Release Notes for Cisco UCS Rack Server Software, Release 4.3(3)

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Cisco UCS C-Series Servers

Cisco UCS C-Series Servers deliver unified computing in an industry-standard form factor to reduce total cost of ownership and increase agility. Each product addresses varying workload challenges through a balance of processing, memory, I/O, and internal storage resources.

About the Release Notes

This document describes the new features, system requirements, open caveats and known behaviors for C-Series software release 4.3(2) including Cisco Integrated Management Controller (Cisco IMC) software and any related BIOS, firmware, or drivers. Use this document in conjunction with the documents listed in the Related Documentation, on page 22 section.

Note We sometimes update the documentation after original publication. Therefore, you should also refer to the documentation on Cisco.com for any updates.

Revision History

Revision	Date	Description
B0	April 16, 2024	Created release notes for 4.3.3.240041 for the following servers: • Cisco UCS S3260 M5 servers This patch contains fixes and firmware updates for Cisco UCS S3260 M5 server.
A1	March 21, 2024	Added new section **Security Fixes** for the release 4.3.3.240022

Revision	Date	Description
A0	February 15, 2024	Created release notes for 4.3.3.240022 for the following servers: • Cisco UCS C220 M7 and C240 M7 servers • Cisco UCS C220 M6, C240 M6, C225 M6 and C245 M6 servers and S3260 M5 servers The firmware files in Cisco Host Upgrade Utility for individual releases are available at: Cisco UCS C-Series Integrated Management Controller Firmware Files, Release 4.3

Cisco IMC Release Number and .ISO Image Names

Beginning with the release 4.3, Cisco is updating the release number naming convention to align with the .ISO images.

Example: **4.3.1.YYXXXX**

- **4.3**—Represents the main release.
- **.1**—Represents the first release.

  For the current 4.3 main release, **.1** represents the first release number.

  For subsequent maintenance releases, this number will represent the related maintenance release number.
- **YY**—Represents the year of release.

  For the current 4.3 main release, **23** is derived from the year 2023.
- **XXXX**—The final 4 digits represent the increasing sequence of build numbers every year.

  For the first 4.3 main release, the number is **0097**.

Supported Platforms and Release Compatibility Matrix

Supported Platforms in this Release

The following servers are supported in this release:

- Cisco UCS C220 M7
- Cisco UCS C240 M7
- Cisco UCS C220 M6
- Cisco UCS C240 M6

- Cisco UCS C245 M6
- Cisco UCS C225 M6
- Cisco UCS S3260 M5

For information about these servers, see Overview of Servers.

Cisco IMC and Cisco UCS Manager Release Compatibility Matrix

Cisco UCS C-Series Rack-Mount Servers are managed by built-in standalone software —Cisco IMC. However, when a Rack-Mount Server is integrated with Cisco UCS Manager, UCSM end-user interface is used to manage the server.

The following table lists the supported platforms, Cisco IMC releases, and Cisco UCS Manager releases for Rack-Mount Servers:

Table 1: Cisco IMC and UCS Manager Software Releases for Rack Mount Servers for Cisco IMC 4.3(3) Release

Cisco IMC Release	Cisco UCS Manager Release	Rack Mount Servers
4.3.3.240041	NA	• Cisco UCS S3260 M5 servers
4.3.3.240022	4.3(3a)	• Cisco UCS C220 M7 and C240 M7 servers • Cisco UCS C220 M6, C240 M6, C225 M6 and C245 M6 and S3260 M5 servers

Table 2: Cisco IMC and UCS Manager Software Releases for Rack Mount Servers for Cisco IMC 4.3(2) Release

Cisco IMC Release	Cisco UCS Manager Release	Rack Mount Servers
4.3.2.240009	NA	• Cisco UCS C220 M6, C240 M6, C225 M6 and C245 M6 servers • Cisco UCS C220 M5, C240 M5, C480 M5, C125 M5 and S3260 M5 servers
4.3.2.240002	4.3(2)	• Cisco UCS C220 M7 and C240 M7 servers • Cisco UCS C220 M6, C240 M6, C225 M6 and C245 M6 servers • Cisco UCS C220 M5, C240 M5, C480 M5, C125 M5 and S3260 M5 servers

Cisco IMC Release	Cisco UCS Manager Release	Rack Mount Servers
4.3.2.230270	4.3(2)	• Cisco UCS C220 M7 and C240 M7 servers • Cisco UCS C220 M6, C240 M6, C225 M6 and C245 M6 servers • Cisco UCS C220 M5, C240 M5, C480 M5, C125 M5 and S3260 M5 servers
4.3.2.230207	4.3(2)	• Cisco UCS C220 M7 and C240 M7 servers • Cisco UCS C220 M6, C240 M6, C225 M6 and C245 M6 servers • Cisco UCS C220 M5, C240 M5, C480 M5, C125 M5 and S3260 M5 servers

