Release Notes for Cisco UCS C-Series Software, Release 2.0(9)

First Published Date: January 20, 2016
Revised Date: October 20, 2019

Contents

This document includes the following sections:

Introduction

This document describes the new features, system requirements, open caveats and known behaviors for C- series software release 2.0(9) including Cisco Integrated Management Controller software and any related BIOS, firmware, or drivers. Use this document in conjunction with the documents listed in the "Related Documentation" section on page 92.

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www.cisco.com

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

Table 1 shows the online change history for this document.

Revision History

Table 1 Online History Change

Revision	Date	Description
A0	January 20, 2016	Created release notes for Release 2.0(9).
B0	January 27, 2016	The following changes were made in the release 2.0(9d): • C3160 and C3260 M3 servers are supported in this release. • Updated the Supported Features section. • Updated the Open and Resolved Caveats sections.
C0	February 8, 2016	The following changes were made in the release 2.0(9e): • C220 M4, C240 M4, and C460 M4 servers are supported in this release. • Updated the Resolved Caveats and Open Caveats sections. • Updated the HUU versions to 2.0(9e). The firmware files in Cisco Host Upgrade Utility for individual releases are available at: Cisco UCS C-Series Integrated Management Controller Firmware Files, Release 2.0 • Updated the Host Upgrade Utility section with support for the Emulex OCe14102B-UX dual port SFP+ CNA adapter.
D0	March 31, 2016	The following changes were made in the release 2.0(9f): • C22, C24, C220 M3, C240 M3, C220 M4, C240 M4, and C460 M4 servers are supported in this release. • Updated the Resolved Caveats, Open Caveats and Supported Features sections. • Updated the HUU versions to 2.0(9f). The firmware files in Cisco Host Upgrade Utility for individual releases are available at: Cisco UCS C-Series Integrated Management Controller Firmware Files, Release 2.0

Table 1 Online History Change (continued)

Revision	Date	Description
E0	April 25, 2016	The following changes were made in the release 2.0(9i): • C3160 and C3260 M3 servers are supported in this release. • The issues that were resolved in release 2.0(9f) were resolved in this release for the C3160 and C3260 M3 servers. See section Release 2.0(9f), page 28 in the resolved caveats section. • Updated the Open Caveats section. • Updated the HUU versions to 2.0(9i). The firmware files in Cisco Host Upgrade Utility for individual releases are available at: Cisco UCS C-Series Integrated Management Controller Firmware Files, Release 2.0
F0	May 20, 2016	The following changes were made in the release 2.0(9l): • Updated the Resolved Caveats section. • Updated the HUU versions of the servers to 2.0(9l). The firmware files in Cisco Host Upgrade Utility for individual releases are available at: Cisco UCS C-Series Integrated Management Controller Firmware Files, Release 2.0

Table 1 Online History Change (continued)

Revision	Date	Description
G0	October 10, 2016	The following changes were made in the release 2.0(9m): • Updated the VIC firmware to support Windows 2016 servers. • Updated the Resolved Caveats section. • Updated the HUU versions of the servers to 2.0(9m). The firmware files in Cisco Host Upgrade Utility for individual releases are available at: Cisco UCS C-Series Integrated Management Controller Firmware Files, Release 2.0
H0	April 06, 2018	The following changes were made in the release 2.0(9n): • Added the Security Fixes section. • Updated the HUU versions of the servers to 2.0(9n). The firmware files in Cisco Host Upgrade Utility for individual releases are available at: Cisco UCS C-Series Integrated Management Controller Firmware Files, Release 2.0
I0	August 01, 2018	The following changes were made in the release 2.0(9o): • Updated the Security Fixes section. • Updated the HUU versions of the servers to 2.0(9o). The firmware files in Cisco Host Upgrade Utility for individual releases are available at: Cisco UCS C-Series Integrated Management Controller Firmware Files, Release 2.0
J0	August 29, 2018	Updated the Security Fixes section for Release 2.0(9o).
K0	October 20, 2019	The following changes were made in the release 2.0(9p): • Updated the Security Fixes section • Updated the HUU versions of the servers to 2.0(9p). The firmware files in Cisco Host Upgrade Utility for individual releases are available at: Cisco UCS C-Series Integrated Management Controller Firmware Files, Release 2.0

System Requirements

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

- Sun JRE 1.8.0_ 45 to Sun JRE 1.8.0_ 60
- 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

Overview of the Server Models

This section includes the following sections:

Overview of Cisco UCS C3260 M3 Rack Servers

The Cisco UCS C3260 M3 is a modular, dense storage rack server with dual server nodes, optimized for large datasets used in environments such as big data, cloud, object storage, and content delivery.

The UCS C3260 M3 chassis is a modular architecture consisting of the following modules:

- **Base Chassis:** contains four power supplies, eight fans, and a rail kit.
- **Server Node:** one or two server nodes, each with two CPUs, 128, 256, or 512 GB of DIMM memory, and a RAID card in pass-through mode or a RAID card with a 1 GB or 4 GB cache.
- **System I/O Controller (SIOC):** one or two System I/O Controllers, each of which includes a 1300-series VIC.
- **Optional Drive Expansion Node:** choice of either 4 x 4 TB drives (total capacity: 16TB) or 4 x 6 TB drives (total capacity: 24 TB).
- Up to 56 top-accessible, hot-swappable 3.5-inch 6- or 4-TB 7200-rpm NL-SAS HDDs.
- **Solid-State Boot Drives:** up to two SSDs per server node.
- The enterprise-class UCS C3260 M3 server extends the capabilities of Cisco's Unified Computing System portfolio in a 4U form factor that delivers the best combination of performance, flexibility, and efficiency gains.

Differences Between Cisco UCS C3160 and C3260 M3 Systems

Table 1-2 lists the differences between Cisco UCS C3160 and Cisco UCS 3260 M3 systems.

Table 1-2 Differences Between Cisco UCS C3160 and Cisco UCS C3260 M3

System	Cisco IMC Firmware Minimum	Supported SIOC	Number of Server Nodes Supported	UCSM-Managed or Standalone	Label on Right-Front Handle	Rear-Panel SSD Drives Supported
C3160	2.0(3)	UCSC-C3160-SIOC[1] Intel i350 VIC 1227 VIC 1227-T VIC 1387	1	Standalone	C3160	2
C3260 M3	2.0(7)	UCSC-C3260 M3-SIOC[2] Integrated VIC 1300 Series chip	2 (two SIOCs required; one for each server)	Standalone	C3260 M3	4 (two server nodes required)

1. This SIOC and supported VIC cards are not forward-compatible with the Cisco UCS C3260 M3 system.
2. This SIOC is not backward-compatible with the Cisco UCS C3160 system.

For details on migration from C3160 to C3260 M3 servers see, Cisco UCS C3260 M3 Server Installation and Service Guide

Overview of Cisco UCS C3160 Rack Servers

The Cisco UCS C3160 Rack Server is a modular, high-density server ideal for service providers, enterprises, and industry-specific environments. The Cisco UCS C3160 addresses the need for highly scalable computing with high-capacity local storage. Designed for a new class of cloud-scale applications, it is simple to deploy and excellent for unstructured data repositories, media streaming, and content distribution.

Extending the capability of the Cisco UCS portfolio, the new Cisco UCS C3160 Rack Server is an advanced, modular rack server with extremely high storage density. Based on the Intel Xeon processor E5-2600 v2 series, it offers up to 360 TB of local storage in a compact 4-rack-unit (4RU) form factor.

Because all its hard-disk drives are individually hot-swappable, and with its built-in enterprise-class Redundant Array of Independent Disks (RAID) redundancy, the Cisco UCS C3160 helps you achieve the highest levels of data availability.

Unlike typical high-density rack servers that require extended depth racks, the Cisco UCS C3160 has no such requirement and can comfortably fit in a standard-depth rack, such as the Cisco UCS R42610.

The Cisco UCS C3160 uses a modular server architecture which, taking advantage of our blade technology expertise, allows you to upgrade the compute or network nodes in the system without requiring a data migration from one system to another. It delivers:

- Up to 60 large-form-factor (LFF) drives, plus two solid-state drive (SSD) boot drives
- Up to 256 MB memory
- Support for 12-Gbps serial-attached SCSI (SAS) drives
- A modular LAN-on-motherboard (mLOM) slot on the system I/O controller for installing next-generation Cisco virtual interface card (VIC) or third-party network interface card (NIC)
- High reliability, availability, and serviceability features with tool-less server nodes, system I/O controller, easy-to-use latching lid, and hot-swappable and hot-pluggable components

The Cisco UCS C3160 is deployed as a standalone server in both bare-metal or virtualized environments. Its modular architecture reduces TCO by allowing you to upgrade individual components over time and as use cases evolve, without having to replace the entire system.

Overview of Cisco UCS C220 M3 and C240 M3 Rack Servers

The Cisco UCS C220 M3 Rack Server is designed for performance and density over a wide range of business workloads, from web serving to distributed databases. The enterprise-class Cisco UCS C220 M3 server extends the capabilities of the Cisco UCS portfolio in a 1RU form factor with the addition of the Intel® Xeon® processor E5-2600 product family. In addition, the Cisco UCS C220 M3 server offers up to two Intel® Xeon® Processor E5-2600 product family, 16 DIMM slots, eight disk drives, and two 1 Gigabit Ethernet LAN-on-motherboard (LOM) ports.

The Cisco UCS C240 M3 Rack Server is designed for both performance and expandability over a wide range of storage-intensive infrastructure workloads, from big data to collaboration. The enterprise-class Cisco UCS C240 M3 server further extends the capabilities of the Cisco UCS portfolio in a 2RU form factor with the addition of the Intel® Xeon® processor E5-2600 product family. The Cisco UCS C240 M3 offers up to two Intel® Xeon® processor E5-2600 product family, 24 DIMM slots, 24 disk drives, and four 1 Gigabit Ethernet LOM ports.

The Cisco UCS C220 M3 and the Cisco UCS C240 M3 interfaces with Cisco UCS using the Cisco UCS Virtual Interface Card (VIC); 1225. The Cisco UCS VIC is a virtualization-optimized Fibre Channel over Ethernet (FCoE) PCI Express (PCIe) 2.0 x8 10-Gbps adapter designed for use with Cisco UCS C-Series servers. The VIC is a dual-port 10 Gigabit Ethernet PCIe adapter that can support up to 256 (1225) PCIe standards-compliant virtual interfaces, which can be dynamically configured so that both their interface types-network interface card (NIC) or host bus adapter (HBA) and identity (MAC address and worldwide name (WWN))-are established using just-in-time provisioning. In addition, the Cisco UCS VIC can support network interface virtualization and Cisco® Data Center Virtual Machine Fabric Extender (VM-FEX) technology.

Overview of Cisco UCS C22 M3 and C24 M3 Rack Servers

The Cisco UCS C22 M3 Rack Server is an entry-level UCS server designed for both performance and density over a wide range of business workloads, including enterprise web/file/print server and HPC. The enterprise-class Cisco UCS C22 M3 server extends the capabilities of the Cisco UCS portfolio in a 1RU form factor with the addition of the Intel Xeon E5-2400 product family. In addition, the Cisco UCS C22 M3 server offers up to two Intel® Xeon® Processor E5-2400 product family processors, 12 DIMM slots, 8 disk drives, and two 1 Gigabit Ethernet LAN-on-motherboard (LOM) ports.

You can order the server in two different versions, each with one of two different front panel and back plane configurations:

- Cisco UCS C22 M3, small form-factor (SFF) drives with 8-drive backplane

  Holds up to eight 2.5-inch hard drives or solid state drives
- Cisco UCS C22 M3, large form factor (LFF) drives, with 4-drive backplane)

  Holds up to four 3.5-inch hard drives

The Cisco UCS C24 M3 Rack Server is designed for both performance and expandability over a wide range of storage-intensive infrastructure workloads, from big data to collaboration. The enterprise-class Cisco UCS C24 M3 server further extends the capabilities of the Cisco UCS portfolio in a 2RU form factor with the addition of the Intel® Xeon® processor Intel Xeon E5-2400 product family. The Cisco UCS C24 M3 offers up to two Intel® Xeon® E5-2400 processors, 12 DIMM slots, 24 disk drives, and two 1 Gigabit Ethernet LAN-on-motherboard (LOM) ports.

You can order the server in three different versions, each with one of three different front panel/backplane configurations:

- Cisco UCS C24 - small form-factor (SFF) drives, with 24-drive backplane and expander

  Holds up to twenty-four 2.5-inch hard drives or solid state drives.
- Cisco UCS C24 - small form-factor (SFF) drives, with 16-drive backplane, and no expander

  Holds up to sixteen 2.5-inch hard drives or solid state drives and enables embedded RAID to be used in the server.
- Cisco UCS C24 - large form-factor (LFF) drives, with 12-drive backplane and expander

  Holds up to twelve 3.5-inch hard drives

The Cisco UCS C22 M3 and the Cisco UCS C24 M3 interfaces with Cisco UCS using the Cisco UCS Virtual Interface Card (VIC); 1225. The Cisco UCS VIC is a virtualization-optimized Fibre Channel over Ethernet (FCoE) PCI Express (PCIe) 2.0 x8 10-Gbps adapter designed for use with Cisco UCS C-Series servers. The VIC is a dual-port 10 Gigabit Ethernet PCIe adapter that can support up to 256 (1225) PCIe standards-compliant virtual interfaces, which can be dynamically configured so that both their interface types-network interface card (NIC) or host bus adapter (HBA) and identity (MAC address and worldwide name (WWN))-are established using just-in-time provisioning. In addition, the Cisco UCS VIC can support network interface virtualization and Cisco® Data Center Virtual Machine Fabric Extender (VM-FEX) technology.

Overview of Cisco UCS C460 M4 Rack Servers

The Cisco UCS® C460 M4 Rack Server provides the performance and reliability to run mission-critical applications and virtualized workloads that require intensive computation processing and very high memory capacity. Applications that are memory-bound (for example, large-scale virtualization, massive database applications, and server consolidation) will benefit from the increased performance and memory footprint of the Cisco UCS C460 M4.

The Cisco UCS C460 M4 is a four-rack-unit (4RU) rack server supporting the Intel® Xeon® E7-4800 v2/v3 and E7-8800 v2/v3 processor families. Product highlights include:

- Up to 6 terabytes (TB) of double-data-rate 3 (DDR3) memory in 96 DIMM slots
- Up to 12 Small Form Factor (SFF) hot-pluggable SAS, SATA, or SSD disk drives
- Abundant I/O capability with 10 PCI Express (PCIe) Generation 3 (Gen 3) slots supporting the Cisco UCS virtual interface cards (VICs). An internal slot is reserved for a hard-disk drive array controller card
- Two Gigabit Ethernet LAN-on-motherboard (LOM) ports, two 10-Gigabit Ethernet ports, and a dedicated out-of-band (OOB) management port that provides additional networking options

The Cisco UCS C460 M4 Rack Server offers industry-leading performance and advanced reliability well suited for the most demanding enterprise and mission-critical workloads, large-scale virtualization, and database applications. Whether the Cisco UCS C460 M4 is used as a standalone system or in a Cisco Unified Computing System™ (Cisco UCS) deployment, customers gain the benefits of the server's high-capacity memory when very large memory footprints such as the following are required:

- SAP workloads
- Database applications and data warehousing
- Large virtualized environments
- Real-time financial applications
- Java-based workloads

- Server consolidation

Overview of Cisco UCS C240 M4 Rack Servers

The enterprise-class Cisco UCS C240 M4 server extends the capabilities of the Cisco UCS portfolio in a 2RU form -factor. Based on the Intel Xeon processor E5-2600 v3 series, it delivers an outstanding combination of performance, flexibility, and efficiency. In addition, the Cisco UCS C240 M4 offers outstanding levels of internal memory and storage expandability with exceptional performance. It delivers:

- Up to 24 DDR4 DIMMs for improved performance and lower power consumption
- Up to 6 PCI Express (PCIe) 3.0 slots (4 full-height, full-length)
- Up to 24 small-form factor drives or 12 large form-factor drives, plus two (optional) internal SATA boot drives
- Support for 12-Gbps SAS drives
- A modular LAN-on-motherboard (mLOM) slot for installing a next-generation Cisco virtual interface card (VIC) or third-party network interface card (NIC) without consuming a PCIe slot
- 2 x 1 Gigabit Ethernet embedded LOM ports
- Supports two double-wide Nvidia graphics processing units (GPUs), providing a graphics-rich experience to more virtual users
- Excellent reliability, availability, and serviceability (RAS) features with tool-free CPU insertion, easy-to-use latching lid, hot-swappable and hot-pluggable components, and redundant Cisco® Flexible Flash (FlexFlash) SD cards.

