S-M1—Single-wide E-Series Server, 4-cores CPU, 1.0-GHz clock speed
- UCS-E140D-M1—Double-wide E-Series Server, 4-cores CPU, 2.0-GHz clock speed
- UCS-E160D-M1—Double-wide E-Series Server, 6-cores CPU, 1.8-GHz clock speed
- UCS-E140DP-M1—Double-wide E-Series Server, 4-cores CPU, with PCIe, 2.0-GHz clock speed
- UCS-E160DP-M1—Double-wide E-Series Server, 6-cores CPU, with PCIe, 1.8-GHz clock speed

The following M2 E-Series Servers and SM E-Series NCE are supported:

- UCS-EN120S-M2—SM E-Series NCE, 2-cores CPU, 2.0-GHz clock speed
- UCS-E140S-M2—Single-wide E-Series Server, 4-cores CPU, 1.8-GHz clock speed
- UCS-E160D-M2—Double-wide E-Series Server, 6-cores CPU, 2.0-GHz clock speed
- UCS-E180D-M2—Double-wide E-Series Server, 8-cores CPU, 1.8-GHz clock speed

The following M3 E-Series Servers are supported:

- UCS-E160S-M3—Single-wide E-Series Server, 6-cores CPU, 1.9 -GHz clock speed

- UCS-E180D-M3—Double-wide E-Series Server, 8-cores CPU, 2.0 -GHz clock speed

- UCS-E1120D-M3—Double-wide E-Series Server, 12-cores CPU, 1.5 -GHz clock speed

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> **Note** The M1, M2, and M3 E-Series Servers naming terminology indicates different generations of Intel processors within the respective servers.

The following NIM E-Series NCE is supported:

- UCS-EN140N-M2—NIM E-Series NCE, 4-cores CPU, 1.7-GHz clock speed

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> **Note** For details about the M1, M2, and M3 E-Series Servers and the EHWIC E-Series NCE hardware, see the "Hardware Requirements" section in the *Hardware Installation Guide for Cisco UCS E-Series Servers and the Cisco UCS E-Series Network Compute Engine* .

Software Requirements

E-Series Servers require three major software systems:

CIMC Firmware

Cisco Integrated Management Controller (CIMC) is a management module, which is built into the motherboard. A dedicated ARM-based processor, separate from the main server CPU, runs the CIMC firmware. The system ships with a running version of the CIMC firmware. You can update the CIMC firmware, but no initial installation is needed.

CIMC is the management service for the E-Series Servers. CIMC runs within the server. You can use CIMC to access, configure, administer, and monitor the server.

BIOS Firmware

BIOS initializes the hardware in the system, discovers bootable devices, and boots them in the provided sequence. It boots the operating system and configures the hardware for the operating system to use. BIOS manageability features allow you to interact with the hardware and use it. In addition, BIOS provides options to configure the system, manage firmware, and create BIOS error reports. The system ships with a running version of the BIOS firmware. You can update the BIOS firmware, but no initial installation is needed.

Note Table below lists the minimum BIOS versions required to use with CIMC 3.2.x and later releases.

Table 1: Minimum BIOS Versions Required

Server Name	BIOS Version
UCS-EN120S-M2 UCS-E140S M2	1.5.0.6
UCS-E160D-M2 UCS-E180D-M2	2.5.0.4
UCS-E160S-M3	2.x
UCS-E180D-M3 UCS-E1120D-M3	2.x
UCS-EN140N-M2	1.5.0.4
UCS-EN120E	1.5.0.4

Minimum System Requirements

The management client must meet or exceed the following minimum system requirements:

- Sun JRE 1.6.0_14 or later
- Microsoft Internet Explorer 6.0 or higher, Mozilla Firefox 3.0 or higher
- Microsoft Windows 7, Microsoft Windows XP, Microsoft Windows Vista,

• Apple Mac OS X v10.6, Red Hat Enterprise Linux 5.0 or higher operating systems

E-Series Server Options

E-Series Servers are available in the following options:

• Option 1—E-Series Server without preinstalled operating system or hypervisor
• Option 2—E-Series Server with preinstalled Microsoft Windows Server

At the time of purchase, you can choose the appropriate RAID option that you want enabled on the E-Series Server.

Note If you purchase this option, the Microsoft Windows Server license is preactivated.

• Option 3—E-Series Server with preinstalled VMware vSphere Hypervisor TM

At the time of purchase, you can choose the appropriate RAID option that you want enabled on the E-Series Server.