Table 3: Cisco IMC and UCS Manager Software Releases for Rack Mount Servers for Cisco IMC 4.3(1) Release

Cisco IMC Release	Cisco UCS Manager Release	Rack Mount Servers
4.3.1.230138	No Support	Cisco UCS C220 M7 and C240 M7 servers
4.3.1.230124	No Support	Cisco UCS C220 M7 and C240 M7 servers
4.3.1.230097	No Support	Cisco UCS C220 M7 and C240 M7 servers

Table 4: Cisco IMC and UCS Manager Software Releases for Rack Mount Servers for Cisco IMC 4.2(3) Release

Cisco IMC Release	Cisco UCS Manager Release	Rack Mount Servers
4.2(3k)	NA	Cisco UCS S3260 M5 servers
4.2(3j)	4.2(3j)	Cisco UCS C220 M6, C225 M6, C240 M6, and C245 M6 servers Cisco UCS C220 M5, C240 M5, C240 SD M5, C480 M5, C480 ML M5, S3260 M4, S3260 M5, and C125 M5 servers

Cisco IMC Release	Cisco UCS Manager Release	Rack Mount Servers
4.2(3i)	4.2(3i)	Cisco UCS C220 M6, C225 M6, C240 M6, and C245 M6 servers Cisco UCS C220 M5, C240 M5, C240 SD M5, C480 M5, C480 ML M5, S3260 M4, S3260 M5, and C125 M5 servers
4.2(3g)	4.2(3g)	Cisco UCS C220 M6, C225 M6, C240 M6, and C245 M6 servers Cisco UCS C220 M5, C240 M5, C240 SD M5, C480 M5, C480 ML M5, S3260 M4, S3260 M5, and C125 M5 servers
4.2(3e)	4.2(3e)	Cisco UCS C220 M6, C225 M6, C240 M6, and C245 M6 servers Cisco UCS C220 M5, C240 M5, C240 SD M5, C480 M5, C480 ML M5, S3260 M4, S3260 M5, and C125 M5 servers
4.2(3d)	4.2(3d)	Cisco UCS C220 M6, C225 M6, C240 M6, and C245 M6 servers Cisco UCS C220 M5, C240 M5, C240 SD M5, C480 M5, C480 ML M5, S3260 M4, S3260 M5, and C125 M5 servers
4.2(3b)	4.2(3b)	Cisco UCS C220 M6, C225 M6, C240 M6, and C245 M6 servers Cisco UCS C220 M5, C240 M5, C240 SD M5, C480 M5, C480 ML M5, S3260 M4, S3260 M5, and C125 M5 servers

Table 5: Cisco IMC and UCS Manager Software Releases for Rack Mount Servers for Cisco IMC 4.2(2) Release

Cisco IMC Release	Cisco UCS Manager Release	Rack Mount Servers
4.2(2g)	4.2(2d)	Cisco UCS C220 M6, C225 M6, C240 M6, and C245 M6 servers Cisco UCS C220 M5, C240 M5, C240 SD M5, C480 M5, C480 ML M5, S3260 M4, S3260 M5, and C125 M5 servers

Cisco IMC Release	Cisco UCS Manager Release	Rack Mount Servers
4.2(2f)	4.2(2c)	Cisco UCS C220 M6, C225 M6, C240 M6, and C245 M6 servers Cisco UCS C220 M5, C240 M5, C240 SD M5, C480 M5, C480 ML M5, S3260 M4, S3260 M5, and C125 M5 servers
4.2(2a)	4.2(2a)	Cisco UCS C220 M6, C225 M6, C240 M6, and C245 M6 servers Cisco UCS C220 M5, C240 M5, C240 SD M5, C480 M5, C480 ML M5, S3260 M4, S3260 M5, and C125 M5 servers

Table 6: Cisco IMC and UCS Manager Software Releases for Rack Mount Servers for Cisco IMC 4.2(1) Release

Cisco IMC Release	Cisco UCS Manager Release	Rack Mount Servers
4.2(1j)	4.2(1n)	Cisco UCS C220 M6, C225 M6, C240 M6, and C245 M6 servers
4.2(1i)	4.2(1m)	Cisco UCS C220 M6, C225 M6, C240 M6, and C245 M6 servers
4.2(1g)	No Support	Cisco UCS C225 M6 and C245 M6 servers
4.2(1f)	4.2(1k)	Cisco UCS C220 M6, C225 M6, C240 M6, and C245 M6 servers
4.2(1e)	4.2(1i)	Cisco UCS C220 M6, C225 M6, C240 M6, and C245 M6 servers
4.2(1c)	No Support	Cisco UCS C225 M6 and C245 M6 servers
4.2(1b)	4.2(1f)	Cisco UCS C220 M6 and C240 M6 servers
4.2(1a)	4.2(1d)	Cisco UCS C220 M6, C240 M6, and C245 M6 servers