The Cisco UCS C240 M4 Rack Server with the Intel Xeon processor E5-2600 v3 product family is well suited for a wide range of storage and I/O-intensive applications such as:

- Big data
- Collaboration
- Small and medium-sized business (SMB) databases
- Virtualization and consolidation
- Storage servers
- High-performance appliances

The Cisco UCS C240 M4 can be deployed as standalone servers or as part of the Cisco Unified Computing System, which unifies computing, networking, management, virtualization, and storage access into a single integrated architecture that enables end-to-end server visibility, management, and control in both bare-metal and virtualized environments. Within a Cisco UCS deployment, the Cisco UCS C240 M4 takes advantage of Cisco's standards-based unified computing innovations, which significantly reduce customers' total cost-of-ownership (TCO) and increase business agility.

Overview of Cisco UCS C220 M4 Rack Servers

The enterprise-class Cisco UCS C220 M4 server extends the capabilities of the Cisco UCS portfolio in a 1RU form factor. It incorporates the Intel® Xeon® processor E5-2600 v3 product family, next-generation DDR4 memory, and 12-Gbps SAS throughput, delivering significant performance and efficiency gains. The Cisco UCS C220 M4 rack server delivers outstanding levels of expandability and performance in a compact 1RU package:

- Up to 24 DDR4 DIMMs for improved performance and lower power consumption

- Up to 8 Small Form-Factor (SFF) drives or up to 4 Large Form-Factor (LFF) drives and PCIe SSDs
- Support for 12-Gbps SAS Module RAID controller drivesin a dedicated slot; leaving remaining two PCIe Gen 3.0 slots available for other expansion cards
- A modular LAN-on-motherboard (mLOM) slot that can be used to install a Cisco UCS virtual interface card (VIC) or third-party network interface card (NIC) without consuming a PCIe slot
- Two embedded 1Gigabit Ethernet LAN-on-motherboard (LOM) ports

The Cisco UCS C220 M4 Rack Server with the Intel Xeon processor E5-2600 v3 product family is excellent for a wide range of enterprise workloads, including:

- IT and web infrastructure
- High-performance virtual desktops
- Medium -sized or distributed databases
- Middleware
- Collaboration
- Public cloud

Cisco UCS C220 M4 can be deployed as standalone servers or in an UCS-managed environment. When combined with Cisco UCS, the Cisco UCS C220 M4 brings the power and automation of unified computing to enterprise applications, including SingleConnect technology that drastically reduces switching and cabling requirements. Cisco UCS Manager with service profiles enables rapid deployment and end-to-end server visibility, management, and control in both virtualized and bare-metal environments. The Cisco UCS C220 M4 is the most versatile general-purpose enterprise infrastructure and application server in the industry.

Overview of the Pre-Installed Cisco Flexible Flash Card

Starting with version 1.5(4), the SD storage device is available to Cisco IMC as a single hypervisor (HV) partition configuration. Prior versions had four virtual USB drives.

Refer to the following documents for more information about these tasks:

- Replacing a card: Refer to any of the following:
  - *Cisco UCS C220 Server Installation and Service Guide*
  - *Cisco UCS C240 Server Installation and Service Guide*
  - *Cisco UCS C460 M4 Server Installation and Service Guide*
  - *Cisco UCS C220 M4 Server Installation and Service Guide*
  - *Cisco UCS C240 M4 Server Installation and Service Guide*
- Enabling and booting a VD: *Cisco UCS C-Series Servers Integrated Management Controller GUI Configuration Guide* or the *Cisco UCS C-Series Servers Integrated Management Controller CLI Configuration Guide*
- Monitoring and managing a card with Cisco IMC: *Cisco UCS C-Series Servers Integrated Management Controller GUI Configuration Guide* or the *Cisco UCS C-Series Servers Integrated Management Controller CLI Configuration Guide*

The links to these documents are in the C-Series documentation road map:

http://www.cisco.com/go/unifiedcomputing/c-series-doc

Hardware and Software Interoperability

For detailed information about storage switch, operating system, adapter, adapter utility, and storage array interoperability, see the *Hardware and Software Interoperability Matrix* for your release located at:

http://www.cisco.com/en/US/products/ps10477/prod_technical_reference_list.html

Transceivers Specifications

The Cisco UCS C-Series servers supports a wide variety of 10 Gigabit Ethernet connectivity options using Cisco 10GBASE SFP+ modules.

Table 3 and Table 4 details the controllers and the supported transceivers.

Table 3 Controllers and SFP+ Twinax Transceivers Support Matrix

Controllers (LOM and PCIe)	10GBASE-CU SFP+ Cable 1 Meter, passive	10GBASE-CU SFP+ Cable 3 Meter, passive	10GBASE-CU SFP+ Cable 5 Meter, passive	10GBASE-CU SFP+ Cable 7 Meter, active	10GBASE-CU SFP+ Cable 10 Meter, active
	SFP-H10GB-CU1M	SFP-H10GB-CU3M	SFP-H10GB-CU5M	SFP-H10GB-ACU7M	SFP-H10GB-ACU10M
Cisco UCS Virtual Interface Cards	x	x	x	x	x
Intel x520					
Broadcom 57712	x	x	x	x	x

Table 4 Controllers and SFP+Optical Transceivers Support Matrix

Controllers (LOM and PCIe)	Intel SR Optics	JDSU (PLRXPL-SC-S43-22-N) SFP+	Cisco SFP-10G-SR
Cisco UCS Virtual Interface Cards	NA	NA	x
Intel x520	x	NA	Not supported
Broadcom 57712	NA	x	x

Firmware Upgrade Details

Firmware Files

The C-Series software release 2.0(9) includes the following software files:

Table 5 Files in this release

CCO Software Type	File name(s)	Comment
Unified Computing System (UCS) Server Firmware	ucs-c2x-huu-2.0.9.iso ucs-c240-huu-2.0.9.iso ucs-c220-huu-2.0.9.iso ucs-c240m4-huu-2.0.9.iso ucs-c220m4-huu-2.0.9.iso ucs-c460m4-huu-2.0.9.iso ucs-c3160-huu-2.0.9.iso ucs-c3260 M3-huu-2.0.9.iso For release specific ISO versions, see Cisco UCS C-Series Integrated Management Controller Firmware Files, Release 2.0	Host Upgrade Utility
Unified Computing System (UCS) Drivers	ucs-cxxx-drivers.2.0.9.iso	Drivers
Unified Computing System (UCS) Utilities	ucs-cxxx-utils-efi.2.0.9.iso ucs-cxxx-utils-linux.2.0.9.iso ucs-cxxx-utils-vmware.2.0.9.iso ucs-cxxx-utils-windows.2.0.9.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 or CMC), since this could lead to unexpected behavior. If you choose to upgrade BIOS, the Cisco IMC and the CMC individually and not from the HUU ISO, make sure to upgrade both Cisco IMC, BIOS and CMC to the same container release. If the BIOS, CMC 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, CMC 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 following firmware:

- Cisco Integrated Management Controller (Cisco IMC)

- System BIOS
- Chassis Management Controllers (CMC)
- SAS Expander
- C3260 M3 System I/O Controller
- LAN on motherboard (LOM)
  - Intel Ethernet i350 PCI Server Adapter
  - Intel X540 dual port LOM
  - Intel I350 mLOM
- LSI
  - Cisco UCSC RAID SAS 12G SAS Modular Raid Controller
  - Cisco RAID controller for UCS C3X60 Storage Servers
  - Cisco UCSC RAID SAS 12G SAS Modular Raid Controller for C460
  - Cisco 12G Modular SAS Pass-through Controller
  - UCS 3x60 12G SAS Pass through Controller
  - LSI MegaRAID SAS 9220-4i
  - LSI MegaRAID SAS 9220-8i
  - LSI MegaRAID SAS 9240-8i
  - LSI MegaRAID SAS 9265CV-8i
  - LSI MegaRAID SAS 9270CV-8i
  - LSI MegaRAID SAS 9286CV-8e
  - LSI MegaRAID SAS 8110-4i
  - LSI MegaRAID SAS 9266-8i
  - LSI MegaRAID SAS 9271CV-8i
  - LSI MegaRAID SAS 9285CV-8e
  - LSI MegaRAID SAS 9266CV-8i
  - LSI MegaRAID SAS 9361-8i
  - LSI MegaRAID SAS 9300-8E
- Cisco Adapter UCS VIC P81E
- Cisco Adapter UCS VIC 1225
- Cisco Adapter UCS VIC 1225T
- Cisco Adapter UCS VIC 1227
- Cisco Adapter UCS VIC 1227T
- Cisco Adapter UCS VIC 1385
- Cisco Adapter UCS VIC 1387
- Broadcom PCI adapters
  - 5709 Dual and Quad port adapters
  - 57712 Dual port adapter SFP+

  - 57712 Dual port adapter 10GBaseT
  - 57810 Dual port
- Intel adapters
  - i350 Quad port adapter
  - X520 Dual port adapter
  - X540 Dual port adapter
- QLogic Adapters
  - QLogic-2462
  - QLogic-2562
  - QLogic-2672
  - QLogic-8442
  - QLogic-8362
  - Qlogic 8442 SFP
  - Qlogic 8442 10G Base
- Emulex adapters
  - LightPulse LPe11002
  - LightPulse LPe12002
  - LightPulse LPe16002
  - OneConnect® OCe11102
  - OneConnect® OCe14102
  - OCe14102B-UX dual port SFP+ CNA
- Fusion
  - Fusion-io ioDrive2 1205G
  - Fusion-io ioDrive2 3000G
  - Fusion-io ioDrive2 365G
  - Fusion-io ioDrive2 785G
  - Fusion IO Memory 1000G
  - Fusion IO Memory 1300G
  - Fusion IO Memory 2600G
  - Fusion IO Memory 3200G
  - Fusion IO Memory 5200G
  - Fusion IO Memory 6400G
  - Fusion IO SX350 1300 GB
  - Fusion IO SX350 1600 GB
  - Fusion IO SX350 3200 GB
  - Fusion IO SX350 6400 GB
  - Cisco UCS 1300GB SanDisk ioMemory SX350
  - Cisco UCS 1600GB SanDisk ioMemory SX350

  - Cisco UCS 3200GB SanDisk ioMemory SX350
  - Cisco UCS 6400GB SanDisk ioMemory SX350
- Nvidia
  - TESLA K10
  - TESLA K20m
  - TESLA K20xm
  - TESLA K40m
  - TESLA K80
  - VGX GRID K1
  - VGX GRID K2
  - TESLA M60
  - TESLA K80 magma Chassis
  - vidia k40 magma Chassis
- NVMe PCI SSD 800GB
- NVMe PCI SSD 1.6TB
- HDD
  - ST9146853SS
  - ST9300653SS
  - ST300MM0006
  - ST600MM0006
  - ST900MM0006
  - ST9500620SS
  - ST1000NX0453
  - ST2000NX0433
  - ST91000640SS
  - ST1800MM0008
  - ST600MM0008
  - MZ6ER200HAGM
  - MZ6ER400HAGL
  - MZ6ER800HAGL
  - ST1000NM0001
  - ST2000NM0001
  - ST500NM0011
  - AL13SEB300
  - AL13SEB600
  - AL13SEB900
  - ST9300605SS

- ST9600205SS
- ST9900805SS
- MK1001TRKB
- MK2001TRKB
- MG03SCA400
- ST33000650SS
- ST3600057SS
- ST9146803SS
- ST9300603SS
- ST9500530NS
- MTFDDAK100MAR
- MTFDDAK400MAR
- SSDSA2BZ100G301
- SSDSA2SH064G1GC
- ST1000NM0023
- ST2000NM0023
- ST3000NM0023
- ST4000NM0023
- ST6000NM0014
- STEC
- SSDSC2BB120G4
- SSDSC2BB480G4
- ST1200MM0007
- ST1200MM0088
- ST2000NM0033
- ST300MM0008
- ST300MP0005
- ST450MP0005
- ST600MM0088
- ST600MP0005
- ST900MM0168
- HUS724020ALS640
- HUS724030ALS640
- HUS724040ALS640
- PX02SMF040

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

Starting with 1.4 release, separate ISO images of Host Upgrade Utility are available for different server platforms.

The ISO image is now named as ucs-<*server_platform*>-huu-<*version_number*>.iso.

For details of firmware files in Cisco Host Upgrade Utility for individual releases, see Cisco UCS C-Series Integrated Management Controller Firmware Files, Release 2.0

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
- SIOC
- Cisco VIC Adapters
- LSI Adapters
- LAN on Motherboard Settings
- PCIe adapter Firmware
- HDD firmware

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

Note 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.

Supported Features

This section includes the following topics:

Supported Features

This section lists the supported features for the following releases:

Release 2.0(9f)

- Added support for Disabling of all Cisco IMC local users
- Added support for the following adapter cards:
  - Cisco UCS 1300GB SanDisk ioMemory SX350
  - Cisco UCS 1600GB SanDisk ioMemory SX350
  - Cisco UCS 3200GB SanDisk ioMemory SX350
  - Cisco UCS 6400GB SanDisk ioMemory SX350

When you install SX350 cards on the C220 M4 and C240 M4 servers, use the 'max power' policy for the cards.

Note Currently for the C240 M4 server, only five SX350 cards can be configured.

- Added support for the following hard drives:
  - UCSC-C3X60-10TB
  - UCSC-C3X60-10TBRR
- Added supported for the following DIMMs:
  - UCS-ML-1X324RU-G
  - UCS-ML-1X644RU-G

Note The above two DIMMs require Cisco UCS C-Series 2.0(9) or later.

  - UCS-MR-1X081RV-A
  - UCS-MR-1X161RV-A
  - UCS-MR-1X322RV-A
  - UCS-ML-1X324RU-A
  - UCS-MR-1X081RU-G
  - UCS-MR-1X162RU-A
  - UCS-MR-1X162RU-G
  - UCS-MR-1X322RU-G
  - UCS-MR-2X162RY-E

Release 2.0(9e)

Added support for Emulex OCe14102B-UX dual port SFP+ CNA adapter.

Release 2.0(9d)

The following software features are supported in Release 2.0(9d):

- Added support for Cisco UCS Virtual Interface Card 1387 MLOM.
- Added support for pasting the content of a certificate in a text field.

- Added support for enabling or disabling strong password in user management.
- Added support for admin and operation mode in auto negotiation feature.
- Added support for fingerprint confirmation for remote server types SCP and SFTP server during firmware updates or importing/exporting adapter configuration remotely.

Release 2.0(9c)

The following software features are supported in Release 2.0(9c):

- Added support for Cisco UCS Virtual Interface Card 1387 MLOM.
- Added support for pasting the content of a certificate in a text field.
- Added support for enabling or disabling strong password in user management.
- Added support for admin and operation mode in auto negotiation feature.
- Added support for fingerprint confirmation for remote server types SCP and SFTP server during firmware updates or importing/exporting adapter configuration remotely.
- Added support for Full Disk Encryption (FDE) on a drive, which comprises the following:
  - Create a secure virtual drive
  - Secure a non-secure drive group
  - Unlock foreign configuration drives
  - Enable security on a physical drive (JBOD)
  - Clear secure Self Encrypting Drive (SED) drives
  - Clear foreign Config drives
  - Manual/Local Key Management
- Added support for RoCE properties.
- Changed the Fan Policies default value from **Balanced** to **Low Power** to optimize the power of the fan speed.

Software Utilities

The following standard utilities are available:

- Host Update Utility (HUU)
- Server Configuration Utility (SCU) including Interactive Offline Diagnostics (IOD)
- BIOS and Cisco IMC Firmware Update utilities

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.