Cisco ISR G2, E-Series Server, NCE, and Cisco IOS Software Release Compatibility

Table 2: Cisco ISR G2, E-Series Server, NCE, and Cisco IOS Release Compatibility

Cisco ISR G2	Cisco IOS Software Release for Single-Wide E-Series Servers and the SM E-Series NCE	Cisco IOS Software Release for Double-Wide E-Series Servers	Cisco IOS Software Release for the EHWIC E-Series NCE
1921	—	—	15.4(3)M and later releases
1941	—	—	15.4(3)M and later releases
2911	15.2(4)M and later releases		15.4(3)M and later releases
2921	15.2(4)M and later releases	15.2(4)M and later releases	15.4(3)M and later releases
2951	15.2(4)M and later releases	15.2(4)M and later releases	15.4(3)M and later releases
3925	15.2(4)M and later releases	15.2(4)M and later releases	15.4(3)M and later releases
3925e	15.2(4)M and later releases	15.2(4)M and later releases	15.4(3)M and later releases
3945	15.2(4)M and later releases	15.2(4)M and later releases	15.4(3)M and later releases
3945e	15.2(4)M and later releases	15.2(4)M and later releases	15.4(3)M and later releases

Cisco ISR 4000 Series, E-Series Server, NCE, CIMC, and Cisco IOS Software Release Compatibility

Table 3: Cisco ISR 4000 Series, E-Series Server, NCE, CIMC, and Cisco IOS Release Compatibility

Cisco ISR	Cisco IOS Software Release for Single-Wide E-Series Servers and the SM E-Series NCE	Cisco IOS Software Release for Double-Wide E-Series Servers	Cisco IOS Software Release for the NIM E-Series NCE	CIMC
4400 Series	XE 3.12S	XE 3.12S	—	2.2.2 and later releases
	XE 3.13S and later releases	XE 3.13S and later releases	—	2.3.1 and later releases
	—	—	XE 3.15S and later releases	3.0.1 and later releases
	XE 16.2.1	XE 16.2.1	XE 16.2.1	3.0.1 and later releases
4300 Series	XE 3.13S and later releases	XE 3.13S and later releases	—	2.3.1 and later releases
	—	—	XE 3.15S and later releases	3.0.1 and later releases
	XE 16.2.1	XE 16.2.1	XE 16.2.1	3.0.1 and later releases

Important Information About the VMware FL-SRE-V-HOST License

If you are using a VMware FL-SRE-V-HOST license (equivalent to VMware vSphere Hypervisor™ 5.X), make sure that you are using 32 GB or less of RAM. If more than 32 GB of RAM is used, you will get an error message, and you will not be able to apply the license. If you want to use 48 GB RAM, upgrade your license to FL-SRE-V-HOSTVC.

Important Information About the Host Upgrade Utility

Since CIMC release 3.0.1, a separate Host Upgrade Utility User Guide is not supported. All the information that was present in the Host Upgrade Utility User Guide is merged into the *Getting Started Guide for Cisco UCS E-Series Servers and the Cisco UCS E-Series Network Compute Engine.*

Open and Resolved Bugs

The open and resolved bugs are accessible through the Cisco Bug Search Tool . This web-based tool provides you with access to the Cisco bug tracking system, which maintains information about bugs and vulnerabilities in this product and other Cisco hardware and software products.

Note You must have a Cisco.com account to log in and access the Cisco Bug Search Tool. If you do not have one, you can register for an account .

For more information about the Cisco Bug Search Tool, see the Bug Search Tool Help & FAQ .

Open Bugs in Release 3.2.3

Access the Bug Search tool at https://www.cisco.com/cisco/psn/bssprt/bss. Enter the bug identifier in the **Search For** field, and then press **Enter**.

The table below lists the open bugs in release 3.2.3.

Table 4: Open Bugs in Release 3.2.3

Bug ID	Summary	Additional Information
CSCvh59312	Aquila-HDD: RAID option not listing in boot order.	**Symptoms:** Aquila-HDD: RAID option not listing in boot order. **Conditions:** Tried to update CIMC to latest, reset CIMC and BIOS to default but it is still not working. By deleting the virtual drive, got an error. **Workarounds:**None
CSCve71905	Dedicated port shows 'no link detected' when CIMC access mode is changed to shared lom.	**Symptoms:** Dedicated port shows 'no link detected' when CIMC access mode is changed to shared lom. **Conditions:** Initially, set CIMC access port to shared lom ge2, and plug cable to ge2 port and dedicate port. After the cable links are up, show link state. The dedicated port shows no link detected. **Workarounds:** Change access port mode from shared lom to dedicate.