Table 7: Cisco IMC and UCS Manager Software Releases for Rack Mount Servers for Cisco IMC 4.1(3) Release

Cisco IMC Release	Cisco UCS Manager Release	Rack Mount Servers
4.1(3n)	NA	Cisco UCS C220 M5, C240 M5, C480 M5, S3260 M5 and S3260 M4 servers

Cisco IMC Release	Cisco UCS Manager Release	Rack Mount Servers
4.1(3m)	4.1(3m)	Cisco UCS C220 M5, C240 M5, C480 M5, S3260 M5 and S3260 M4 servers
4.1(3l)	4.1(3k)	Cisco UCS C480 M5, C220 M5, C240 M5 servers
4.1(3i)	4.1(3j)	Cisco UCS C220 M5, C240 M5, C480 M5, S3260 M4, S3260 M5, C125 M5 servers
4.1(3h)	4.1(3i)	Cisco UCS C220 M5, C240 M5, C480 M5, S3260 M4, S3260 M5, C125 M5 servers
4.1(3g)	No Support	Cisco UCS S3260 M4 and S3260 M5 servers
4.1(3f)	4.1(3h)	Cisco UCS C220 M5, C240 M5, C480 M5, S3260 M4, S3260 M4, S3260 M5, and C125 M5 servers
4.1(3d)	4.1(3e)	Cisco UCS C220 M5, C240 SD M5, C240 M5, C480 M5, C480 ML M5, S3260 M4, S3260 M5, and C125 M5 servers
4.1(3c)	4.1(3d)	Cisco UCS C220 M5, C240 SD M5, C240 M5, C480 M5, C480 ML M5, S3260 M4, S3260 M5 and C125 M5 servers
4.1(3b)	4.1(3a)	Cisco UCS C220 M5, C240 SD M5, C240 M5, C480 M5, C480 ML M5, S3260 M4, S3260 M5 and C125 M5 servers

Table 8: Cisco IMC and UCS Manager Software Releases for Rack Mount Servers for Cisco IMC 4.1(2) Release

Cisco IMC Release	Cisco UCS Manager Release	Rack Mount Servers
4.1(2m)	No Support	Cisco UCS C220 M4, C240 M4 and C460 M4 servers.
4.1(2l)	No Support	Cisco UCS C220 M4 and C240 M4 servers.
4.1(2k)	No Support	Cisco UCS C220 M4, C240 M4, and C460 M4 servers

Cisco IMC Release	Cisco UCS Manager Release	Rack Mount Servers
4.1(2j)	No Support	Cisco UCS C220 M4, C240 M4, and C460 M4 servers
4.1(2h)	No Support	Cisco UCS C220 M4, C240 M4, and C460 M4 servers
4.1(2g)	No Support	Cisco UCS C220 M4, C240 M4, and C460 M4 servers
4.1(2f)	4.1(2c)	Cisco UCS C220 M5, C240 SD M5, C240 M5, C480 M5, C480 ML M5, S3260 M5, C220 M4, C240 M4, C460 M4, and S3260 M4 servers
4.1(2e)	No Support	Cisco UCS C125 M5 servers
4.1(2d)	No Support	Cisco UCS C240 M5 and C240 SD M5 servers
4.1(2b)	4.1(2b)	Cisco UCS C220 M5, C240 SD M5, C240 M5, C480 M5, C480 ML M5, S3260 M5, C125 M5, C220 M4, C240 M4, C460 M4, and S3260 M4 servers
4.1(2a)	4.1(2a)	Cisco UCS C220 M5, C240 SD M5, C240 M5, C480 M5, C480 ML M5, S3260 M5, C125 M5, C220 M4, C240 M4, C460 M4, and S3260 M4 servers

Table 9: Cisco IMC and UCS Manager Software Releases for Rack Mount Servers for Cisco IMC 4.1(1) Release

Cisco IMC Release	Cisco UCS Manager Release	Rack Mount Servers
4.1(1h)	4.1(1e)	Cisco UCS C220 M5, C240 M5, C480 M5, C480 ML M5, S3260 M5, C125 M5, C220 M4, C240 M4, C460 M4, and S3260 M4 servers
4.1(1g)	4.1(1d)	Cisco UCS C220 M5, C240 M5, C480 M5, C480 ML M5, S3260 M5, C125 M5, C220 M4, C240 M4, C460 M4, and S3260 M4 servers
4.1(1f)	4.1(1c)	Cisco UCS C220 M5, C240 M5, C480 M5, C480 ML M5, S3260 M5, C125 M5, C220 M4, C240 M4, C460 M4, and S3260 M4 servers

Cisco IMC Release	Cisco UCS Manager Release	Rack Mount Servers
4.1(1d)	4.1(1b)	Cisco UCS C220 M5, C240 M5, C480 M5, and C480 ML M5 servers
4.1(1c)	4.1(1a)	Cisco UCS C220 M5, C240 M5, C480 M5, C480 ML M5, S3260 M5, C125 M5, C220 M4, C240 M4, C460 M4, and S3260 M4 servers

Operating System and Browser Requirements

For detailed information about supported Operating System, see the interactive UCS Hardware and Software Compatibility matrix.