Supported Platforms

This section lists the supported platforms for the following releases:

- Release 2.0(9n), page 22

Release 2.0(9n)

The following platforms are supported in Release 2.0(9n):

- UCS-C220 M3
- UCS-C240 M3
- UCS-C22 M3
- UCS-C24 M3

Release 2.0(9l)

The following platforms are supported in Release 2.0(9l):

- UCS-C220 M3
- UCS-C240 M3
- UCS-C22 M3
- UCS-C24 M3
- UCS-C220 M4
- UCS-C240 M4
- UCS-C460 M4
- UCS-C3160 M3
- UCS-C3260 M3

Release 2.0(9i)

The following platforms are supported in Release 2.0(9i):

- UCS-C3160 M3
- UCS-C3260 M3

Release 2.0(9f)

The following platforms are supported in Release 2.0(9f):

- UCS-C220 M3
- UCS-C240 M3
- UCS-C22 M3
- UCS-C24 M3

- UCS-C220 M4
- UCS-C240 M4
- UCS-C460 M4

Release 2.0(9e)

The following platforms are supported in Release 2.0(9e):

- UCS-C220 M4
- UCS-C240 M4
- UCS-C460 M4

Release 2.0(9d)

The following platforms are supported in Release 2.0(9d):

- UCS-C3160 M3
- UCS-C3260 M3

Release 2.0(9c)

The following platforms are supported in Release 2.0(9c):

- UCS-C220 M3
- UCS-C240 M3
- UCS-C22 M3
- UCS-C24 M3
- UCS-C220 M4
- UCS-C240 M4
- UCS-C460 M4

SNMP

The supported MIB definition for Release 2.0(9) and later releases can be found at the following link: ftp://ftp.cisco.com/pub/mibs/supportlists/ucs/ucs-C-supportlist.html

Note The above link is incompatible with IE 9.0.

Supported Storage Controllers

SNMP supports the following storage controllers:

In C22

- MegaRAID 9220-4i

- MegaRAID 9220-8i
- MegaRAID 9240-8i
- MegaRAID 9265CV-8i
- MegaRAID 9270CV-8i
- MegaRAID 9286CV-8e

In C24

- MegaRAID 9220-4i
- MegaRAID 9220-8i
- MegaRAID 9240-8i
- MegaRAID 9265CV-8i
- MegaRAID 9270CV-8i
- MegaRAID 9286CV-8e

In C220 M3 and C240 M3

- MegaRAID 9266-8i
- MegaRAID 9271CV-8i
- MegaRAID 9285CV-8e
- MegaRAID 9286CV-8e
- MegaRAID SAS 8110-4i(only C240)

In C220 M4 and C240 M4

- Cisco UCSC RAID SAS 12G SAS Modular Raid Controller
- Cisco 12G Modular SAS Pass through Controller
- MegaRAID 9300-8e

In C460 M4

- LSI MegaRAID SAS 9361-8i
- LSI MegaRAID SAS 9300-8E
- Cisco 12G SAS Modular Raid Controller
- Cisco UCSC RAID SAS 12G SAS Modular Raid Controller for C460

In C3160

- Cisco RAID controller for UCS C3X60 storage servers
- Cisco UCS C3X60 12G SAS Pass through Controller

In C3260 M3

SNMP supports the RAID controller for UCS C3X60 Storage on C3260 M3 servers.

Security Fixes

Release 2.0(9p)

The following security issues were addressed in Release 2.0(9p):

Release	Defect ID	CVE(s)	Description
2.0(9p)	CSCvp34795	• CVE-2018-12126 • CVE-2018-12127 • CVE-2018-12130 • CVE-2019-11091	Cisco UCS C-Series and S-Series M3 servers are based on Intel® Xeon® Processor E5 v2 processors that are vulnerable to variants of exploits that use Microarchitectural Data Sampling (MDS) to gain access to data being processed in the CPU by other applications. • CVE-2018-12126 (Microarchitectural Store Buffer Data Sampling) affects store buffers in the CPU, and is addressed by applying the updated microcode included in the UCS Cisco IMC release as well as the relevant Operating System and Hypervisor patches from the appropriate vendors. • CVE-2018-12127 (Microarchitectural Load Port Data Sampling) affects load buffers in the CPU, and is addressed by applying the updated microcode included in the UCS Cisco IMC release as well as the relevant Operating System and Hypervisor patches from the appropriate vendors. • CVE-2018-12130 (Microarchitectural Fill Buffer Data Sampling) affects line fill buffers in the CPU, and is addressed by applying the updated microcode included in the UCS Cisco IMC release as well as the relevant Operating System and Hypervisor patches from the appropriate vendors. • CVE-2019-11091 (Microarchitectural Uncacheable Data Sampling) affects the uncacheable memory buffers in the CPU, and is addressed by applying the updated microcode included in the UCS Cisco IMC release as well as the relevant Operating System and Hypervisor patches from the appropriate vendors. This release includes BIOS revisions for Cisco UCS M4 generation servers. These BIOS revisions include the updated microcode that is a required part of the mitigation for these vulnerabilities.

Release 2.0(9o)

The following security issues were addressed in Release 2.0(9o):

Release	Defect ID	CVE(s)	Description
2.0(9o)	CSCvm03357	• CVE-2018-3615 • CVE-2018-3620 • CVE-2018-3646	Cisco UCS C-Series M3 servers are based on Intel® processors that are vulnerable to exploits that use CPU speculative processing and data cache timing to potentially identify privileged information. These exploits are collectively known as L1 Terminal Fault (L1TF). • CVE-2018-3615 (affecting SGX), also known as Foreshadow, is not known to affect any existing Cisco UCS servers because Cisco UCS M5 and earlier generation servers, and HyperFlex M5 and earlier generation servers do not use Intel® SGX technology. • CVE-2018-3620 (affecting OS/System Management Mode) and CVE-2018-3646 (affecting Virtual Machine Monitors) are referred to as L1 Terminal Fault attacks by Intel®. These vulnerabilities are mitigated by applying the updated processor microcode from Intel® included in the server firmware bundle, and the relevant Operating System and Hypervisor patches from the appropriate vendors. This release includes BIOS revisions for Cisco UCS M3 generation servers. These BIOS revisions include the updated processor microcode that is a required part of the mitigation for CVE-2018-3620 (OS/SMM) and CVE-2018-3646 (VMM). Operating System and Hypervisor patches from the appropriate vendors may also be required to mitigate these vulnerabilities. For more information, please see the Cisco Security Advisory at: CPU Side-Channel Information Disclosure Vulnerabilities: August 2018
2.0(9o)	CSCvj59312	• CVE-2018-3639 • CVE-2018-3640	Cisco UCS M3 servers are based on Intel® EP and EN Series processors that are vulnerable to variants of an exploit that uses CPU speculative processing and data cache timing to efficiently leak information, known as Spectre. CVE-2018-3639 (Spectre/Variant #4) and CVE-2018-3640 (Spectre/Variant #3a) are addressed by applying the updated processor microcode from Intel included in the server firmware bundle, and the relevant Operating System and Hypervisor patches from the appropriate vendors. This release includes BIOS revisions for Cisco UCS M3 generation servers that are based on Intel® EP and EN Series processors. These BIOS revisions include the updated processor microcode that is a required part of the mitigation for CVE-2018-3639 (Spectre/Variant #4) and CVE-2018-3640 (Spectre/Variant #3a). For more information, please see the Cisco Security Advisory at: CPU Side-Channel Information Disclosure Vulnerabilities: May2018

Release 2.0(9n)

The following security issues were addressed in Release 2.0(9n):

Release	Defect ID	CVE(s)	Description
2.0(9n)	CSCvg97965	• CVE-2017-5715 • CVE-2017-5753 • CVE-2017-5754	Cisco UCS and Hyperflex servers are based on Intel processors that are vulnerable to exploits that use CPU speculative processing and data cache timing to potentially identify privileged information. These exploits are collectively known as Spectre and Meltdown. • CVE-2017-5754 (Meltdown) is addressed by applying the relevant Operating System patches from the appropriate vendors. • CVE-2017-5715 (Spectre/Variant 2) is addressed by applying the updated microcode included in the UCS Manager release as well as the relevant Operating System and Hypervisor patches from the appropriate vendors. • CVE-2017-5753 (Spectre/Variant 1) is addressed by applying relevant Operating System and Hypervisor patches from the appropriate vendors. This release includes BIOS revisions for Cisco UCS M3 and Hyperflex M3 generation servers. These BIOS revisions include the updated microcode that is a required part of the mitigation for CVE-2017-5715 (Spectre/Variant 2). For more information, please see the Cisco Security Advisory at: https://tools.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-20180104-cpusidechannel

Resolved Caveats

This section lists the Resolved Caveats for the following releases:

Release 2.0(9m)

The following defect was resolved in Release 2.0(9m):

External Storage

Defect ID	Symptom	First Affected Release	Resolved in Release
CSCux11611	Hard drives spinning idly for a long time are prone to failure. This occurs when the drives continue to spin in a powered system without an OS installed, or in a JBOD configuration without any read or write activity.	2.0(9f)	2.0(9m)

Release 2.0(9l)

The following defect was resolved in Release 2.0(9l):

BMC

Defect ID	Symptom	First Affected Release	Resolved in Release
CSCuz36996	On the C220 M3 and C240 M3 servers, after upgrading from 2.0(9c) to 2.0(9f), Cisco IMC is not accessible while trying to access it using HTTPs Or SSH. Errors such as, "**2001: Service not available"** Or **"Timed Out"** are displayed. These errors occur when SNMP is enabled and XML API queries are run.	2.0(9c)	2.0(9l)

Release 2.0(9f)

The following defects are resolved in Release 2.0(9f):

BIOS

Defect ID	Symptom	First Affected Release	Resolved in Release
CSCux75516	On the C460 M4 server with 96 DIMMs, BIOS POST may become unresponsive after you perform firmware upgrade of all components using the update all option in HUU.	2.0(9b)	2.0(9f)

XML API

Defect ID	Symptom	First Affected Release	Resolved in Release
CSCux63831	XML API interface does not allow users to configure rate limit higher than 10G. This issue occurs when you try to configure rate limit higher than 10G on the Cisco UCS VIC adapters that support up to 40G.	2.0(8g)	2.0(9f)
CSCux81192	Incorrect DN value with an extra “/” at the end is displayed for "Certificate Management" managed object while performing **configResolveClass** or **configResolveDn**. The correct value is sys/cert-mgmt, whereas the displayed incorrect value is sys/cert-mgmt/	2.0(9b)	2.0(9f)

Release 2.0(9e)

The following defects are resolved in Release 2.0(9e):

BIOS

Defect ID	Symptom	First Affected Release	Resolved in Release
CSCux97139	IPMI command to boot to a specific type of device does not work as expected when the **Configpolicy.xml** file that configures the precision boot order policy is present on Cisco IMC. This issue occurs when devices of the same type are not in a sequence.	2.0(9c)	2.0(9e)

Release 2.0(9d)

The following defects are resolved in Release 2.0(9d):

BMC

Defect ID	Symptom	First Affected Release	Resolved in Release
CSCuw27217	On the C3260 M3 server, during static IP configuration, the management IP address of BMC1 and BMC2 is not reachable. This issue occurs when the BMC sends an address request protocol (ARP) packet in both DHCP and Static IP configuration after configuring the gateway. However the ARP packets are not going out correctly which may render BMC non-reachable.	2.0(7d)	2.0(9d)

External Controllers

Defect ID	Symptom	First Affected Release	Resolved in Release
CSCuu49659	On the C3160 server, the SAS Expander displays a firmware assertion error and hangs. This happens for no specific reason.	2.0(8)	2.0(9d)
CSCut93836	On the C3260 M3 server, the Pre-Boot utility (Cntrl-C) when launched for SAS HBA card, refreshes every 8-9 seconds causing inconvenience as it interrupts any forthcoming operations. This issue occurs when you enter the Ctrl+C utility to view the SAS HBA/drives.	2.0(7)	2.0(9d)

CMC

Defect ID	Symptom	First Affected Release	Resolved in Release
CSCuv53427	On the C3160 server, the Cisco IMC infrequently reports one or more fans as being absent momentarily. However, several seconds later it reports the fans as being present again. This happens on any system operating for a considerable amount of time.	2.0(8)	2.0(9d)
CSCuw10190	On the C3260 M3 server, CMC may remain unresponsive after a reboot. This occurs after any action (such as activating new CMC firmware or resetting to factory default) that initiates a CMC reboot.	2.0(7a)	2.0(9d)

Defect ID	Symptom	First Affected Release	Resolved in Release
CSCuv39688	On the C3260 M3 server, the IPMI command get SEL entry fails on the CMC and displays the message 'invalid reservation id'. This occurs when you run the command manually.	2.0(7a)	2.0(9d)
CSCuv18970	On the C3260 M3 server, after you upgrade the Host Upgrade Utility (HUU) using the command update-all,the firmware upgrade fails to start automatically.	2.0(7)	2.0(9d)

PMC Expander

Defect ID	Symptom	First Affected Release	Resolved in Release
CSCuw09711	On the C3260 M3 server, when you update the firmware for the Samsung SM1625 Enterprise SSD from the Web UI, CLI or HUU, an Error 208 message is displayed.	2.0(7)	2.0(9d)

XML API

Defect ID	Symptom	First Affected Release	Resolved in Release
CSCuv95856	On the C3260 M3 server, the XML API configResolveClass on class "adaptorUnit" returns four objects instead of two. The additional two objects show an association of SIOC-1 with Server Node 2 and SIOC-2 with Server Node 1.	2.0(7d)	2.0(9d)
CSCuv63296	On the C3260 M3 server, the server node attributes Serial Number and Model display incorrectly in the XML API response.	2.0(7)	2.0(9d)

Web Management

Defect ID	Symptom	First Affected Release	Resolved in Release
CSCuv70538	On the C3260 M3 server, when you upload a self signed certificate and log on to the server, an error message is displayed indicating the server is not responding.	2.0(7)	2.0(9d)
CSCuu40185	The C3260 M3 server VIC does not support auto-speed negotiation.	2.0(7d)	2.0(9d)

VIC

Defect ID	Symptom	First Affected Release	Resolved in Release
CSCuv68277	On the C3260 M3 server, cyclic redundancy check (CRC) errors are seen on the C3260 M3 SIOC when connected to the Cisco Nexus 5624Q Switch.	2.0(7d)	2.0(9d)

Hardware

Defect ID	Symptom	First Affected Release	Resolved in Release
CSCuw82258	On the C3160 servers, the technical assistance center's techsupport.frupids file reports incorrect HDD PIDs.	2.0(4c)	2.0(9d)

Release 2.0(9c)

The following defects are resolved in Release 2.0(9c):

BMC

Defect ID	Symptom	First Affected Release	Resolved in Release
CSCun73331	After AC power cycle of the Cisco IMC, the **cucsEquipmentPsuTable** table does not display the correct values.	2.0(1)	2.0(9c)
CSCus20952	Unable to map scriptable (local) vMedia when using IPv6. Using hostname of the IPv6 file server during mapping scriptable vMedia causes name resolution to fail and result in failure to map the remote file.	2.0(4c)	2.0(9c)
CSCuu43182	Unencrypted KVM session **Remember this configuration for future sessions** does not work as expected. While trying to launch the KVM console of a sever for the first time, the KVM client prompts you to accept an unencrypted session after you accept the **Remember this configuration for future sessions** prompt, and instead of launching the KVM console, launches another KVM console from the same client machine to the same server.	2.0(6d)	2.0(9c)

Defect ID	Symptom	First Affected Release	Resolved in Release
CSCuc98444	In the CLI, the **create-virtual-drive** command in the virtual drive scope does not display the largest possible size of the virtual drive being created.	1.5(1)	2.0(9c)
CSCuo96421	Changing the physical drives that are in hot spares or online states to unconfigured good fails with an error message.	2.0(2c)	2.0(9c)
CSCuc72251	When using the CLI with the **create-virtual-drive** command, entering incorrect parameters for Physical drive slot number, such as like, exit, quit, is not flagged as an error.	1.5(1)	2.0(9c)
CSCuv18269	Cisco IMC LDAP authentication fails, displaying an error indicating incorrect password or user name, after upgrading Cisco IMC to version 2.0(6d).	2.0(4c)	2.0(9c)

