Cisco Baseboard Management Controller Release Notes for Cisco UCS C885A M8 Rack Server, Release 1.0

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Revision History

Table 1:

Revision	Date	Description
C0	April 28, 2025	Created release notes for 1.0.1.250002 for the following servers: • Cisco UCS C885A M8 Rack Server This patch is a crucial update designed to prepare your software environment for future improvements and enhancements. It does not include new features but is essential for ensuring compatibility with upcoming changes.
B1	March 21, 2025	Added Open Caveats in Release 1.0.0.250003, on page 9.
B0	January 16, 2025	Created release notes for 1.0.0.250003 for the following servers: • Cisco UCS C885A M8 Rack Server
A0	December 09, 2024	Created release notes for 1.0.0.240001 for the following servers: • Cisco UCS C885A M8 Rack Server

Overview of the Cisco UCS C885A M8 Rack Server

The Cisco UCS C885A M8 Rack Server is a dense-GPU server designed to deliver massive, scalable accelerated compute capabilities to address the most demanding AI workloads, including deep learning/Large Language Model (LLM) training, model fine-tuning, large model inferencing, and Retrieval-Augmented Generation (RAG).

To deliver massive accelerated compute performance in a single server, the server offers a choice of eight GPUs of the following types:

- NVIDIA® H100 SXM or NVIDIA® H200 Server PCI Express Module (SXM) GPUs. SXM is a socket-based GPU interconnect method used by NVIDIA GPUs.

- AMD MI300X OCP Accelerator Model (OAM) GPUs. OAM is an Open Compute GPU interconnect standard that avoids GPU vendor lock in.

For north-south traffic, the server also supports one NVIDIA Bluefield-3 B3220 DPU to scale AI model training across a cluster of dense-GPU servers. Up to eight NVIDIA ConnectX-7 or Bluefield-3 B3140H SuperNIC are supported for east-west traffic between GPUs.

Introduction

The Cisco Baseboard Management Controller (Cisco BMC) web GUI is HTML5 based and added security with SSL (HTTPS). It helps you manage the Cisco UCS C885A M8 Rack Server using the following options:

Hardware and Component Management

The Inventory feature enables administrators to record hardware devices and components on each server, such as central processing units (CPUs), memory modules, hard drives, network cards, and more.

Status and Checks

The Inventory feature also provides status and checks for hardware and software devices. This information can include device health status, temperature, voltage, connection status, and more.

Supported Platforms

The following servers are supported in 1.0.0.240001 and later releases:

- Cisco UCS C885A M8 Rack Server

Operating System and Browser Requirements

Cisco recommends the following browsers:

Table 2: Operating System and Browser Requirements

Recommended Browser	Version Tested	Minimum Recommended Operating System
Mozilla Firefox	132.0.2 (AArch64)	macOS 15.1 (24B83)
	132.0 (64-bit)	Ubuntu 20.04.3 LTS
	132.0.2 (64-bit)	Microsoft Windows 11 Enterprise
Apple Safari	Version 18.1 (20619.2.8.11.10)	macOS 15.1 (24B83)
Google Chrome	131.0.6778.71 (64-bit)	Microsoft Windows 11 Enterprise
Microsoft Edge	131.0.2903.51 (64-bit)	Microsoft Windows 11 Enterprise

Default Ports

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

Port Name	Port Number
HTTP	80
HTTPS	443
SSH	22
IPMI	623

Upgrade and Downgrade Guidelines

Upgrade and Downgrade Guidelines for Release 1.0.1.250002

Once you upgrade to release 1.0.1.250002, you cannot downgrade to any earlier release.

Firmware Files

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Note Always upgrade all the components BIOS, BMC, and FPGA. Do not upgrade individual components (only BIOS or only BMC), since this could lead to unexpected behavior. If the BIOS and the BMC versions are from different container releases, it could result in unexpected behavior.

Firmware Files in Release 1.0.1.250002

The 1.0.1.250002 software release includes the following software files:

Table 3: 1.0.1.250002 Cisco Firmware Bundle

CCO Software Type	File Name
Firmware for OOB (BMC, BIOS, and FPGA) and In Band (ConnectX7, Bluefield, and OCP) components.	ucs-c885a-m8-1.0.1.250002.tar
Upgrade script and Readme file	ucs-c885a-m8-upgrade-script-v1.1.tar.gz

Table 4: GPU Minimum Firmware Version

GPU	Minimum Firmware Version
H100 / H200 Nvidia GPU	2.7.20
AMD MI 300 GPU	01.24.13.09

Note The GPU firmware listed is not included in the Cisco firmware bundle. Cisco recommends that you check directly with AMD and Nvidia for the latest firmware updates. The versions provided here are the minimum supported versions that are compatible with the server with the current release.