Cisco recommends the following browsers for Cisco UCS Rack Server Software, Release 4.3(3):

Recommended Browser	Minimum Recommended Browser Version	Minimum Recommended Operating System
Google Chrome	Version 114.0.5735.198 (Official Build) (x86_64)	Mac OS 13.4.1 (22F82)
	Version 112.0.5615.138 (Official Build) (64-bit)	Microsoft Windows 2019
	Version 114.0.5735.199 (Official Build) (64-bit)	Microsoft Windows Server 2019
	Version 115.0.5790.110 (Official Build) (64-bit)	Microsoft Windows 11 Enterprise
	Version 109.0.5414.149 (Official Build) (64-bit)	Microsoft Windows 2019
	Version 115.0.5790.110 (Official Build) (64-bit)	Microsoft Windows 11 Enterprise
Safari	Version 16.6 (18615.3.12.11.2)	Mac OS 13.5 (22G74)
	Version 16.5.2 (18615.2.9.11.10)	Mac OS 13.4.1 (22F82)
Mozilla Firefox	115.0.3 (64-bit)	Mac OS 13.5 (22G74)
	116.0 (64-bit)	Microsoft Windows 11 Enterprise

Note If the management client is launched using an unsupported browser, check the help information from the `For best results use supported browsers` option available in the login window for the supported browser versions.

Transport Layer Security (TLS) version 1.2.

Default Ports

Following is a list of server ports and their default port numbers:

Table 10: Server Ports

Port Name	Port Number
LDAP Port 1	389
LDAP Port 2	389
LDAP Port 3	389
LDAP Port 4	3268
LDAP Port 5	3268
LDAP Port 6	3268
SSH Port	22
HTTP Port	80
HTTPS Port	443
SMTP Port	25
KVM Port	2068
Intersight Management Port	8889
Intersight Cloud Port	8888
SOL SSH Port	2400
SNMP Port	161
SNMP Traps	162
External Syslog	514

Upgrade and Downgrade Guidelines

To get a complete overview of all the possible upgrade paths in Cisco IMC, see Cisco UCS Rack Server Upgrade Support Matrix.

Downgrade Limitation for Release 4.3.3.240022:

In the release 4.3.3.240022, you cannot downgrade the Cisco UCS M7 servers with 5th Gen Intel® Xeon® processors.

When you try to downgrade Cisco IMC, the following error message is displayed on CLI, GUI, Redfish API and XML API user interfaces:

Error message during BMC downgrade with different interfaces like CLI/WEBUI/Redfish/XML =

“Update aborted. INCOMPATIBLE_IMAGE”

When you try to downgrade BIOS, the following error message is displayed on CLI, GUI, Redfish API and XML API user interfaces:

CPU ID mismatch between uploaded image and the platform.

Note You can downgrade Cisco UCS M7 servers with 4th Generation Intel® Xeon® Scalable Processors.

Infrastructure Upgrade and Downgrade to Release 4.3(2):

- Cisco UCS M4 servers are not supported by 4.3.2.230207 and later releases.
- You must perform firmware update after adding any new hardware component to the system.
- If you are planning to install Cisco UCS VIC 15237 or 15427 in a server, then upgrade the server to 4.3.2.230270 or later versions and then insert the adapter into the server.

  If you insert Cisco UCS VIC 15237 or 15427 into the server that is running earlier versions than 4.3.2.230270, then upgrade the server to 4.3.2.230270 or later versions and power cycle the server to recognize the adapter.
- If you are planning to install Cisco UCS VIC 15235 or 15425 in a server, then upgrade the server to 4.3.2.230207 or later versions and then insert the adapter into the server.

  If you insert Cisco UCS VIC 15235 or 15425 into the server that is running earlier versions than 4.3.2.230207, then upgrade the server to 4.3.2.230207 or later versions and power cycle the server to recognize the adapter.

Support for Cisco UCS M7 Servers

Cisco UCS M7 servers are supported from the release 4.3.1.230097 onwards.

The following releases are for Cisco UCS M7 servers only:

- 4.3.1.230138
- 4.3.1.230124
- 4.3.1.230097

Upgrade Paths to Release 4.3.3

The section provides information on the upgrade paths to release 4.3.3.

Refer to the table for upgrade paths for various Cisco UCS C-series IMC versions.