BIOS

Defect ID	Symptom	First Affected Release	Resolved in Release
CSCuv66192	The dedicated mode network port speed setting of 10Mbps is not available, thus affecting auto-negotiation of port speed. This happens when network switches are only capable of 10Mbps and not compatible with cards supporting 100/1000Mbps speeds.	2.0.7(d)	2.0.(9c)
CSCuv08968	On the Intel x520 or Intel x540 controllers, the Cisco IMC interface does not display the Intel PCI card details (MAC address).	2.0(6d)	2.0(9c)

LSI

Defect ID	Symptom	First Affected Release	Resolved in Release
CSCuv03959	If you attempt to abort a RAID 10 volume consistency check that has been running for a very long time, the system becomes unresponsive.	1.5(7)	2.0(9c)
CSCup32415	This is applicable to some JBOD Enclosures connected to LSI9300-8E adapter When the SAS Cable connected to the enclosure is plugged-out, the MSM Application and any other controlling application (SAS3Flash) accessing the LSI9300-8e adapter hang/freeze.	2.0(4c)	2.0(9c)

Defect ID	Symptom	First Affected Release	Resolved in Release
CSCuv92501	The Cisco 12 gigabyte modular SAS passthrough controller reports the enclosure temperature crossing the critical threshold in MSM for some configurations. This issue occurs on the C240 M4 server with 24 hard disk drives connected to the passthrough controller. The issue occurs only when the IO is run for more than 24 hours on all the HDDs simultaneously, and if the MSM is installed on the setup.	2.0(8)	2.0(9c)
CSCuu16195	Latency errors seen on VMware with RAID5 when CC runs in the background.	2.0(4c)	2.0(9c)

External Controllers

Defect ID	Symptom	First Affected Release	Resolved in Release
CSCuw22765	On the C240 M4 server, the MegaRAID Storage Manager displays the error "*Temperature sensor above error threshold on "Enclosure: 2*" after 24 hours, during a 48-hour read/write operation on the LSI9300-8E adapter. This happens even when there is no enclosure present.	2.0(8)	2.0(9c)
CSCuv85441	On the C240 M3 server, the SUSE Linux Enterprise Desktop 12 operating system fails to install if a Qlogic 2462 adapter is present on the SNB server	2.0(8)	2.0(9c)
CSCuu90541	Infrequently, and sometimes after a prolonged use, the super-capacitor battery connected to the LSI 9361-81 adapter may be displayed as 'bad'. Additionally, the virtual drives appear to be configured for Write through (WT) mode despite being configured for the Write Back (WB) mode.	2.0(4c)	2.0(9c)
CSCux31179	The LSI MegaRAID SAS 9361?8i controller fails to retain data on the cache for Write-Back mode on virtual drives when an Online Controller is reset and simultaneously the power is also lost.	2.0(4c)	2.0(9c)
CSCux36855	On the C240 M4 server, the RedHat Enterprise Linus 7.0 fails to boot after updating the Nvidia Testral driver.	2.0(9c)	2.0(9c)

VIC

Defect ID	Symptom	First Affected Release	Resolved in Release
CSCus25300	Installing the XenServer version 6.5 through sanboot results in a blue screen error. This occurs specifically during a SAN boot.	1.5(1)	2.0(9c)
CSCut93807	The virtual ethernet ports for the UCS Manager integrated C-Series servers appear to have very high packet counts. This issue occurs only when a virtual ethernet is used internally for management communication between the UCS Manager and BMC.	2.0(3d)	2.0(9c)
CSCup71624	The server resets during RHEL 7.0 OS installation in QLE2462 SAN Target.	2.0(3d)	2.0(9c)

Web Management

Defect ID	Symptom	First Affected Release	Resolved in Release
CSCuv95905	While uploading a new SSL certificate to Cisco IMC, a pop-up message appears indicating that the Web server will be restarted, but it does not actually restart. You have manually restart Cisco IMC, only then you can use the new certificate.	2.0(3f)	2.0(9c)
CSCux39484	The Web UI does not update the required actions after successfully enabling or disabling controller security.	2.0(9c)	2.0(9c)

Open Caveats

This section lists the open caveats for the following releases:

- Release 1.5(1), page 48
- Release 1.4(7), page 48

Release 2.0(9i)

The following defect is open in Release 2.0(9i):

HUU

Defect ID	Symptom	Workaround	First Affected Release
CSCuz00840	On the C3160 and C3260 M3 servers, while trying to update the HDD firmware using HUU, hard drives on the HDD expander module will not be available for firmware update on HUU.	Use the Cisco IMC WebUI or the CLI to update the firmware.	2.0(9i)

Release 2.0(9f)

The following defect is open in Release 2.0(9f):

VIC

Defect ID	Symptom	Workaround	First Affected Release
CSCuy23450	On a UCS C-Series server managed using Cisco IMC standalone (not managed by UCS Manager), network connections to Cisco IMC may fail because the IP address assigned to Cisco IMC is not reachable on the IP network. This problem affects servers when a Cisco UCS VIC adapter 1385 or 1387 is used to access Cisco IMC (NIC mode: "Cisco Card") and the VIC adapter uplinks are configured in NIV mode.	Unselect VN-Tag mode and select Classical Ethernet mode.	2.0(9f)

Release 2.0(9e)

The following defects are open in Release 2.0(9e):

BIOS

Defect ID	Symptom	Workaround	First Affected Release
CSCuy15543	On the Cisco IMC Web UI and CLI the actual boot order is displayed incorrectly when you configure the **IpmiBootOrder** from Cisco IMC using the **Configpolicy.xml** file that is used to configure the precision boot order policy.	None. The incorrect boot order should be ignored. The functionality works as expected and the BIOS setup displays the actual boot order correctly.	2.0(9e)

Release 2.0(9d)

The following defects are open in Release 2.0(9d):

CMC

Defect ID	Symptom	Workaround	First Affected Release
CSCux55063	On the C3260 M3 server, the Fault History and System Event Log may contain entries incorrectly indicating that all chassis fans were removed, then reinstalled several seconds later. This issue might occur during a CMC reboot or CMC failover event.	None. The incorrect entries should be ignored.	2.0(8)

BMC

Defect ID	Symptom	Workaround	First Affected Release
CSCux19735	On the C3160 server, the HDD LEDs on the left hand side of the server do not function as expected.	None.	2.0(8)
CSCut36603	An error message stating that the Supercap has degraded is displayed during a transparent learn cycle. This issue occurs when the server contains a RAID controller using a SuperCap and is running a Cisco IMC firmware lower than 2.0(4c). Additionally, the Supercap in the learn cycle has a low charge.	Configure the SNMP monitoring tools to ignore this fault.	2.0(1b)

External Controllers

Defect ID	Symptom	Workaround	First Affected Release
CSCuw24325	On the C3260 M3 server, when a specific bad drive (or a tentatively bad drive) is used, the LSI controller crashes due to IO timeout when used in single-drive RAID0 configuration.	None. Replace the drive with a good one.	2.0(7d)

Web Management

Defect ID	Symptom	Workaround	First Affected Release
CSCuv51153	On the C3260 M3 server, you may be prompted to logout from the UI session indicating that a session is already active.	Manually clear the browser cookies.	2.0(7d)

VIC

Defect ID	Symptom	Workaround	First Affected Release
CSCuv71938	On the C3260 M3 server, the VIC adapter may not be discovered by HUU if the HUU is booted simultaneously on both server nodes.	Boot and run HUU on each server node sequentially instead of in parallel.	2.0(7d)
CSCux78046	On the C3260 M3 server, the link state of the SIOC Ethernet port is shown as DOWN when the LR4 or SR-BiDi cables are used.	Do not use the said cables with SIOC ports, use other supported media instead.	2.0(9d)
CSCuw26987	On the C3260 M3 server, the “Connector Present” and “Connected Supported” parameters fail with a warning message. The command line output displays 'NA'.	None.	2.0(7d)

Release 2.0(9c)

The following defects are open in Release 2.0(9c):

BMC

Defect ID	Symptom	Workaround	First Affected Release
CSCux43338	On the Mozilla Firefox web browser 42.0, when you click the 'Paste Server Certificate' option on the Web UI, the pop-up dialog box eclipses the 'Save Certificate' and 'Cancel' buttons.	Move the dialog box so as to make the 'Save Certificate' and 'Cancel' buttons visible, or use a different web browser such as Google Chrome or Microsoft Internet Explorer.	2.0(9c)
CSCux31845	The Web UI is unresponsive when you swap a virtual drives physical drive with an external physical drive more than once.	Power cycle the system and wait for the BIOS POST to completely recover the unresponsive UI page.	2.0(9c)
CSCuw76431	While installing Red Hat Enterprise Linux 7.1 operating system on the UCS C-Series servers, a critical SEL entry similar to this is created: *The 2015-10-12 10:35:07 critical "System Software event: OS Event sensor, unknown event"*.	None.	2.0(9c)

External Controllers

Defect ID	Symptom	Workaround	First Affected Release
CSCuw86750	When physical drives containing all Virtual drives are removed or replaced, the system displays a fault "configuration lost" which remains unchanged until a virtual drive is created or the configuration is cleared using WebBIOS or Ctrl +R function.	Create a virtual drive or clear a configuration using Web BIOS or Ctrl+R function.	1.5(1)
CSCuv51716	The C240 M4 server connected to a Magma Chassis GPU Expander with Multiple Tesla (k40/K80) cards, occasionally becomes unresponsive during a reboot using the RedHat Enterprise Linux 6.x operating system.	Perform a hard reboot to the server.	2.0(9c)
CSCux28724	On the C240 M4 server, update to the NVidia driver fails on the RedHat Linux Enterprise 7.0 or 7.1 for Tesla K40m and Telsa K80 adapters.	Run the driver installation in single-user mode or disable the server before installing the driver.	2.0(9c)
CSCux44506	If a boot virtual drive is marked hidden after setting a different virtual drive as boot drive, and if the system is running from the previously configured boot virtual drive, the system may shut down based on the operating system.	None.	2.0(9c)

Defect ID	Symptom	Workaround	First Affected Release
CSCux05183	Enabling the "Pass for password at boot time" feature when enabling controller Security to support SED drives (self encrypting drives) feature from LSI host applications such as MSM or StorCli results in the boot time password to be entered multiple times when the system is rebooted.	This feature is not supported at this time due to multiple issues. You can enable drive security but not check the box for enabling the "Pause for password at boot time". The "Pause for password at boot time" is secondary layer of security and is an optional feature.	2.0(9c)
CSCuw64844	The PXE boot is disabled by default on the Emulex adapter. This issue might occur when the adapter is set to factory default settings or the PXE is manually disabled from the option ROM.	Enable the PXE option ROM on the adapter using BIOS or the Emulex HBAnyware Command Line tool (hbacmd).	2.0(9c)
CSCux26754	On the C240 M3 server, the Nvidia graphics processing unit firmware managed by Cisco UCS Manager fails to upgrade with the Nvidia K40 adapter. This issue occurs when the adapter is placed into slot number 5 with the Host Firmware Package (HFP) or auto install feature enabled.	Disable the HFP for the K40 adapter in Cisco UCS Manager and use the Host Upgrade Utility to upgrade the firmware as required.	2.0(9c)
CSCuw83402	Unable to install the **be2iscsi** drivers using shell script on SUSE Linux Enterprise 11 Service Pack 4.	The **be2iscsi** drivers available in the driver iso are packaged in the **tar.gz** format. Untar the **tar.gz** and intall the rpm file manually; using **rpm -ivh file.rpm**	2.0(9c)

VIC

Defect ID	Symptom	Workaround	First Affected Release
CSCuv49700	While using RoCE on a Cisco VIC interface, other features such as VMQ, NVGRE, VxLAN, and usNIC should not be configured on the same VIC interface in order to avoid hardware resource conflict.	None	2.0(7d)
CSCuw10248	With Cisco VIC adapter, NetFlow, usNIC, VM-FEX, VMQ and iSCSI functionality will not work when VXLAN is enabled on the vNIC.	None. Stateless offloads with VXLAN cannot be used with NetFlow, usNIC, VM-FEX, VMQ and iSCSI.	2.0(7)
CSCuv42027	The Priority Flow Control (PFC) mode is always set to 'Standard' on the Cisco VIC adapter if the corresponding switchport's PFC mode is set to ON. This results in the PFC mode not being enabled.	Set the switchport's PFC mode to 'Auto'.	2.0(9c)

Defect ID	Symptom	Workaround	First Affected Release
CSCux40259	Booting SLES 12 SP1 the first time fails with the message "dracut: FATAL: FCoE requested but kernel/initrd does not support FCoE". The issue occurs only with a SAN install or boot, when you provide the async driver during installation.	Continue installation with inbox driver and subsequently, update the driver.	2.0(9c)
CSCuw17399	When you check the transceiver details after an active optical cable of length seven meters is connected from the Cisco UCS VIC 1387 adapter to a Nexus 3016Q switch, it fails to detect the QSFP type. When we check the transceiver details, it does not detect the QSFP type of connector.	None.	2.0(9c)

Release 2.0(8d)

The following defects are open in Release 2.0(8d):

LSI

Defect ID	Symptom	Workaround	First Affected Release
CSCuv45574	On C220/C240 M3 systems with LSI 9271-8i controller, after downgrading the firmware to Release 2.0(3f) or lower with HUU update all, the virtual machines running on the ESXi OS become inaccessible. SUSE operating systems are also impacted and will not boot after upgrade.	See the following VMware knowledge base: http://kb.vmware.com/kb/1011387	2.0(4c)
CSCuv67943	On the C3160 server, the MSM Application displays a pop-up message reporting a defective slot. However, the error is displayed for one slot number below it. For instance, if slot number 31 is a defective slot, the error displays slot 30 as the defective slot.	Add a single number to the error message to view the correct slot number.	2.0(8)

BIOS

Defect ID	Symptom	Workaround	First Affected Release
CSCuv41113	The Windows server 2012 R2 is unresponsive when you install or boot a pre-installed image on a TXT enabled C460 M4 server. This happens only when TXT is enabled using BIOS.	None.	2.0(7)
CSCuv82922	You cannot disable the drive security from the Human Interface Infrastructure (HII) of MSM on the C220 M4 BIOS. This happens with the self-encrypting drives on the C220 M4.	Use the keys Ctrl + R on the legacy BIOS setup to disable security.	2.0(8)

External OS Red Hat

Defect ID	Symptom	Workaround	First Affected Release
CSCut38161	On the C240 M4 server, installation of the Red Hat Enterprise Linux fails on the Seagate 1.8TB 4K Drive.	None. See the following knowledge base: https://access.redhat.com/solutions/1199273	2.0(4c)

Release 2.0(7d)

The following defects are open in Release 2.0(7d):

Utilities

Defect ID	Symptom	Workaround	First Affected Release
CSCuv66222	On the C3260 M3 server, the running CMC firmware version is not activated after a firmware update when the HUU firmware update is running on both server nodes.	Activate the firmware using WebUI or CLI.	2.0.7(d)

Release 2.0(4c)

The following defects are open in Release 2.0(4c):

Cisco IMC

Defect ID	Symptom	Workaround	First Affected Release
CSCul95481	The DIMM temperature sensors are not displayed in the Web UI or CLI interfaces.	No workaround. However, use raw IPMI commands to access these sensor readings, which are located in the Cisco Extended SDR.	2.0(4c)
CSCuj63232	Certain long running operation data may show erroneous data. In other words, it may indicate that an operation is currently running when it is not. For example, the consistency check operation shows 0% progress and is stuck at that status. This problem can occur at any time, but commonly it has been seen after doing a CIMC upgrade.	There is no known way to clear the data. To verify that the data is erroneous, use an LSI tool such as WebBios or MegaCli to see if an operation is in progress.	2.0(4c)