Firmware Files in Release 1.0.0.250003

The 1.0.0.250003 software release includes the following software files:

Table 5: 1.0.0.250003 Cisco Firmware Bundle

CCO Software Type	File Name
Firmware for OOB (BMC, BIOS, and FPGA) and In Band (ConnectX7, Bluefield, and OCP) components.	ucs-c885a-m8-1.0.0.250003.tar.gz
Upgrade script and Readme file	ucs-c885a-m8-upgrade-script-v1.0.tar.gz

Table 6: GPU Minimum Firmware Version

GPU	Minimum Firmware Version
H100 / H200 Nvidia GPU	2.7.20
AMD MI 300 GPU	01.24.13.09

Note The GPU firmware listed is not included in the Cisco firmware bundle. Cisco recommends that you check directly with AMD and Nvidia for the latest firmware updates. The versions provided here are the minimum supported versions that are compatible with the server with the current release.

Firmware Files in Release 1.0.0.240001

The 1.0.0.240001 software release includes the following software files:

Table 7: 1.0.0.240001 Cisco Firmware Bundle

CCO Software Type	File Name
Firmware for OOB (BMC, BIOS, and FPGA) and In Band (ConnectX7, Bluefield, and OCP) components.	ucs-c885a-m8-1.0.0.240001.tar.gz
Upgrade script and Readme file	ucs-c885a-m8-upgrade-script-v1.0.tar.gz

Table 8: GPU Minimum Firmware Version

GPU	Minimum Firmware Version
H100 / H200 Nvidia GPU	2.7.20
AMD MI 300 GPU	01.24.13.09

Note The GPU firmware listed is not included in the Cisco firmware bundle. Cisco recommends that you check directly with AMD and Nvidia for the latest firmware updates. The versions provided here are the minimum supported versions that are compatible with the server with the current release.

Bundle Information for Release 1.0.1.250002

The ucs-c885a-m8-1.0.1.250002.tar bundle contains the following:

Category	Subcategory	File Name
Host	bluefield-3	• bf-fwbundle-2.8.0-98_24.07-prod.bfb • doca-host_2.8.0-204000-24.07-ubuntu2204_amd64.deb • README
	connectx7	• fw-ConnectX7-rel-28_42_1000-30-100363-01_Ax-UEFI-14.35.15-FlexBoot-3.7.500.signed.bin • README
	x710-ocp	• X710-OCP_9.50.zip • README

Category	Subcategory	File Name
OOB	bios	AMD_EPYC_4th_Gen • C885A-M8_BIOS_v1.0.5.bin AMD_EPYC_5th_Gen • C885A-M8_BIOS_v1.1.7.bin
	bmc	AMD • C885A-M8_BMC_v1.1.10.bin NVIDIA • C885A-M8_BMC_v1.0.10.bin
	fpga	dcscm • C885A-M8_SCM_FPGA_V0204.rpd hib • C885A-M8_HIB_FPGA_0224_cfm0_auto.rpd hpm • C885A-M8_HPM_FPGA_V0204.rpd

Bundle Information for Releaes 1.0.0.250003

The **ucs-c885a-m8-1.0.0.250003.tar.gz** bundle contains the following:

Category	Subcategory	File Name
Host	bluefield-3	• bf-fwbundle-2.8.0-98_24.07-prod.bfb • doca-host_2.8.0-204000-24.07-ubuntu2204_amd64.deb • README
	connectx7	• fw-connectx7-rel-28_42_1000-30-100363-01_ax-uefi -14.35.15-flexboot-3.7.500.signed.bin • README
	x710-ocp	• README • x710-ocp_9.50.zip

Category	Subcategory	File Name
OOB	bios	AMD_EPYC_4th_Gen • C885A-M8_BIOS_v1.0.5.bin AMD_EPYC_5th_Gen • C885A-M8_BIOS_v1.1.7.bin
	bmc	AMD • C885A-M8_BMC_v1.1.5.bin NVIDIA • C885A-M8_BMC_v1.0.5.bin
	fpga	dcscm • C885A-M8_SCM_FPGA_V0204.rpd hib • C885A-M8_HIB_FPGA_0224_cfm0_auto.rpd hpm • C885A-M8_HPM_FPGA_V0204.rpd

Bundle Information for Release 1.0.0.240001

The **ucs-c885a-m8-1.0.0.240001.tar.gz** bundle contains the following:

Category	Subcategory	File Name
Host	bluefield-3	• bf-fwbundle-2.8.0-98_24.07-prod.bfb • doca-host_2.8.0-204000-24.07-ubuntu2204_amd64.deb • README
	connectx7	• fw-connectx7-rel-28_42_1000-30-100363-01_ax-uefi -14.35.15-flexboot-3.7.500.signed.bin • README
	x710-ocp	• README • x710-ocp_9.50.zip