Table 11: Upgrade Paths to Release 4.3(3x)

Upgrade From Release	Upgrade To Release	Recommended Upgrade Path
Following Cisco UCS servers from the release 4.3.1.230097 • Cisco UCS C220 M7 • Cisco UCS C240 M7	• 4.3.3.240022 • 4.3.2.240002 • 4.3.2.230270 • 4.3.2.230207 • 4.3.1.230138 • 4.3.1.230124	Follow below upgrade path: • You can use Interactive HUU or Non-Interactive HUU (NIHUU) script to update the server. • While updating the firmware using the NIHUU tool, use the Python scripts that are released with version 4.3.2.230207. • Use OpenSSL 1.0.1e-fips on the client side (where the NIHUU python scripts are running). • Download HUU iso from here. • Download NIHUU script from here.
Following Cisco UCS servers from the release 4.2(3b) • Cisco UCS C220 M6 • Cisco UCS C240 M6 • Cisco UCS C245 M6 • Cisco UCS C225 M6 • Cisco UCS C220 M5 • Cisco UCS C240 M5 • Cisco UCS C240 SD M5 • Cisco UCS C480 M5 • Cisco UCS C480 M5 ML • Cisco UCS S3260 M5 • Cisco UCS C125 M5	• 4.3.3.240022 • 4.3.2.230270 • 4.3.2.230207 • 4.2(3g) • 4.2(3e) • 4.2(3d) **Note** Among the Cisco UCS M5 servers, the following releases support upgrading only Cisco UCS S3260 M5 servers: 4.3.3.240022	Follow below upgrade path: • You can use Interactive HUU or Non-Interactive HUU (NIHUU) script to update the server. • While updating the firmware using the NIHUU tool, use the Python scripts that are released with version 4.3.2.230207. • Use OpenSSL 1.0.1e-fips on the client side (where the NIHUU python scripts are running). • Download HUU iso from here. • Download NIHUU script from here.

Upgrade From Release	Upgrade To Release	Recommended Upgrade Path
Following Cisco UCS servers from the release 4.2(2) • Cisco UCS C220 M5 • Cisco UCS C240 M5 • Cisco UCS C240 SD M5 • Cisco UCS C480 M5 • Cisco UCS C480 M5 ML • Cisco UCS S3260 M5 • Cisco UCS C125 M5	• 4.3.2.240002 • 4.3.2.230270 • 4.3.2.230207 • 4.2(3g) • 4.2(3e) • 4.2(3d) • 4.2(3b) **Note** Among the Cisco UCS M5 servers, the following releases support upgrading only Cisco UCS S3260 M5 servers: 4.3.3.240022	Follow below upgrade path: • You can use Interactive HUU or Non-Interactive HUU (NIHUU) script to update the server. • While updating the firmware using the NIHUU tool, use the Python scripts that are released with version 4.2.2. • Use OpenSSL 1.0.1e-fips on the client side (where the NIHUU python scripts are running). • Download HUU iso from here. • Download NIHUU script from here.
All Cisco UCS M6 Servers from 4.2(1). For the list of supported platforms, see Table 12: Upgrade Paths to Release 4.2(1a), on page 16.	• 4.3.3.240022 • 4.3.2.240002 • 4.3.2.230270 • 4.3.2.230207	Follow below upgrade path: • You can use Interactive HUU or Non-Interactive HUU (NIHUU) script to update the server. • While updating the firmware using the NIHUU tool, use the Python scripts that are released with version 4.2(1). • Use OpenSSL 1.0.1e-fips on the client side (where the NIHUU python scripts are running). • Download HUU iso from here. • Download NIHUU script from here.

Upgrade From Release	Upgrade To Release	Recommended Upgrade Path
Following Cisco UCS Servers from 4.1(3): • Cisco UCS C220 M5 • Cisco UCS C240 M5 • Cisco UCS C240 SD M5 • Cisco UCS C480 M5 • Cisco UCS C480 M5 ML • Cisco UCS S3260 M5 • Cisco UCS C125 M5	• 4.3.2.240002 • 4.3.2.230270 • 4.3.2.230207 • 4.2(3g) • 4.2(3e) • 4.2(3d) • 4.2(3b) **Note** Among the Cisco UCS M5 servers, the following releases support upgrading only Cisco UCS S3260 M5 servers: 4.3.3.240022	Follow below upgrade path: • You can use Interactive HUU or NIHUU script to update the server. • While updating the firmware using the NIHUU tool, use the Python scripts that are released with version 4.1(3). • Use OpenSSL 1.0.1e-fips on the client side (where the NIHUU python scripts are running). • Download HUU iso from here. • Download NIHUU script from here.
Following Cisco UCS Servers from 4.1(2): • Cisco UCS C220 M5 • Cisco UCS C240 M5 • Cisco UCS C240 SD M5 • Cisco UCS C480 M5 • Cisco UCS C480 M5 ML • Cisco UCS S3260 M5 • Cisco UCS C125 M5 • Cisco UCS S3260 M4	• 4.3.2.240002 • 4.3.2.230270 • 4.3.2.230207 • 4.2(3g) • 4.2(3e) • 4.2(3d) • 4.2(3b) **Note** Among the Cisco UCS M5 servers, the following releases support upgrading only Cisco UCS S3260 M5 servers: 4.3.3.240022	Follow below upgrade path: • You can use Interactive HUU or Non-Interactive HUU (NIHUU) script to update the server. • While updating the firmware using the NIHUU tool, use the Python scripts that are released with version 4.1(2). • Use OpenSSL 1.0.1e-fips on the client side (where the NIHUU python scripts are running). • Download HUU iso from here. • Download NIHUU script from here.