BIOS

Defect ID	Symptom	Workaround	First Affected Release
CSCut07986	OS fails to boot with max VD count (i.e 64) created in LSI controllers. This issue would happen with the Servers configured with max number of VD count in LSI controller. in	Please create lesser than 32 VD count in the LSI controller	2.0(4c)
CSCut37666	In the JBOD mode, after creating the precision boot order for the HDDs connected to the Cisco 12G Modular SAS Pass through controller, the HDDs do not appear in the created order. This issue applies to LSI controllers with JBOD capability.	Use F6/Setup Boot order control for controlling the System boot order	2.0(4c)

LOM

Defect ID	Symptom	Workaround	First Affected Release
CSCun71765	The 10GE LOM port (X540 based) flaps when the host reboots while the CIMC is in Shared LOM 10G network mode. This event may drop connections to the CIMC including the Virtual Media and vKVM. • CIMC network mode is ?Shared LOM 10G? • Host reset 10GE LOM PHY. Usually happens on host reboot, driver load/unload or speed change	Do not use Shared LOM 10G network mode if using Virtual Media or vKVM during host boot.	2.0(4c)

HUU

Defect ID	Symptom	Workaround	First Affected Release
CSCus94537	HDD firmware update using HUU takes time as the HDD firmware is updated sequentially. This increases the time to upgrade a server which has many HDD	None	2.0(3d)

LSI

Defect ID	Symptom	Workaround	First Affected Release
CSCun50408	Creating VD from StorCli and WebBIOS, the default disk policy shown after creation is inconsistent in different UI. MegaRAID Storage Manager shows Unchanged and StorCli shows "Disk's default"	None. Both Unchanged and Disk's Default means the same in this case. Cisco supported Drives have **disk cache policy = Disabled** so in this case the Disk's Default or Unchanged refer to the same indicating the Disk cache is disabled.	2.0(4c)
CSCuq35761	LSI applications such as StorCli and MSM and CIMC Storage management allows JBOD with Operating system or File system to be converted to Unconfigured Good drives without meaningful error message indicating there could be data loss in such cases.	Users should be aware that there is going to be data loss when JBOD which has OS or File system is converted to Unconfigured Good. LSI Applications like MSM and StorCli prompt users with "Are you sure" message so users need to be careful to understand there will be data loss in such cases if they chose to convert JBOD with OS or File system to Unconfigured good drives. CIMC storage management allows JBOD to be converted to Unconfigured Good without any Warning Pop-Up message. Again users need to be make sure that there is no OS or Filesystem when they choose to convert JBOD to Unconfigured Good drives.	2.0(4c)

Release 2.0(2c)

The following defects are open in Release 2.0(2c):

Cisco IMC

Defect ID	Symptom	Workaround	First Affected Release
CSCuq56061	The WebUI stops responding when BIOS/CMC is updated using Internet Explorer 10.0 browser client.	Launch the WebUI using any other version of Internet Explorer other than 10.0 or use any other browser client.	2.0(2c)

BIOS

Defect ID	Symptom	Workaround	First Affected Release
CSCuq15528	In the legacy boot mode, a few boot options do not appear in the menu or boot override page. This is an intermittent issue and happens when there are multiple boot options with SATA/RAID connected and UEFI boot options are disabled in the boot options.	If you want to boot from a particular option which does not appear on the menu or the override options, run the policy from Cisco IMC. Or. Press F2 and set the device as the first boot device. All the devices will be listed correctly on the boot options page.	2.0(2c)
CSCup19648	You may see intermittent I/O timeout when the virtual drives are configured in Cached-IO mode. This is limited to virtual RAID volumes created in Cached-IO mode to take full advantage of the RAID Cache and to reduce the drive speed overhead and keep using slow drives. When the virtual drives are created in the Cached-IO mode set, and since the virtual drives are inconsistent, background initialization happens to make the virtual drives consistent. At this time, if the host I/Os are issued to load the drives and RAID cache in full load, the I/Os are blocked for short intervals which exceed the host OS expectations of the I/O time and they timeout.	1. Perform a full init of the VD when created. 2. Set the host or application I/O timeout to a higher value.	2.0(2c)
CSCun63438	If the host I/Os are at high loads with continuous write access to the drives, the completion time for the background operations exceeds a month.	Increase the background operation rate to 100%. This reduces the operation time.	2.0(2c)

Release 2.0(3f)

The following defects are open in Release 2.0(3f):

LSI

Defect ID	Symptom	Workaround	First Affected Release
CSCur36216	On the C240 M4 servers, HII may not work on the 9300-8e and 9300-8e controllers and may result in changing the OpROM settings when one of the controller's slot is set to **UEFI Only** mode and the other to **Enabled** or **Legacy** mode.	Set both controller slots to **UEFI Only** in the **LOM and PCIe Slots Configuration** settings.	2.0(3f)

Release 2.0(3d)

The following defects are open in Release 2.0(3d):

Cisco IMC

Defect ID	Symptom	Workaround	First Affected Release
CSCuq11190	Slow network performance between VMs in OVM 3.3.1.	None.	2.0(3d)

BIOS

Defect ID	Symptom	Workaround	First Affected Release
CSCup56423	Actual boot order does not have the information to identify which LUN is assigned to LSI sSATA, LSI SATA, and different HDDs in AHCI mode.	Set the ROM mode option to UEFI only.	2.0(3d)
CSCup51154	The HII interface for 9300 is blank when 9300 external LSI adapter is present and ROM mode option is enabled.	None.	2.0(3d)
CSCuq35131	Correctable error is sometimes displayed in SEL after installing the device driver for the Nvidia K40 adapters.	Reboot the server.	2.0(3d)
CSCun24358	C220 M4 and C240 M4 servers do not reboot on pressing F10 after changing the adapter settings using HII interface from BIOS setup. The servers continues to boot and the new settings do not take effect.	Manually reboot the servers.	2.0(3d)
CSCuq15093	Unable to choose the EFI boot options using the PCHStorage policy device from Cisco IMC, when BIOS boot mode is in EFI and EFI OS is installed in any of the SATA drives.	Press F6 to choose the required EFI boot option to boot from.	2.0(3d)

Release 1.5(1)

Following are the defects that are open in Release 1.5(1):

CIMC

Defect ID	Symptom	Workaround	First Affected Release
CSCue00749	When a RAID controller cannot load its drive configuration, no fault is generated.	Check manually whether drive configuration has been lost.	1.5(1)

Release 1.4(7)

This section lists the open caveats for release 1.4(7):

CIMC

Defect ID	Symptom	Workaround	First Affected Release
CSCud18756	LSI storage controllers with external ports (-8e cards) do not show up in CIMC local storage management.	There is no workaround.	1.4(7)
CSCuc83809	Repeated VIC adapter resets using CIMC Web UI or CLI adapter-reset can cause VIC card to hang.	Do not reset the VIC adapter unless necessary. It should normally never be necessary to reset the VIC adapter manually.	1.4(7)

Known Behaviors

This section lists the known behaviors for the following releases:

Release 2.0(9d)

Following are the known behaviors for Release 2.0(9d):

BIOS

Defect ID	Symptom	Workaround	First Affected Release
CSCux72847	PXE boot from the second 10 GE LOM port does not work. This issue may occur when the PXE boot is configured to boot from the second 10GE LOM port, and SAS controller Option ROM is also enabled and loaded.	Disable the SAS controller or LOM 0 (1GE) Option ROMs to free up enough space to load both the 10GE Option ROMs.	2.0(9b)

External LSI Controllers

Defect ID	Symptom	Workaround	First Affected Release
CSCuu56166	On the C3260 M3 server, after you perform expansion or raid-level migration operations Virtual Drives (VD) do not display the updated size.	Complete the following steps: **Step 1** Unclaim the disk from usage by powering off all the virtual machines before running the following command: ~ *esxcli storage core claiming unclaim ?t device ?d naa.xxx* **Step 2** Ensure that the file naa.xxx disk is not located under **/vmfs/devices/disks** **Step 3** Reclaim the disk again using the following command:~ *esxcli storage core adapter rescan ?A vmhbaX* **Step 4** Check whether or not the disk is added back with the new size.	2.0(7d)

Release 2.0(9c)

Following are the known behaviors for Release 2.0(9c):

BMC

Defect ID	Symptom	Workaround	First Affected Release
CSCun99348	When virtual KVM is disabled, the **Play Recording** action on the **Troubleshooting** screen fails.	Enable **Virtual KVM** on the **Remote Presence** tab.	2.0(1)
CSCuv08978	Management port MTU cannot be configured due to hardware limitations.	None.	1.5(4)
CSCuj36245	After restoring to factory defaults, when you import the BIOS tokens on the target machine, the values remain unchanged.	Power on the target machine and try the import operation after the BIOS post is completed.	2.0(1)

BIOS

Defect ID	Symptom	Workaround	First Affected Release
CSCun99297	Cannot select specific USB thumb drive under boot option priorities.	UseF6 from the boot selection menu to select specific USB drives.	2.0(1)
CSCuo08591	System becomes unresponsive in the POST after the SD card removal when the host is powered on.	1. AC cycle the system after removing the SD card. 2. Reinsert the SD card.	2.0(4c)
CSCun91835	Boot order varies when enabling or disabling the Option ROM.	None.	2.0(1)
CSCur61234	In the secure boot mode, a security violation error is triggered. This issue could also occur while trying to perform an AC power cycle, when the power characterization is enabled in the UEFI secure mode.	None.	2.0(4)

LSI

Defect ID	Symptom	Workaround	First Affected Release
CSCum87051	Random behavior of system freeze at boot @ BIOS POST screen for around 2 minutes followed by "Waiting for Battery Pack" message on LSI Ctrl-R BIOS for another 2 minutes. This only happens if there is a learn cycle pending for the supercap and the host is restarted (either AC/DC/reboot). At all other reboot/power cycle, this does not happen.	There is no work-around at this time.	2.0(4c)
CSCuu86314	On M4 servers, the iMR (Zero-memory) RAID Controller supports up to 32 virtual drives, but the command to create virtual drives in a single drive group allows only 16 virtual drives.	None. The RAID controller supports 32 virtual drives across all drive groups and only 16 drives in a single drive group.	2.0(6)
CSCum87232	CIMC storage BBU info shows the Pack Energy value below the design capacity. This is also seen in the **storcli /cX /cv show all** command. On the current shipping 6G SAS RAID Controllers with Supercap, the Pack energy is always above the design capacity. This is a change in behavior confuses the user and makes the user think the supercap has or is going bad and gets a worrisome situation of the data integrity.	There is no work-around at this time. This is just a display issue and does not impact the actual functionality or data integrity.	2.0(4c)
CSCuw69844	On the servers with 2008M-8i, the VMware ESXi 5.5 Update 1 install fails while loading the installer.	**Step 1** Go to System BIOS (Press F2) **Step 2** Choose PCI configuration > MMCFG **Step 3** hange the value from Auto to 2 GB **Step 4** Change the value of Memory Mapped IO above 4G to Enabled **Step 5** Save and reboot the system.	2.0(7)

External Controllers

Defect ID	Symptom	Workaround	First Affected Release
CSCuw42070	The MegaRAID Storage Manager fails to detect a new 6TB HGST drive with yellow amber LED. This happens when the drive is corrupted and displays an SAS link failure.	None.	2.0(8)
CSCuw55045	SAS Flash and MSM utilties are unable to downgrade the IT firmware if the Network Virtualization (NV) data version changes. To downgrade the NV data version, use the FlashOEM tool bundled with the Host Upgrade Utility (HUU).	Do not use SAS Flash and MSM utilities to downgrade the IT firmware. Use these to only use the HUU.	2.0(9c)
CSCuw09414	Powering off Virtual machines (VM) with the Virtual Graphics Processor unit (vGPU) takes 90 to 120 seconds in VMware ESXi 6.0.	Power off smaller number of VMs at one time.	2.0(4c)

External OS

Defect ID	Symptom	Workaround	First Affected Release
CSCuw80507	According to the knowledge base at https://access.redhat.com/solutions/21322, using IPMI commands on the Red Hat Enterprise Linux results in the over use of CPU resources.	Add the following command at the end of the kernel line in /etc/grub.conf: *ipmi_si.kipmid_max_busy_us =<time in microseconds>*	1.5(2)

Release 2.0(8d)

Following are the known behaviors for Release 2.0(8d)

BMC

Defect ID	Symptom	Workaround	First Affected Release
CSCul16923	The fault code F0181 is raised by CIMC when the local disk is removed while the rack server was in use. This fault is visible through CIMC WebUI, CLI and SNMP interfaces. But the same fault is not retrievable through the XMLAPI interface.	None.	1.5(4)
CSCuj40520	Upgrading firmware with Host Upgrade Utility (HUU) can cause temporary storage faults while the upgrade is in progress. These faults are benign and will clear once the upgrade is complete.	None.	1.5(4)

Cisco IMC

Defect ID	Symptom	Workaround	First Affected Release
CSCuq23984	Cisco IMC does not respond during OOB update of utility virtual drives (SCU/HUU/Drivers) on flex flash.	It is recommended that host reboot actions are not performed while running OOB update of utility virtual drives on flex flash.	2.0(3d)

Utilities

Defect ID	Symptom	Workaround	First Affected Release
CSCuu38979	On the C3160 server, HUU may not discover or upgrade the SAS expander.	AC power cycle the server and then boot the HUU.	2.0(6d)

Web Management

Defect ID	Symptom	Workaround	First Affected Release
CSCuv63101	User gets logged out of the Web UI occasionally, after upgrading the Cisco IMC firmware from 2.0(6) to 2.0(8). This happens when browser cookies are not cleared.	Clear the browser cookies.	2.0(7)

BIOS

Defect ID	Symptom	Workaround	First Affected Release
CSCun00121	Cannot create boot option for partitions in SD card.	None.	2.0(1)

CSCul46981	On the C24 M3 server, hardware error messages such as the ones shown below are displayed while booting to Linux. This happens on unused CPU ports.
	`{1}[Hardware Error]: Hardware error from APEI Generic Hardware Error Source: 1 ?`
	`{1}[Hardware Error]: APEI generic hardware error status`
	`{1}[Hardware Error]: severity: 2, corrected`
	`{1}[Hardware Error]: section: 0, severity: 2, corrected`
	`{1}[Hardware Error]: flags: 0x01`
	`{1}[Hardware Error]: primary`
	`{1}[Hardware Error]: fru_text: CorrectedErr`
	`{1}[Hardware Error]: section_type: PCIe error`
	`{1}[Hardware Error]: port_type: 0, PCIe end point`
	`{1}[Hardware Error]: version: 0.0`
	`{1}[Hardware Error]: command: 0xffff, status: 0xffff`
	`{1}[Hardware Error]: device_id: 0000:80:02.3 ?`
	`{1}[Hardware Error]: slot: 0`
	`{1}[Hardware Error]: secondary_bus: 0x00`
	`{1}[Hardware Error]: vendor_id: 0xffff, device_id: 0xffff ?`
	`{1}[Hardware Error]: class_code: ffffff`
		None. Ignore the error messages.	2.0(4c)

Defect ID	Symptom	Workaround	First Affected Release
CSCul84767	The system locks up while running memtest86 from memtest.org. The problem is seen only with memtest86 from memtest.org.	Do no use memtest86 from memtest.org on C460 M4. Please use PassMark or any other memory test tools that have the support for IvyBridge EX platforms instead.	2.0(4c)
CSCum79756	On the C220 M3 server, occasionally you cannot select a boot device from F6 screen.	None.	2.0(1)
CSCum85447	The CDN feature for Red Hat Enterprise Linux OS does not work as expected on the LOM ports.	None.	2.0(4c)
CSCun02543	Port number attributes are missing in the actual boot order for the FC and FCOE cards.	None.	2.0(1)

VMWare OS

Defect ID	Symptom	Workaround	First Affected Release
CSCus51007	While installing VMware ESXi 5.5 Update 2 on Cisco FlexFlash, installation fails with the following error message: *"Error: Can't have a partition outside the disk! Unable to read partition table for device"*	Install VMware ESXi 5.5 Update 1 and then upgrade to update 2. Or Install VMware ESXi 5.5 Update 1, reboot the system and install ESXi 5.5 Update 2 for a clean installation. Or If it is a UCS Manager integrated UCS C-Series server then clean-up the FlexFlash and install VMware ESXi 5.5 Update 2.	2.0(3f)