Category	Subcategory	File Name
OOB	bios	AMD_EPYC_4th_Gen • C885A-M8_BIOS_v1.0.4.bin AMD_EPYC_5th_Gen • C885A-M8_BIOS_v1.1.4.bin
	bmc	AMD • C885A-M8_BMC_v1.1.4.bin NVIDIA • C885A-M8_BMC_v1.0.4.bin
	fpga	dcscm • C885A-M8_SCM_FPGA_V0204.rpd hib • C885A-M8_HIB_FPGA_0224_cfm0_auto.rpd hpm • C885A-M8_HPM_FPGA_V0204.rpd

Resolved Caveats

Resolved Caveats in Release 1.0.1.250002

There are no resolved caveats in release 1.0.1.250002.

Resolved Caveats in Release 1.0.0.250003

The following defects are resolved in Release 1.0.0.250003:

Defect ID	Symptom	First Affected Release	Resolved in Release
CSCwn01691	Certain BMC configurations, such as LDAP and Power Cap, revert to their default disabled state following a BMC update. This issue has been resolved for LDAP and Power Cap; however, the Network Time Protocol (NTP) configuration continues to experience this issue.	1.0.0.240001	1.0.0.250003

Defect ID	Symptom	First Affected Release	Resolved in Release
CSCwn34288	GPU firmware updates for both AMD and Nvidia models may fail across all servers when attempted through the Cisco IMC Web UI or Redfish API. This issue is observed during firmware updates. This issue is resolved.	1.0.0.240001	1.0.0.250003

Open Caveats

Open Caveats in Release 1.0.1.250002

There are no open caveats in release 1.0.1.250002.

Open Caveats in Release 1.0.0.250003

The following defects are open in Release 1.0.0.250003:

Defect ID	Symptom	Workaround	First Affected Release
CSCwn89077	Due to a configuration issue, some servers may experience limited network accessibility restricted to the same subnet. To resolve this, a MAC address configuration update is required. This affects environments with static configuration settings.	To recover the server, configure the MAC address as 00-00-00-00-00-00.	1.0.0.250003
CSCwn86753	A standby power issue affects the OCP adapter on the eth1 interface, causing BMC network connectivity to go down when the host is powered off. This impacts systems using the shared-NIC concept for the eth1 interface.	There is no known workaround.	1.0.0.250003

Open Caveats in Release 1.0.0.240001

The following defects are open in Release 1.0.0.240001:

Defect ID	Symptom	Workaround	First Affected Release
CSCwn01691	Certain BMC configurations such as NTP, LDAP, and Power Cap revert to their default disabled state following a BMC update.	There is no known workaround.	1.0.0.240001
CSCwn34288	GPU firmware updates for both AMD and Nvidia models may fail across all servers when attempted through the Cisco IMC Web UI or Redfish API. This issue is observed during firmware updates.	Update GPU firmware using the host-based utility provided by the GPU manufacturer.	1.0.0.240001
CSCwo76759	Cisco BMC is unable to dynamically re-learn the network gateway MAC address when the default gateway MAC is not set or has changed. As a result, while it can communicate within the same subnet, it cannot respond to traffic from a different subnet unless the default gateway MAC is manually configured. This may cause the Cisco BMC to become unreachable outside the subnet when switching between static environments with different subnets.	Using any host in same subnet set the default getway MAC address: **$ipmitool -H <BMC IP> -U root -P <password> -I lanplus lan set 1 defgw macaddr <MAC address of the getway>**	1.0.0.240001

Known Behaviors and Limitations

Known Behaviors and Limitations in Release 1.0.1.250002

There are no known behaviors and limitations in release 1.0.1.250002.

Known Behaviors and Limitations in Release 1.0.0.250003

There are no known behaviors and limitations in release 1.0.0.250003.

Known Behaviors and Limitations in Release 1.0.0.240001

The following caveats are known limitations in release 1.0.0.240001:

Defect ID	Symptom	Workaround	First Affected Release
CSCwn16450	Cisco UCS C885A M8 Rack ServerH100 variant, updating the HIB FPGA firmware may sometimes result in the host failing to power on, due to a power unit failure. This issue has been observed with certain firmware updates.	Perform an AC power cycle to ensure the activation of the FPGA and GPU firmware updates.	1.0.0.240001

Related Documentation

For more information, you can access related documents from the following links:

- Cisco UCS C885A M8 Rack Server Installation and Service Guide.
- Cisco Baseboard Management Controller Configuration Guide.