Upgrade From Release	Upgrade To Release	Recommended Upgrade Path
Following Cisco UCS Servers from 4.1(1): • Cisco UCS C220 M5 • Cisco UCS C240 M5 • Cisco UCS C480 M5 • Cisco UCS C480 M5 ML • Cisco UCS S3260 M5 • Cisco UCS C125 M5	• 4.3.2.240002 • 4.3.2.230270 • 4.3.2.230207 • 4.2(3g) • 4.2(3e) • 4.2(3d) • 4.2(3b) **Note** Among the Cisco UCS M5 servers, the following releases support upgrading only Cisco UCS S3260 M5 servers: 4.3.3.240022	Follow below upgrade path: • You can use Interactive HUU or Non-Interactive HUU (NIHUU) script to update the server. • While updating the firmware using the NIHUU tool, use the Python scripts that are released with version 4.1(1). • Use OpenSSL 1.0.1e-fips on the client side (where the NIHUU python scripts are running). • Download HUU iso from here. • Download NIHUU script from here.
Following Cisco UCS Servers from 4.0(4): • Cisco UCS C220 M5 • Cisco UCS C240 M5 • Cisco UCS C480 M5 • Cisco UCS C480 M5 ML	• 4.3.2.240002 • 4.3.2.230270 • 4.3.2.230207 • 4.2(3g) • 4.2(3e) • 4.2(3d) • 4.2(3b) **Note** Among the Cisco UCS M5 servers, the following releases support upgrading only Cisco UCS S3260 M5 servers: 4.3.3.240022	Follow below upgrade path: • You can use Interactive HUU or Non-Interactive HUU (NIHUU) script to update the server. • While updating the firmware using the NIHUU tool, use the Python scripts that are released with version 4.0(4). • Use OpenSSL 1.0.1e-fips on the client side (where the NIHUU python scripts are running). • Download HUU iso from here. • Download NIHUU script from here.

Table 12: Upgrade Paths to Release 4.2(1a)

Upgrade From Release	Upgrade To Release	Recommended Upgrade Path
Cisco UCS C220 M6 Cisco UCS C240 M6 Cisco UCS C225 M6 Cisco UCS C245 M6	• 4.3.3.240022 • 4.3.2.240002 • 4.3.2.230270 • 4.3.2.230207 • 4.2(3g) • 4.2(3e) • 4.2(3d) • 4.2(3b)	Follow below upgrade path: • You can use Interactive HUU or Non-Interactive HUU (NIHUU) script to update the server. • While updating the firmware using the NIHUU tool, use the Python scripts that are released with version 4.2(1). • Use OpenSSL 1.0.1e-fips on the client side (where the NIHUU python scripts are running). • Download HUU iso from here. • Download NIHUU script from here.

Firmware Files

Firmware Files

The C-Series software release 4.3.3.240022 includes the following software files:

CCO Software Type	File name(s)	Comment
Unified Computing System (UCS) Server Firmware	For release specific ISO versions, see Cisco UCS C-Series Integrated Management Controller Firmware Files, Release 4.3	Host Upgrade Utility
Unified Computing System (UCS) Drivers	ucs-cxxx-drivers.4.3.3.240022.iso	Drivers
Unified Computing System (UCS) Utilities	ucs-cxxx-utils-efi.4.3.3.240022.iso ucs-cxxx-utils-linux.4.3.3.240022.iso ucs-cxxx-utils-vmware.4.3.3.240022.iso ucs-cxxx-utils-windows.4.3.3.240022.iso	Utilities

Note Always upgrade the BIOS, the Cisco IMC and CMC from the HUU ISO. Do not upgrade individual components (only BIOS or only Cisco IMC), since this could lead to unexpected behavior. If you choose to upgrade BIOS, and the Cisco IMC individually and not from the HUU ISO, make sure to upgrade both Cisco IMC, and BIOS to the same container release. If the BIOS and the Cisco IMC versions are from different container releases, it could result in unexpected behavior. Cisco recommends that you use the Update All option from the Host Upgrade Utility to update the firmware versions of Cisco IMC, BIOS, and all other server components (VIC, RAID Controllers, PCI devices, and LOM) together.

Host Upgrade Utility

The Cisco Host Upgrade Utility (HUU) is a tool that upgrades the Cisco UCS C-Series firmware.