External LSI Controllers

Defect ID	Symptom	Workaround	First Affected Release
CSCut92393	On the C240 M4 servers, on rare occasions, the Cisco 12 Gigabyte SAS Modular RAID Controller displays an error when you try deleting a virtual drive.	None.	2.0(6)
CSCuv34371	When creating new virtual drives of any RAID type, the write cache policy defaults to 'write through' even with a fully functional BBU or super-capacitor battery. When a BBU is present, the default write cache policy should be 'write back with good BBU'. This happens on the C240 M4 and C220 M4 servers with 12 gigabyte SAS mezzanine RAID controllers.	In the standalone mode, on the Ciso IMC storage tab of the Web UI, edit the virtual drive to set the write caching policy to 'write back with good BBU'. You can also modify the setting using the LSI command line option **rom config utility**.	2.0(3d)
CSCuv36714	The MegaRAID Storage Manager displays consistency check errors on RAID 1 volume in Windows. This happens when you try writing data to the drive 20 to 30 minutes after a consistency check (which appears to be normal).	This is a known Microsoft limitation. For more information, see https://support.microsoft.com/en-us/kb/2713398	2.0(4c)

External GPU Expanders

Defect ID	Symptom	Workaround	First Affected Release
CSCuv04922	On the C240 M4 server, A "PCI Resource Error" message is seen with the Magma Chassis GPU Expander configuration due to a CPU I/O space limitation which supports a maximum of 64K. This happens when all or some of the PCI slots are occupied by different third party adapters.	For Nvidia Grid K1 configuration: (where one Nvidia Grid K1 is internally connected on the C240 M4, and two Nvidia Grid K1 adapters are externally connected through the Magma Chassis) • Local Boot: Cisco 12 Gigabyte SAS Modular RAID controller (HBA slot), Intel I350 LOM (L slot), Nvidia Grid K1 (slot2), Magma Expander HBA (slot5), Teradici APEX2800(slot6), Fusion IO drive(slot4) • iSCSI Boot: Intel i350 LOM (L slot), Nvidia Grid K1(slot2), Magma Expander HBA (slot5), Teradici APEX2800(slot6), Fusion IO drive(slot4) • SAN Boot: CISCO VIC1227(MLOM), Nvidia GRID K1 (slot2), Magma Expander HBA (slot5), Teradici APEX2800(slot6), Fusion IO drive(slot4) For Nvidia Grid K2 configuration: (where one Nvidia GridK2 is internally connected on the C240 M4, and four Nvidia Grid K2 adapters are externally connected through the Magma Chassis) • Local Boot: CISCO 12G SAS Modular RAID controller (HBA slot),Intel I350 LOM (L slot), Nvidia GRID K2 (slot2), Magma Expander HBA (slot5), Teradici APEX2800(slot6), Fusion IO drive(slot4) • iSCSI Boot: Intel i350 LOM(L slot), Nvidia Grid K2 (slot2), Magma Expander HBA (slot5), Teradici APEX2800(slot6), Fusion IO drive(slot4) • SAN Boot: CISCO 1227 SAN (MLOM), Nvidia Grid K2 (slot2), Magma Expander HBA (slot5), Teradici APEX2800(slot6), Fusion IO drive(slot4)	2.0(4c)

Release 2.0(7d)

Following are the known behaviors for Release 2.0(7d):

Cisco IMC

Defect ID	Symptom	Workaround	First Affected Release
CSCuv34476	On the C3260 M3 server, KVM fails to launch and displays the following message: `"Unable to Launch the application"`. This happens after swapping or changing a CMC and making it active or master.	Regenerate the certificate using the Web UI or CLI and reboot the CMC.	2.0.7(d)
CSCuv28734	On the C3260 M3 server, boot or crash file download fails with a Network error, when you use the Chrome 43 version browser for downloading.	Use other browsers or use Chrome version 42.	2.0.7(d)
CSCuu50850	On the C3260 M3 server, you cannot establish an IPMI session to a BMC when BMC is reset to factory default.	Reconfigure user using active CMC.	2.0.7(d)
CSCur77980	On the C3260 M3 server, unable to configure users after resetting CMC to factory defaults. This issue occurs when you attempt to configure a user with a different index number after the reset.	Use the same index number that was used before the reset to configure a user.	2.0.7(d)
CSCuu43406	On the C3260 M3 server, the server does not respond and displays an error message when the GUI is idle for a few minutes. This happens when you use Chrome Version 41.	Use other browsers or use Chrome version 42.	2.0.7(d)
CSCuu43330	On the C3260 M3 server, unable to login to Web UI when the login screen is left idle for a few minutes. This happens when you use Crome Version 41.	Use other browsers or use Chrome version 42.	2.0.7(d)
CSCur60690	On the C3260 M3 server, configuring a user using the CLI or Web UI fails with the following message: **“Error: User with same name <username> already exists.”** When a user is configured using the IPMI on BMC the local user, database may not sync with the active CMC. Hence when the same user is configured with a different index on active CMC this error occurs.	Check for the user index number on the local user database on BMC using IPMI and use the same index number to configure the user using the active CMC’s CLI or Web UI.	2.0.7(d)

External LSI Controllers

Defect ID	Symptom	Workaround	First Affected Release
CSCuu36101	On the C3260 M3 server, MegaRAID card does not support raid level migration when the card has maximum allowed number of virtual drives created on it. **Note** This is a limitation of the MegaRAID software stack that requires a temporary or ghost VD to do the RLM operation.	Do not create maximum number of allowed virtual drives.	2.0.7(d)

Release 2.0(6d)

Following are the known behaviors for Release 2.0(6d)

External Controllers

Defect ID	Symptom	Workaround	First Affected Release
CSCui64842	Hardware configuration settings of Broadcom 57810 adapters reset after firmware update. This issue happens on all 57810 adapters. The following settings are reset: • DCB Protocol • SRIOV • Number of VFs per PF	Reconfigure the settings.	1.5(3)
CSCuu35160	While downgrading or upgrading LSI firmware, Cisco IMC log reports several CMD over OOB errors. This is expected behavior and the error messages are due to the controller being briefly unresponsive on out-of-band during firmware update.	None.	2.0(3e)
CSCuu36101	MegaRAID card does not support raid level migration when the card has maximum allowed number of virtual drives created on it. **Note** This is a limitation of the MegaRAID software stack that requires a temporary or ghost VD to do the RLM operation.	Do not create maximum number of allowed virtual drives.	2.0(6d)

VIC

Defect ID	Symptom	Workaround	First Affected Release
CSCuu56903	Data traffic between VMs where the vNICs have the same uplink on VIC 1225, could not be switched upstream.	Assign vnic0,vnic1 pinned to Uplink-1 and vnic6,vnic7 to Uplink-2. **Note** This may affect the physical uplink redundancy.	2.0(3e)

Release 2.0(4c)

Following are the known behaviors for Release 2.0(4c):

Cisco IMC

Defect ID	Symptom	Workaround	First Affected Release
CSCut76388	For the C220 M4 and the C240 M4 servers, power consumption with 1400W PSUs fluctuates when power cap enabled and the power cap value is set towards a lower value within the allowed range.	Set a higher power cap value. For example, if the allowed power cap range is 350W-650W, then set a value higher than 500W.	2.0(4c)
CSCul29595	Mounting an ISO for Network ISO Boot or Firmware Update from a folder depth of 2 or more will result in an error.	Use a folder with single depth to mount the ISO.	1.5(3)
CSCuh52878	LSI Nytro MegaRAID8110 controllers do not show up in CIMC storage display	None. This is intentional behavior. Due to some differences in the display and management of Nytro controllers, their support will be added in a later CIMC release.	1.5(2)
CSCum58699	After you upgrade CIMC from version 1.4(5e) to 1.5(4) or higher, occasionally CIMC and the host fail to detect the HV partition of Flex Flash. This results in the system boot failure to ESX OS running on HV partition of Flex Flash.	Upgrade CIMC from 1.4(5e) to 1.5(2) and perform a reset of the Flex controller to load the latest firmware for Flex Flash. Then upgrade CIMC from 1.5(2) to 1.5(4) and perform a reset of the Flex controller which again loads the latest Flex Flash firmware. To perform the Reset of the flex controller, please refer to the User Guide.	1.5(4)
CSCum60563	Firmware version 1.5(4) does not recognize flex flash SD Card properly.	To recognize the SD card correctly, complete these steps: 1. Install the SD Card. 2. Downgrade the firmware to version 1.5(3d) 3. Synchronize the card with SCU 4. Upgrade the firmware to version 1.5(4).	1.5(4)
CSCuq39610	The following error appears while configuring SD cards: `ERROR_METADATA_EXSISTS`	Remove and insert the SD card and re-configure. If the error persist, replace the SD card.	2.0(3d)
CSCug67576	CIMC CLI and WebUI allow provisioning of usNIC and VMFEX at the same time, but both features are not supported simultaneously.	Avoid provisioning usNIC and VMFEX at the same time. Use each feature one at the time.	1.5(3)
CSCue52142	Onboard network devices (LOM) does not get enabled on doing CMOS reset.	Rebooting the system again one more after CMOS clear will enable the onboard network devices.	1.5(7)

Defect ID	Symptom	Workaround	First Affected Release
CSCti17492	When updating CIMC firmware through TFTP, if the image file is corrupted, the update status indicator is the same as if the file does not exist.	Be aware that this error message can actually indicate either of the above conditions and should make sure that the file both the exists, and is a valid firmware image for the CIMC being upgraded.	1.4(6)
CSCtz77929	The SEL event is not logged in the OS Watchdog timer expiration.	None.	1.4(6)

BIOS

Defect ID	Symptom	Workaround	First Affected Release
CSCui32274	UEFI PXE boot is not working in C-series servers.	None. This feature is currently not supported.	1.5(2)
CSCun02516	For Intel X520 cards the type of FC volumes are shown as ISCSI instead of SAN.	None.	2.0(1a)
CSCur74413	Watchdog timer policy values change while upgrading or downgrading the BIOS firmware between 2.0(3d) and 2.0(3f) versions.	Reset the values after the BIOS firmware upgrade or downgrade.	2.0(3d)
CSCuo11185	The UEK R3 or higher kernel does not boot, if the server has any one of the following adapters LPe11002, LPe12002, LPe16002, QLE2462, QLE2562, and QLE2762.	Disable the respective PCI slot where the EMULEX/QLogic adapter is present in the server using the BIOS Setup Menu. Save the settings and reboot the server.	2.0(1)
CSCut05524	TxT getting disabled after few reboots.	Use the TPM Clear command in the BIOS to reset the counter and start over again.	2.0(3e)
CSCuq72696	LEDs at the back of the C3160 server, next to the SSD drive slots, do not work. The SSD drives are connected to the SATA controller and configured in AHCI Mode. When the SSDs are accessed, there is the does not LED blink to indicate the IO activity on the SSD and also the Fault and Locate LED do not work.	Use the Intel RSTe driver for the supported Operating systems to operate the activity LEDs and use the Intel tools to use the Locate LED.	2.0(2c)

LSI

Defect ID	Symptom	Workaround	First Affected Release
CSCus54600	LSI9271-8i shows Storage Controller Inoperable? fault in UCSM (PMU Fault present in event log)	Replace the LSI9271-8i adapter	2.0(3i)
CSCus68862	Ubuntu (all versions available today) does not have the inbox drivers for any of the IT-based adapters.	None	2.0(3d)
CSCud27042	RAID CD-ROM Drive appears in the Boot Options. Booting to this option will give blank screen.	This is an invalid option and is not usable and should be ignored.	1.5(1)

VIC

Defect ID	Symptom	Workaround	First Affected Release
CSCut78400	Resetting a VIC adapter to default configuration, using the CLI command adapter-reset-defaults, may result in changing of the default MAC addresses. This may require configuration of the DHCP and OS to correct the changes to the default MAC addresses. The occurs for releases 2.0(4) and later due to moving of the default MAC address range to address certain VIC relates issues.	None.	2.0(4c)
CSCue56950	In VIC 1225T, when the system is booted in the 1Gbps mode, the MAC sometimes does not detect the link. PHY seems to detect the link. But the MAC shows a link down error.	Reset the switch port. Both Phy and Mac will show the link as up after a switch port reset.	1.5(1)

External OS

Defect ID	Symptom	Workaround	First Affected Release
CSCuj10535	CIMC Storage, Storage Log will list many "Unexpected sense: Encl PD 10 pathd7fe00bd, CDB: 1a 00 08 00 ff 00, Sense: 5/00/00". These same events will also show up in /var/log/messages file	VMware seems to treat all storage devices the same way, regardless of whether they are SAS disks or just enclosures. The messages you are seeing means that the host (ESX) was sending mode sense commands to the enclosure and the enclosure does not give a valid response because mode sense commands are not a command that should be sent to an enclosure. So the unexpected sense messages from the enclosure are benign info messages. There is a way to "disconnect" the enclosure from the viewpoint of ESX. It should not have an adverse impact as the enclosure is not a usable storage device. For now, you can try the following: 1. Open the ESX console. 2. Run this cmd: "esxcli storage core device list" and look for the device that has "Enclosure" in its name. 3. Note down it's identifier, usually starting with naa.... 4. Run this cmd: "esxcli storage core device set --state=off ?d naa.x" but replace naa.x with the your device identifier. This should eliminate the messages from the vmkernel.log and CIMC Storage log.	1.5(1)
CSCuq75761	During installation of Red Hat Enterprise Linux 7, SAN LUNs mapped will not be visible. Server experiences kernel panic, when Red Hat Enterprise Linux 7 OS is installed on local storage and a SAN LUN is mapped.	No workaround. A driver update disk may be available later to address this issue.	2.0(2c)

External Controllers

Defect ID	Symptom	Workaround	First Affected Release
CSCuq43129	OL 5.9 and OL 5.10 operating systems do not recognize QLE2672 SAN LUN during installation.	None.	2.0(3d)
CSCuq60947	Citrix XenCenter 6.2 configured VM instances fails to boot when driver is passed and vGPU is disassociated.	Perform the following steps to disassociate vGPU from VM instance: 1. From the VM console, choose Start > Control Panel > Hardware and Sound > Device Manager > Display Adapters > Nvidia K1 or K2. 2. Right click and choose **Uninstall**. 3. Power off the VM from XenCenter console. 4. In th eXenCenter console, open VM Properties. 5. Right click the GPU in left column and choose GPU type: > None. 6. Boot up the VM.	2.0(3d)

Web Management

Defect ID	Symptom	Workaround	First Affected Release
CSCue76985	Occasionally WEB UI shows Reset link for UCS VIC P81E card.	None. Refresh the Web UI.	1.5(1)

Hardware

Defect ID	Symptom	Workaround	First Affected Release

CSCui82547	When AC Power is removed the following SEL logs may be recorded.
	`"Power Supply input out-of-range, but present was asserted"`
	`"Power Supply input out-of-range, but present was deasserted"`
		No work around required; this does not affect negatively operation of the unit.	1.5(2)

Release 2.0(3d)

Following are the known behaviors for Release 2.0(3d):

BIOS

Defect ID	Symptom	Workaround	First Affected Release

CSCuq99268	For the ESXi 5.5 and later updates, you can install the OS on a disk behind Cisco 9300 HBA using the native inbox driver (lsi-msgpt3). However, lsi_msgpt3 is not fully supported. Therefore it must be disabled and the async drivers must be installed.	After installing the OS, complete the following steps to install the mpt3sas drivers:
		1. **#esxcli software vib install -v file:/{FULL_PATH_TO_YOUR_VIB(...xxx.vib)}**
		2. Disable lsi-msgpt3 (native driver) using the following command: **#esxcfg-module ?d lsi-msgpt3**
		3. If the system is restarted, as a rule, the mpt3sas driver should take over. Verify this using the following command: **~ # esxcli storage core adapter list:**
		`HBA Name Driver Link State UID Description`
		`-------- ------- ----------- ----------`
		`vmhba0 ahci link-n/a sata.vmhba0 Intel Corporation Patsburg 6 Port SATA AHCI ..`
		`vmhba1 mpt3sas link-n/a sas.xxxxxxx LSI / Symbios Logic SAS3008 PCI-Express ..`
		`vmhba32 ahci link-n/a sata.vmhba32 Intel Corporation Patsburg 6 Port SATA AHCI ..`
		`vmhba33 ahci link-n/a sata.vmhba33 Intel Corporation Patsburg 6 Port SATA AHCI ..`
		`vmhba34 ahci link-n/a sata.vmhba34 Intel Corporation Patsburg 6 Port SATA AHCI ..`
		`vmhba35 ahci link-n/a sata.vmhba35 Intel Corporation Patsburg 6 Port SATA AHCI ..`
		`vmhba36 ahci link-n/a sata.vmhba36 Intel Corporation Patsburg 6 Port SATA AHCI ..`
		4. If the driver name is still listed as lsi-msgpt3 for the above command, try removing (instead of disabling) lsi-msgpt3 using the following command: **#esxcli software vib remove ?n lsi-msgpt3**
		5. Restart the system.
			2.0(3d)