Bug ID	Summary	Additional Information
CSCvf12798	Image download status shows 'none'.	**Symptoms:** Image download status shows 'none'. **Conditions:** Log in and check the image download status. **Workarounds:** Step 1: Log in to the GUI and access the 'host image mapping' page. Step 2: Click 'Add image'. Enter file path and start download. Step 3: After step 2, refresh the page to see the download status.
CSCvg49445	Sensor page shows only 2 HDDs while 4 HDDs are installed.	**Symptoms:** Sensor page shows only 2 HDDs while 4 HDDs are installed. **Conditions:** Install 4 HDDs to module and power on server. In the storage controller page, it shows 4 HDDs, but in the sensors it shows 2 HDDs. Same issue in both CLI and GUI. **Workarounds:** None
CSCvh49056	LSI to be added to HUU for Aquila.	**Symptoms:** LSI to be added to HUU for Aquila: **Conditions:** LSI to be added to HUU for Aquila. **Workarounds:** None

Bug ID	Summary	Additional Information
CSCvg20164	Unable to download the HUU image from HTTP server configured on ISR Router.	**Symptoms:** Unable to download the HUU image from HTTP server configured on ISR Router **Conditions:** Download the HUU image files via HTTP server which is configured on ISR 4K router. **Workarounds:** None

Resolved and Closed Bugs

The table below lists the bugs that are resolved or closed in release 3.2.3.

Table 5: Resolved or Closed Caveats

Bug ID	Summary
CSCvg36727	Error while selecting file using Browse option of Add Mapping menu.
CSCvg40020	Missing file/directory/device/address/command messages are seen during CIMC/BMC boot-up.
CSCve83447	Status error when update BIOS in server powered on state.
CSCvg31797	CPLD and Hardware Version are missing in 3.2.X GUI.
CSCvg46203	Cannot configure bios boot order if the platform has no RAID card installed.
CSCvg46089	Storage: Health status changes by refresh in Operation status.
CSCvg50889	Allow XML API to trigger firmware update of files on the host image mapping partition.
CSCvg49039	Tachi serviceability II features - show nim info and status.
CSCvg62488	SUDI fails and PnP discovery is stuck at device-auth -- PnP ZTD blocked.
CSCvg69025	ENCS5400: HDD slot boot option ambiguity.
CSCvg57005	IPMI output reports drive fault when no fault present.
CSCvh03218	HTTP to HTTPS redirect issue.
CSCvg45768	Out of memory problem happened with CIMC fp1_21.bin.
CSCvh06253	Add F2W MCU driver.
CSCve14117	CIMC Firmware update progress not automatic refresh in GUI.
CSCvg54042	The Home icon on top of left button does not work on Chrome.

Bug ID	Summary
CSCvg10285	Reva NIM unable to be recognized after ISRv reload.
CSCvg62521	Missing button/link to enable secured drive.
CSCvg62549	ENCS CIMC: Script error from "disable-controller-security".
CSCvg96485	CIMC web login fail after password changed.
CSCvh06941	NIM module EN LED failed under CIMC3.2.
CSCvh13398	Host-image-mapping: allow username and password for downloading http.
CSCvg30137	Aquila: Cannot get all HDD status with redfish session.
CSCvg19290	Show BIOS configurations showed empty in GUI.

Related Documentation

For links to the following Cisco UCS E-Series Servers and the NCE documents, see Documentation Guide for Cisco UCS E-Series Servers and the Cisco UCS E-Series Network Compute Engine :

- *Getting Started Guide for Cisco UCS E-Series Servers and the Cisco UCS E-Series Network Compute Engine*
- *Hardware Installation Guide for Cisco UCS E-Series Servers and the Cisco UCS E-Series Network Compute Engine*
- *Cisco Network Modules, Server Modules, and Interface Cards Regulatory Compliance and Safety Information*
- *GUI Configuration Guide for Cisco UCS E-Series Servers and the Cisco UCS E-Series Network Compute Engine Integrated Management Controller*
- *CLI Configuration Guide for Cisco UCS E-Series Servers and the Cisco UCS E-Series Network Compute Engine Integrated Management Controller*
- *CIMC XML API Programmer's Guide for Cisco UCS E-Series Servers and the Cisco UCS E-Series Network Compute Engine*
- *Troubleshooting Guide for Cisco UCS E-Series Servers and the Cisco UCS E-Series Network Compute Engine*
- *Open Source Used in Cisco UCS E-Series Servers and the Cisco UCS E-Series Network Compute Engine, Release 2.x*
- Third-Party Tools Plug-In Documentation:

  - *Release Notes for Cisco IMC PowerTool, Release 1.x*
  - *Cisco UCS PowerTool, Release 1.1.1 User Guide*
  - *Cisco IMC Remote Action Service 1.1.1 User Guide for HP Operations Orchestration 9.00*
  - *Cisco IMC Smart Plugin 1.0 Installation Guide for HP Operations Manager—Windows*
  - *Cisco IMC Smart Plugin 1.0 Operations Guide for HP Operations Manager—Windows*
  - *Release Notes for Cisco IMC Management Pack, Release 1.1 for Microsoft System Center 2012, 2012 SP1 and 2012 R2, Operations Manager*
  - *Cisco IMC Management Pack User Guide, Release 1.1 for Microsoft System Center 2012, 2012 SP1 and 2012 R2, Operations Manager*

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation* , which also lists all new and revised Cisco technical documentation, at:

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

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