The image file for the firmware is embedded in the ISO. The utility displays a menu that allows you to choose which firmware components to upgrade. For more information on this utility, see http://www.cisco.com/en/US/products/ps10493/products_user_guide_list.html.

For details of firmware files in Cisco Host Upgrade Utility for individual releases, see Cisco UCS C-Series Integrated Management Controller Firmware Files, Release 4.3.

Updating the Firmware

Use the Host Upgrade Utility to upgrade the C-Series firmware. Host Upgrade Utility can upgrade the following software components:

- BIOS
- Cisco IMC
- CMC
- Cisco VIC Adapters
- Broadcom Adapters
- LAN on Motherboard
- PCIe adapter firmware
- HDD firmware
- SAS Expander firmware
- DCPMM Memory
- PCI Gen5 retimer

All firmware should be upgraded together to ensure proper operation of your server.

Note We recommend that you use the select all and **Update** or **Update & Activate All** option from the Host Upgrade Utility to update the firmware versions of Cisco IMC, BIOS and all other server components (VIC, RAID Controllers, PCI devices, and LOM) together. Click **Exit** once you deploy the firmware.

For more information on how to upgrade the firmware using the utility, see:

http://www.cisco.com/c/en/us/support/servers-unified-computing/ucs-c-series-rack-servers/products-user-guide-list.html

SNMP

The supported MIB definition for this release and later releases can be found at the following link:

https://cisco.github.io/cisco-mibs/

Software Utilities

The following standard utilities are available:

- Host Update Utility (HUU)
- Server Configuration Utility (SCU)
- Server Diagnostic Utility (SDU)

The utilities features are as follows:

- Availability of HUU, SCU on the USB as bootable images. The USB also contains driver ISO, and can be accessed from the host operating system.

New Hardware in Release 4.3.3

New Hardware in Release 4.3.3.240022

Support for 5th Gen Intel® Xeon® Scalable Processors

Support for the following 5th Gen Intel® Xeon® Scalable Processors with Cisco UCS 220 M7 and UCS C240 M7 servers:

- Intel® Xeon® Platinum 8592V Processor
- Intel® Xeon® Platinum 8562Y+ Processor
- Intel® Xeon® Platinum 8568Y+ Processor
- Intel® Xeon® Platinum 8592+ Processor
- Intel® Xeon® Platinum 8558P Processor
- Intel® Xeon® Platinum 8580 Processor
- Intel® Xeon® Platinum 8558 Processor
- Intel® Xeon® Gold 6542Y Processor
- Intel® Xeon® Gold 6544Y Processor
- Intel® Xeon® Gold 6548Y+ Processor
- Intel® Xeon® Gold 6526Y Processor
- Intel® Xeon® Gold 6530 Processor
- Intel® Xeon® Gold 6534 Processor
- Intel® Xeon® Gold 6554S Processor
- Intel® Xeon® Gold 6538Y+ Processor
- Intel® Xeon® Gold 5515+ Processor
- Intel® Xeon® Gold 5520+ Processor
- Intel® Xeon® Gold 6548N Processor

- Intel® Xeon® Silver 4514Y Processor
- Intel® Xeon® Silver 4516Y+ Processor

Supported GPUs

Support for the following Intel GPU cards with the CPUs listed in the above section:

- Intel® Data Center GPU Flex 170, FH-3/4L, 150W PCIe with Cisco UCS C240 M7 servers
- Intel® Data Center GPU Flex 140, HHHL, 75W PCIe with Cisco UCS C220 M7 and C240 M7 servers

Support for 5600 DIMMs

Support for the following 5600 DIMMs:

- Hynix 16GB 1Rx8 PC5-5600B-RD0-1010-XT (HMCG78AGBRA190N BB 307)
- Hynix 32GB 1Rx4 PC5-5600B-RC0-1010-XT (HMCG84AGBRA190N BB 310)
- Hynix 64GB 2Rx4 PC5-5600B-RA0-1010-XT (HMCG94AGBRA177N BB 327)
- Hynix 96GB 96GB 2Rx4 PC5-5600B-RA0-1010-XT (HMCGM4MGBRB)
- Hynix 128GB 2S2Rx4 PC5-5600B-RA0-1010-XT (HMCT04AGERA)
- Samsung 16GB 1Rx8 PC5-5600B-RD0-1010-XT (KR M321R2GA3PB0-CWMKH 2323)
- Samsung 32GB 1Rx4 PC5-5600B-RC0-1010-XT (M321R4GA0PB0-CWM)
- Samsung 64GB 2Rx4 PC5-5600B-RA0-1010-XT (KR M321R8GA0PB0-CWMCH 2326)
- Micron 96GB 2RX4 PC5-5600B-RA0-1010-XT (MTC40F204WS1RC56BB1 317)