CSCup89033	The Power Monitoring graph is displayed on top of all pages if the Power Monitoring page is loading and you navigate to any other page.	Navigate back to the Power Monitoring page and wait till the page loads and then navigate to any other page.	2.0(3d)

Defect ID	Symptom	Workaround	First Affected Release
CSCuq00837	On C220 M4 and C240 M4 servers, TPM fails to initialize after installing ESXi 5.1 U2 Patch 05, and enabling and activating TPM and TXT.	No workaround.	2.0(3d)
CSCuq04009	ESXi installer does not detect any SD card in xHCI mode.	Disable USB xHCI mode in the BIOS.	2.0(3d)
CSCuo28585	HII Drive Management and Enclosure Management menu displays only one port/connection (0-3) and not the other (4-7) when an expander is connected to a controller through two ports.	No workaround.	2.0(3d)
CSCuq14862	With inbox IGB driver in SLES 11 SP3, ethtool shows incorrect firmware version for Intel i350 LOM after installing the drivers for Intel i350 LOM from 2.0(3d) drivers ISO(5.2.5).	Update the igb version to 5.2.5. Unload and load the igb.	2.0(3d)
CSCuq24196	After installing the Windows Server 2012 to an iSCSI LUN, few network adapters display a yellow bang in the device manager (code 10) with the following description: `This device is not working properly because Windows cannot load the drivers required for this device` This occurs only on the NICs that are used for iSCSI boot.	Perform one of the following: A hotfix is available for Windows 8 and Windows Server 2012. Run this fix in the Windows OS image and then perform iSCSI installs. For more information on the fix, see http://support.microsoft.com/kb/2822241 OR Complete the following steps: 1. Un-install the drivers for the device which is showing yellow bang without deleting the device. 2. Re-install the drivers. 3. Restart the server.	2.0(3d)
CSCup82749	Windows 2K12 R2 iSCSI Boot with Intel i350 and Pinecrest adapters displays BSOD when it is installed using the inbox drivers.	While installing the W2K12 R2 iSCSI, skip the Intel drivers from the drivers ISO. Reboot the server once the installation is finished.	2.0(3d)
CSCuq92331	Bandwidth test fails while running synthetic benchmarks, like the nvqual. This happens when the processor power management is enabled.	Disable the processor power management option using the BIOS setup.	2.0(3e)
CSCuo05774	Setting the boot mode to UEFI or Legacy requires two reboots for the change to reflect.	Reboot the server twice.	2.0(3e)
CSCul04884	Server enters BIOS setup menu when the boot devices that are configured in the service profile are not found. This impacts only C-series servers that are managed by Cisco UCS Manager.	None.	2.0(3e)
CSCuj28644	UEFI PXE boot or UEFI iSCSI boot does not work when the boot mode is set to UEFI.	Use the legacy boot mode when using PXE or iSCSI boot.	2.0(3e)

Cisco IMC

Defect ID	Symptom	Workaround	First Affected Release
CSCuo26946	When you upgrade from releases 1.5(x) to 2.0(x) or downgrade from 2.0(x) to 1.5(x) or migrate from legacy to precision boot order, and if the SD card has four partitions, BIOS boot order mismatch occurs for the SD cards.	No workaround. You have to re-configure the boot order.	2.0(3d)
CSCuq30109	The Cisco IMC bin file upgrade from release 1.5(x) to 2.0(3d) using Web UI fails in both C24 and C240 M3 with the following error message: `HTTP file Too big`	To upgrade from 1.5(x) to 2.0(3d) use **RemoteUpdate** (TFTP/HTTP/SFTP) or HUU (recommended).	2.0(3d)
CSCuq32910	When the server boots with 2.0.3d release firmware, it fails to update the HUU firmware version and displays the current version of the Emulex OCe14102/Oce11102 as **Not**.	Reboot the server.	2.0(3d)

External Controller

Defect ID	Symptom	Workaround	First Affected Release
CSCup87719	i350 adapter with default factory configuration dispatches the boot protocol Option ROM only for the first port. It does not dispatch Option ROM for the remaining 3 ports of the i350 card.	Enable the boot option for required ports using boot Util.	2.0(3d)

Release 2.0(1b)

Following are the known behaviors for Release 2.0(1b):

Cisco IMC

Defect ID	Symptom	Workaround	First Affected Release
CSCup49368	When you click **Update All** to upgrade from version 1.5.7 to 2.x using the **Cisco Host Upgrade Utility** the chassis firmware does not get updated.	Using the Web UI, complete these steps to upgrade the chassis firmware: 1. In the **Navigation** pane, click the **Server** tab. 2. On the **Server** tab, click **Summary**. 3. In the **Actions** area, click **Power Off Server**. 4. Click **OK** to power off the server and updates the system firmware. Using the CLI, complete these steps to upgrade the chassis firmware: 1. Server# **scope chassis** 2. Server /chassis # **scope firmware** 3. Server /chassis/firmware # **show detail** Firmware update required on some components, please run update-all (under chassis/firmware scope). 4. Server /chassis/firmware # **update-all**	2.0(1b)
CSCup58906	When you downgrade to 2.0(1a), Cisco IMC Web UI displays warning messages and critical events.	A/C Power cycle the sever.	2.0(1b)

Release 2.0(1)

Following are the known behaviors for Release 2.0(1):

Cisco IMC

Defect ID	Symptom	Workaround	First Affected Release
CSCth84883	The LED sensor color is red or amber or blue (or any supported color) even though the LED state is set to OFF.	Ignore the LED color when the LED state is set to OFF.	2.0(1)
CSCtt08424	Cisco IMC power capping is not supported on VMware ESXi 5.0.	When Cisco IMC is upgraded to 1.4(2), the Cisco IMC will automatically disable power capping. Power capping must manually be re-enabled to use it.	2.0(1)
CSCun97225	When you downgrade from release 2.0(1a) to a 1.5(x) release, you see only seven platform event filters instead of 12 filters.	Restore factory default settings or run the Cisco OEM function command on the ipmitool raw **0x36 0x03 0xAA**.	2.0(1)
CSCuo40835	When you downgrade from release 2.0(1a) to a 1.5(x) release, if you have set the SNMP port value to anything other than the default value (161), you cannot reset this number.	Before downgrading, set the SNMP port to 161 or after downgrading restore factory defaults.	2.0(1)
CSCun10320	Cannot upgrade Cisco IMC firmware version from 1.5(3d) to 2.0(1a) using FTP.	Use a browser or SCP client upgrade.	2.0(1)
CSCum70086	Downloaded DVR player fails to play offline for Java versions 6 and below on Windows OS.	Edit and update the **script_win.bat** file with the correct Java version.	2.0(1)
CSCun66062	While using the CLI to define the precision boot order, if multiple devices' orders are changed by scoping to an individual device, the final order of the devices may not appear as what it was changed to.	Use the **rearrange-boot-device** command to set the boot order for multiple devices. Or use the Cisco IMC Web UI.	2.0(1)
CSCum26002	A delay occurs while pinging to check the connectivity to the DNS servers before a DDNS update is triggered.	You can manually check the connectivity to the preferred and alternate DNS servers for both the IPv4 and IPv6 addresses the using the ping option available in this release.	2.0(1)
CSCun11979	Cannot configure legacy boot order using the Cisco IMC Web UI.	Use CLI or XML API.	2.0(1)
CSCuo71634	After upgrading the Cisco IMC firmware and activating secure boot mode, when you immediately try to reboot Cisco IMC, it does not respond.	After the upgrade, reboot Cisco IMC after about 10 minutes.	2.0(1)

BIOS

Defect ID	Symptom	Workaround	First Affected Release
CSCug79131	**Symptom** Software RAID(SWRAID) setup option is visible in the BIOS setup menu for C24 M3 24 HDD Model Servers even though it is not supported feature in this model.	By default this option is set to disabled. Do not set this option to enable, as it would cause undefined behavior if set to enabled.	1.5(2)

Release 1.5(7)

Following are the known behaviors for Release 1.5(7):

CIMC

Defect ID	Symptom	Workaround	First Affected Release
CSCul62033	During heavy I/O transactions on the SD card, read errors may be seen in CIMC.	Use Cisco FlexFlash 3.0 cards	1.5(7)
CSCua94308	There is no CIMC notification of Closed Loop Thermal Throttling (CLTT) when it occurs. CLTT happens automatically when the DIMM temperature crosses the UC (upper critical) temperature.	None.	1.5(7)
CSCuo18891	UCScfg_X64.exe batch - ignore set t.txt command displays “Error: Invalid Number of Arguments” error message, when the input file is in Unicode format.	Use ANSI format input file. (	1.5(7)
CSCud84978	SEL has memory entries, but no entries are seen in the fault page. Cisco UCSM fault codes are unavailable for these SEL.	None. SEL has to be used to decode the memory related events.	1.5(1)

OS

Defect ID	Symptom	Workaround	First Affected Release
CSCun77988	After installation of ESXi in UEFI mode, the OS fails to boot up. The installation completes, but on the subsequent reboot, the server does not boot ESXi OS.	To resolve this issue, complete these steps: 1. Boot to Shell. 2. Determine fsxx (xx is where ESX is installed. It will be typically 0 i.e fs0:) This can be verified by using fsxx:\EFI\Boot\BOOTX64.EFI command. 3. To get the current list of EFI Boot options use, **bcfg boot dump** command. **Note** Save the last boot number for further use. 4. Use the following command to add new Boot Option at position LAST_BOOT_NO + 1. Last parameter in quotes can be any description for this new Boot Option. This is displayed during BIOS F6 menu. **bcfg boot add LAST_BOOT_NO + 1 fsxx:\EFI\BOOT\BOOTX64.EFI "UEFI: ESXi"** 5. Make the newly created Boot Option for ESX as the first by using **bcfg boot mv LAST_BOOT_NO + 4 1** command. Reset the platform by issuing reset command at the shell. Press F6 when BIOS is booting to get into BIOS Boot Selection menu. Verify that newly created Boot Option is displayed. Select this and boot to ESX.	1.5(7)

NVIDIA

Defect ID	Symptom	Workaround	First Affected Release
CSCuo39368	Nvidia GPU cards non functional or erratic behavior on system beyond 1 TB of memory.	This is an Nvidia GPU limiation due to 40 bit addressing on the GPU's. The memory should be 1 TB or less for the GPU's to be functional.	1.5(7)

LSI

Defect ID	Symptom	Workaround	First Affected Release
CSCue88244	Prepare for removal prepares a Hard drive for removal but LED on the HDD does not blink AMBER to indicate the drive is ready to be replaced. This happens only on direct connect C260 M3 configurations.	None.	1.5(4)
CSCui29979	BBU Charging Status shows either Charging or Discharging all the time. This could lead to confusion to customers as Charging or Discharging indicate that battery is not in optimal state.	Customers should use the BBU Status field to determine if the battery is in optimal state. If the BBU status is optimal, it will indicate a good battery. If the BBU status indicates battery needs replacement, then the BBU is bad and needs to be replaced. Charging Status is working as designed and will always indicate Charging or Discharging because Firmware keeps checking the battery charge and ensures that the charge does not fall below the band gap. It charges the battery when it is in lower limits and once it reaches the upper limit of the band, it will stop charging. There can be leakage current which can discharge the battery and bring it back to lower threshold. When this happens, the firmware initiates charging.	1.5(2)

Release 1.5(4)

Following are the known behaviors for Release 1.5(4):

BIOS

Defect ID	Symptom	Workaround	First Affected Release
CSCul36732	SAN boot using Emulex adapters may fail on C-series servers managed by Cisco UCS Manager. This behavior occurs only on servers managed by Cisco UCS Manager.	During the BIOS post, press the hotkey to enter the Emulex Option ROM configuration screen and enable "EDD", save and exit.	1.5(4)
CSCub21433	UEFI OS install is not supported on Software RAID (Onboard SCU controller).	None. Use legacy mode OS installs when using Software RAID.	1.5(4)
CSCtz11862	Continuous beep sound is heard when the system is switched on.	Do not switch on the CIMC and the host simultaneously. Switch on the host 3 minutes after switching on the power supply.	1.5(4)

CIMC

Defect ID	Symptom	Workaround	First Affected Release
CSCuj89681	After moving an SD card to the single partition mode, if you downgrade to releases prior to 1.5(4x), all 4 partitions are visible in the WebUI/CLI.	None.	1.5(4)
CSCuj84718	SD card partition sizes appear as trash values for SCU,HUU and drivers during downgrade.	Upgrade to release 1.5(4x) and create a single partition, and then downgrade to a prior release. The partition sizes then appear to be 2097151 MB.	1.5(4)
CSCuj67995	Changing multiple configuration with Port parameter fails from CIMC configuration only.	Complete the following steps: 1. Set the mode to **Dedicated** and the redundancy to **None**. 2. Save the changes to the system. 3. Set the auto-negotiation field to **Yes**.	1.5(4)
CSCuj52943	In the transition from 4 partition configuration to a single partition, only configuration details are modified. Data on the SD remains intact. So after migrating to a single partition (HV), the HV partition will retain SCU data only if SCU has a valid file system during configuration migration.	After migrating to a single partition (HV) configuration, format and install the required OS on the HV partition.	1.5(4)

CSCul50285	`ucs-c220-m3# scope bios/advanced`
	`ucs-c220-m3 /bios/advanced #`
	`ucs-c220-m3 /bios/advanced # set ConsoleRedir COM_0`
	`ucs-c220-m3 /bios/advanced *# set BaudRate 115200`
	`ucs-c220-m3 /bios/advanced *# set FlowCtrl None`
	`ucs-c220-m3 /bios/advanced *# set TerminalType VT100+`
	`ucs-c220-m3 /bios/advanced *# commit`
	`ucs-c220-m3 /bios/advanced #`
		Use the following process:
		`ucs-c220-m3# scope bios`
		`ucs-c220-m3 /bios #scope advanced`
		`ucs-c220-m3 /bios/advanced # set ConsoleRedir COM_0`
		`ucs-c220-m3 /bios/advanced # commit`
		`Changes to BIOS set-up parameters will require a reboot.`
		`Do you want to reboot the system?[y|N]`
			1.5(4)

CSCue10121	The PWRGD Sensor's Normal events are logged in the SEL during the CIMC boot and Host boot.	These are expected events and can be ignored.	1.5(4)
CSCuj41445	Auto complete for few fields is done.	Upgrade to 1.5(x) build.	1.5(4)
CSCud17092	Occasionally after a CIMC upgrade, one may see an error dialog box "Error: Unexpected error" in Web UI on main page upon the very first login. The Storage data may also be blank or invalid. Sometimes occurs during the very first login after a CIMC upgrade. It may be related to upgrade from 1.4x to 1.5.	Logging out and back in will fix it, but probably just because it takes time; therefore, just waiting a few minutes and refreshing the WebUI may fix the problem, also.	1.5(4)

Cisco usNIC

Defect ID	Symptom	Workaround	First Affected Release
CSCul56178	CIMC limits the configurable vNICs, and usNICs to 229.	None. The remaining vNICs are reserved for the internal adapter usage. Of these remaining vNICs, 4 are mandatory- 2 eNICss, and 2 fNICs. When you configure 16 vNICs (including the 2 mandatory eNICs), you are left with 229-2(fNICs)-16(eNICs)= 211 usNICs.	1.5(4)