Open Caveats

Open Caveats in Release 4.3.3.240022

The following defects are open in Release 4.3.3.240022:

Defect ID	Symptom	Workaround	First Affected Release
CSCwi85031	In a Cisco UCS C240 M7 server equipped with 2 Intel Flex 170 GPUs placed on two Riser slots and dual socket server with CPU SKUs (with built-in single QAT, DLB, DSA, IAA accelerator devices) and running on Cisco UCS HUU 4.3.3 with RHEL 9.2 and Ubuntu 22.04.3, kernel panic and boot hang is observed. By default, BIOS uses a lower MMIO base and size. This causes an issue with the GPUs during PCI enumeration as Intel Flex 170 GPUs require higher range memory with more granularity size.	Perform the following steps: **1.** Login to the Cisco IMC Web UI as an admin user. **2.** In the **Navigation** pane, click the **Compute** menu. **3.** In the work pane, click the **BIOS** tab. **4.** In the Actions area, click **Enter BIOS Setup**. **5.** Click **OK** at the prompt. Enables **Enter BIOS setup**. On restart, the server enters the BIOS setup. **6.** Select **BIOS Setup** > **Advanced** > **Socket Configuration** > **Uncore Configuration** > **Uncore General Configuration** . **7.** Enter the value **1024G** for the field **MMIO High Granularity Size**. **8.** Disable the **LIMIT CPU PA to 46 Bits** option. **9.** Enter the value **56T**for the field **MMIO High Base** **10.** Press F10 to save your settings and reboot the server.	4.3.3.240022

Defect ID	Symptom	Workaround	First Affected Release
CSCwi85033	In a Cisco UCS C240 M7 server equipped with 2 Nvidia H100 GPUs placed on two Riser slots and dual socket server with CPU SKUs (with built-in single QAT, DLB, DSA, IAA accelerator devices) and running on Cisco UCS HUU 4.3.3 with RHEL 9.2 and Ubuntu 22.04.3, kernel panic and boot hang is observed. By default, BIOS uses a lower MMIO base and size. This causes an issue with the GPUs during PCI enumeration as Nvidia H100 GPUs require higher range memory with more granularity size.	Perform the following steps: **1.** Login to the Cisco IMC Web UI as an admin user. **2.** In the **Navigation** pane, click the **Compute** menu. **3.** In the work pane, click the **BIOS** tab. **4.** In the Actions area, click **Enter BIOS Setup**. **5.** Click **OK** at the prompt. Enables **Enter BIOS setup**. On restart, the server enters the BIOS setup. **6.** Select **BIOS Setup** > **Advanced** > **Socket Configuration** > **Uncore Configuration** > **Uncore General Configuration** . **7.** Enter the value **1024G** for **MMIO High Granularity Size**. **8.** Press F10 to save your settings and reboot the server.	4.3.3.240022

Security Fixes

Security Fixes in Release 4.3.3.240022

CSCwi47887

Cisco UCS M7 servers are affected by the vulnerabilities identified by the following Common Vulnerability and Exposures (CVE) IDs:

- CVE-2023-22655—Protection mechanism failure in some 3rd and 4th Generation Intel(R) Xeon(R) Processors when using Intel(R) SGX or Intel(R) TDX may allow a privileged user to potentially enable escalation of privilege via local access.
- CVE-2023-32666—On-chip debug and test interface with improper access control in some 4th Generation Intel(R) Xeon(R) Processors when using Intel(R) SGX or Intel(R) TDX may allow a privileged user to potentially enable escalation of privilege via local access.
- CVE-2023-39368—Protection mechanism failure of bus lock regulator for some Intel(R) Processors may allow an unauthenticated user to potentially enable denial of service via network access.
- CVE-2023-38575—Non-transparent sharing of return predictor targets between contexts in some Intel(R) Processors may allow an authorized user to potentially enable information disclosure via local access.

Related Documentation

For configuration information for this release, refer to the following:

- Cisco UCS C-Series Servers Integrated Management Controller CLI Configuration Guide
- Cisco UCS C-Series Servers Integrated Management Controller GUI Configuration Guide
- Cisco UCS Rack-Mount Servers Cisco IMC API Programmer's Guide

For information about installation of the C-Series servers, refer to the following:

- Cisco UCS C-Series Rack Servers Install and Upgrade Guides

The following related documentation is available for the Cisco Unified Computing System:

- Regulatory Compliance and Safety Information for Cisco UCS
- For information about supported firmware versions and supported UCS Manager versions for the rack servers that are integrated with the UCS Manager for management, refer to Release Bundle Contents for Cisco UCS Software.

Refer to the release notes for Cisco UCS Manager software and the *Cisco UCS C Series Server Integration with Cisco UCS Manager Guide* at the following locations:

- Cisco UCS Manager Release Notes
- Cisco UCS C Series Server Integration with Cisco UCS Manager Guides