LSI

Defect ID	Symptom	Workaround	First Affected Release
CSCuj83316	The battery is in a degraded state because it requires a manual (user initiated) relearn cycle.This is required of batteries that have been in use for over 1 year to accurately measure the battery's remaining capacity.	A manual (deep cycle) relearn must be started by the user. This can be done via the MegaCLI utility or from the Storage tab of the server CIMC. A relearn can take several hours and up to a day to complete. It the battery still has sufficient capacity after the relearn is complete, it will go to optimal state and the VDs will switch back to WriteBack mode if that is how they configured prior to the relearn.	1.5(4)

Web Management

Defect ID	Symptom	Workaround	First Affected Release
CSCtx16030	The WebUI DIMM "Operability" field in the memory inventory does not indicate failed DIMMs correctly.	The issue is observed only in the memory inventory reported by the WebUI. The BIOS reports the DIMM status properly in the BIOS Setup. So, if WebUI shows any DIMM as Inoperable, please check the status of all DIMMs on all the memory risers at Advanced -> Memory Configuration page of the BIOS Setup to get the correct status on the DIMMs.	1.5(4)

Release 1.5(3)

Following is the known behavior for Release 1.5(3):

Firmware Upgrade

Defect ID	Symptom	Workaround	First Affected Release
CSCui82263	Downgrading from release version 1.5(3) to 1.5(1) release version does not throw an error in Host Upgrade Utility.	This is not an issue. Though an error is not reported, the update will not proceed.	1.5(3)

Release 1.5(2)

Following are the known behaviors for Release 1.5(2):

CIMC

Defect ID	Symptom	Workaround	First Affected Release
CSCuf52723	C240 M3 does not power up after firmware upgrade to 1.5(1B). While upgrading via HUU from firmware 1.4(6c) to 1.5(1b), HUU did not upgrade CIMC to 1.5(1b) even though it reported as successfully completed.	Manually force CIMC and BIOS update to fix it.	1.5(2)

CSCug78887	Base Distinguished Name (base-dn) parameter syntax is different in new LDAP implementation.	Use the following syntax:
		`/ldap # set base-dn DC=Scom,DC=msdn,DC=com`
		instead of
		`/ldap # set base-dn  Scom.msdn.com`
			1.5(2)

CSCuh71550	With Windows Active Directory, the child domain user login will fail with partial login name.	Provide fully qualified login name to make it work.	1.5(2)
CSCuh39061	Intel VTD and ATS are required BIOS setting for usNIC. However, there is no warning message in CIMC if these parameters are not enabled when usNIC is configured.	Make sure Intel VTD and ATS are enabled in BIOS setting when usNIC is configured.	1.5(2)
CSCuf08450	When upgrading the C24 M3 from 1.4.7a to 1.4.7f using the HUU (option to upgrade all), the servers fans run at almost double the speed they were running at on 1.4.7a.	None	1.5(2)
CSCug65160	Sometimes, a VIC link on a SFP+ copper cable goes down after a VIC reboot or CIMC reboot. Cables whose serial number starts with MOC1238 through MOC1309 could be affected.	AC power cycle the chassis to recover.	1.5(2)
CSCtx43305	The PSU firmware revision may only be partially available when the PSU does not have AC power.	Connect the AC power to the PSU. The full firmware revision will be available.	1.5(2)

LSI

Defect ID	Symptom	Workaround	First Affected Release
CSCue10144	When booting a Cisco C22x or C24x server, RAID levels are displayed when loading the LSI Option ROM. However, not all supported RAID levels are displayed.	This is done to distinguish between different 9240 controllers. Some of them support RAID5, and some do not. There are 2 products under the same 9240 name. However, there is not enough space in the name field to list every possible RAID level supported. This is why a partial list of RAID levels is displayed.	1.5(2)
CSCug95648	BBU charging status always shows as Charging and percentage of charging never reaches to 100%. It always shows 67%.	This is the new change in the firmware. The Battery re-learn cycle is completed successfully and battery is charged back to 67% which is in the band gap where charging will be stopped by LSI firmware and battery will be declared optimal. This is the charge needed to retain data upto 48 hours. The Charging Status showing "Charging" as there will be some leakages and battery will slowly loose charge and hence the battery will be charging.	1.5(2)
CSCuh82265	BBU status is showing as discharging and the charge % is stuck at 64%. Battery replacement alerts on the server. Server is showing battery discharging and there is a moderate alert which says Status: Learning Cycle Needed?	None	1.5(2)
CSCud13257	Hang occurs when using 64-bit MSM 12.08.03.03.	Use 32 bit version of MSM.	1.5(2)

Host Upgrade Utility

Defect ID	Symptom	Workaround	First Affected Release
CSCui09482	Firmware Update on Emulex LPe16002 will fail when tried from HUU on certain servers.	Emulex LPe16002 is already at the same firmware level of what HUU is carrying. So effectively an update is not needed. alternatively move the card to another server and try update.	1.5(2)

SNMP

Defect ID	Symptom	Workaround	First Affected Release
CSCug37639	When doing a MIB walk on several MIBs, they give a "No more variables left in this MIB View (It is past the end of the MIB tree)" error at the end. Failing MIBs: snmpVacmMIB Sample good output: `[root@pebbles-iptv mibs]# snmpwalk -v2c -c public localhost notificationLogMIB NOTIFICATION-LOG-MIB::nlmConfigGlobalAgeOut.0 = Gauge32: 1440 minutes NOTIFICATION-LOG-MIB::nlmStatsGlobalNotificationsLogged.0 = Counter32: 33 notifications NOTIFICATION-LOG-MIB::nlmStatsGlobalNotificationsBumped.0 = Counter32: 33 notifications [root@pebbles-iptv mibs]# **` Notice MIB ends cleanly, and there is no error ** Sample bad output: `[snmp@sv-repo ~]$ snmpwalk -t 120 -v3 -u glasco -l AuthPriv -a MD5 -A enuf4me2do -x DES -X tqbFjotlCow 14.17.2.45 .1.3.6.1.6.3.16.1.5.2.1.6 SNMP-VIEW-BASED-ACM-MIB::vacmViewTreeFamilyStatus."all".1.1 = INTEGER: active(1) SNMP-VIEW-BASED-ACM-MIB::vacmViewTreeFamilyStatus."_all_".1.0 = INTEGER: active(1) SNMP-VIEW-BASED-ACM-MIB::vacmViewTreeFamilyStatus."_all_".1.1 = INTEGER: active(1) SNMP-VIEW-BASED-ACM-MIB::vacmViewTreeFamilyStatus."_all_".1.2 = INTEGER: active(1) SNMP-VIEW-BASED-ACM-MIB::vacmViewTreeFamilyStatus."_none_".1.0 = INTEGER: active(1) SNMP-VIEW-BASED-ACM-MIB::vacmViewTreeFamilyStatus."_none_".1.1 = INTEGER: active(1) SNMP-VIEW-BASED-ACM-MIB::vacmViewTreeFamilyStatus."_none_".1.2 = INTEGER: active(1) SNMP-VIEW-BASED-ACM-MIB::vacmViewTreeFamilyStatus."_none_".1.2 = No more variables left in this MIB View (It is past the end of the MIB tree) [snmp@sv-repo ~]$` To have, "No more variables left in this MIB View" when there are more mibs left to walk. The final oid seen is 1.3.6.1.6.3.16.1.5.2.1.6, and within the error-status of the get-response packet, we get noSuchName(2), and this should be noError(0).	None.	1.5(2)

Web Management

Defect ID	Symptom	Workaround	First Affected Release
CSCuc19323	Sometime with Windows 2008 and IE 8.0 CIMC WEB UI login prompt will not be seen	Add CIMC IP to IE 8.0 trusted sites list. In the Internet Explorer browser window, select Tools -> Internet options -> Security -> Trusted Sites -> Sites -> Add	1.4(7)
CSCuh76949	After clicking on "Add Exception", user is prompted with a window which says "certificate is valid" and the "Confirm Security Exception" button is greyed out.	Clear the cache or refresh multiple times the issue will be resolved.	1.5(2)

Release 1.5(1f)

Following are the known behaviors for Release 1.5(1f):

CIMC

Defect ID	Symptom	Workaround	First Affected Release
CSCuf53059	FlexFlash operational profile is not preserved on downgrade from 1.5(1x), resulting in all FlexFlash partitions being visible to the operating system.	Set the operational profile again after downgrade.	1.5(1f)

Intel RSTe

Defect ID	Symptom	Workaround	First Affected Release
CSCuf02487	Creating RAID volumes from Intel RSTe software RAID Option ROM (Control-I) is not supported.	Use LSI software RAID, LSI hardware RAID, or OS SW RAID.	1.5(1f)
CSCue72256	Hard drive Critical events are seen in SEL during server bootup when using Intel RSTe.	This is not a real hard drive fault. The HDD Critical events reported becomes normal after system boots up and can be ignored. If real HDD fault, then Critical event generated on HDD will be persistent and does not indicate normal even after server has booted up and in this case, user need to take action to replace that HDD.	1.5(1f)

Release 1.5(1)

Following are the known behaviors for Release 1.5(1):

BIOS

Defect ID	Symptom	Workaround	First Affected Release
CSCuc75369	LSI Web BIOS may not launch on pressing Ctrl+H.	During BIOS post, press F6 to bringup the boot override list and select the appropriate entry to launch the web bios.	1.5(1)
CSCuc60934	BIOS Boot order is getting changed when a virtual media device is mounted and unmounted through CIMC WebUI vKVM console or CIMC CLI.	After unmounting the virtual media device, restore the boot order by re-configuring the boot order through either BIOS Setup or CIMC.	1.5(1)
CSCtf54851	Serial port B cannot be enabled for console redirection in the Server Management —> Console Redirection page of the BIOS setup.	Serial port B is primarily used for SOL functionality. The BIOS will start redirecting console messages to serial port B if SOL is enabled. You should enable SOL through BMC to get console redirection messages through serial port B.	1.5(1)
CSCth71350	If the current CIMC networking mode is shipping mode, then the BIOS F8 CIMC configuration utility does not allow a new networking mode and IP address to be set at the same time.	Set the new networking mode, save, then set the new IP address and save again.	1.5(1)
CSCtq84425	When BIOS console redirection is enabled, the keyboard can stop working in the Broadcom PCIe Option ROM at some baud rates.	Disable the BIOS console redirection.	1.5(1)
CSCtx27907	Occasionally, when BIOS starts, the following message is displayed: `Error on Getting Cisco IMC IP/MAC Address.`	This message can be ignored.	1.5(1)
CSCtx92042	When Broadcom 5709 Gigabit Ethernet adapter is plugged into one of the PCIE slots, the server gets stuck at the BIOS post screen during the booting process.	Upgrade the firmware on the Broadcom 5709 Gigabit Ethernet adapter to version 5.2.7 or later.	1.5(1)
CSCtr93601	BIOS downgrade using the iFlash32 utility, from 1.4.x to the older version 1.2.x fails.	Use the startup.nsh script available in the 1.2.x container for the downgrade. This script will execute the BIOS downgrade successfully.	1.5(1)

CIMC

Defect ID	Symptom	Workaround	First Affected Release
CSCuf05110	CIMC CLI does not report PID of HDD when using Intel RSTe.	None	1.5(1)
CSCue54670	For a server with Virident card (or any card for which fan control has specific modifications), if CIMC is reset to factory defaults when host is on, then the fan control will go back non-card specific settings. This might imply lower fan speeds and can cause heating up of cards if there are cards present that require higher fan speeds (ex: Virident FlashMaxII card). This is because information about cards is available to CIMC from host, and when a factory default is done, this information is erased.	Reboot the host, so that CIMC can get card specific information and bump up fan speeds as required.	1.5(1)
CSCtg92856	When you power on the chassis with some PS power cables disconnected, the system health LED on the front panel stays green, though some power supplies have no input voltage.	Connect all cables from APC power to the power supply securely.	1.5(1)

Defect ID	Symptom	Workaround	First Affected Release
CSCtz52715	USB Key which is inserted on a Mac can be forced to be read-only.	Mac users must unmount the removable drive before mapping. 1. Run the following command from the command line interface: **diskutil unmount /Volumes/<Volume name>** 2. In the KVM/vMedia client, clear the **Read Only** checkbox. At this point, the user may be prompted asking if they wish to stop automatic mounting of the drive. Click **Yes**. 3. Proceed with mapping the drive. These steps are time-sensitive, as the Mac OS is aggressive about re-mounting drives that have been unmounted. If the drive does get re-mounted by the OS before completing the steps, repeat the steps. Alternatively, unmap the USB stick, use the Finder to eject the device, wait for the device to disappear from the vMedia Client view, and then physically remove and re-insert it while the vMedia session is running. As above, click **Yes** to the questions asking about preventing automatic mounting of the drive.	1.5(1)
CSCua63839	On some Macs with spaces enabled, the vKVM popup notification that the session has ended can not be closed because trying to click the button causes the focus to move away from the space with the popup.	Move the vKVM main window to the same space with the popup notifier. Then, the popup can be dismissed by clicking on the button.	1.5(1)
CSCtr37876	SNMPv1 traps are sent when SNMPv2 and SNMPv3 traps are enabled.	None.	1.5(1)

Defect ID	Symptom	Workaround	First Affected Release
CSCtx00839	The KVM screen displays a blank screen.	Use the physical monitor to change the screen resolution. The following resolutions are supported: • 640x480 (8bpp) • 800x600 (8bpp) • 1024x768 (8bpp) • 1280x1024 (8bpp) • 1600x1200 (8bpp) • 1920x1080 (8bpp) • 1920x1200 (8bpp) • 640x480 (16bpp) • 800x600 (16bpp) • 1024x768 (16bpp) • 1280x1024 (16bpp) • 1600x1200 (16bpp) • 1920x1080 (16bpp) • 1920x1200 (16bpp) • 640x480 (24bpp) • 800x600 (24bpp) • 1024x768 (24bpp) • 1280x1024 (24bpp) • 640x480 (32bpp) • 800x600 (32bpp) • 1024x768 (32bpp) • 1280x1024 (32bpp)	1.5(1)
CSCtx88183	After firmware updates, the CIMC Web GUI and CLI might not display the Virtual Drive Information under the Virtual Drive tab and might display the Virtual Drive count as zero even though the Virtual Drive tab displays the list of virtual drives present in the system.	Restart the Cisco IMC.	1.5(1)

Defect ID	Symptom	Workaround	First Affected Release
CSCty58229	The SNMP Hard Disk Inventory starts numbering with 0 while the CIMC HDD sensor starts with 1.	None. This symptom occurs because the SNMP Hard disk inventory matches with the storage inventory and both starts with index 0. The hard disk sensor numbering starts with 1 because it matches with the label in the SKU. You need to be aware of the difference and map it accordingly while browsing for a specific HDD detail across sensors and storage inventory.	1.5(1)
CSCty60975	The HDD presence cannot be viewed through SNMP.	Use either alternate interfaces or do SNMP query again for the HDD inventory after the action.	1.5(1)
CSCua11831	Duplicate SNMP traps are obtained when you insert Fan 2,4 and 5 in Cisco C22.	None.	1.5(1)
CSCuc87936	"Unable to communicate with FlexFlash" error message is seen after downgrading CIMC to version 1.4.	User should select the Reset Flex Controller button twice if the SD card is of type SD253. If not, select the button only once.	1.5(1)

Intel Adapters

Defect ID	Symptom	Workaround	First Affected Release
CSCuc52172	When multiple Intel network adapters are present and you enter the iSCSI configuration from one card, it allows you to change the configuration on all Intel cards. After the change, when one of the cards is removed, it appears that the Option ROM of the remaining cards is overwritten by the card that was removed.	Enter the iSCSI configuration of the card that must be modified. Do not modify other cards when they are visible. This issue is only with iSCSI configuration and not with PXE configuration.	1.5(1)

LSI

Defect ID	Symptom	Workaround	First Affected Release
CSCtg25373	If the number of Virtual Drives created in the LSI MegaRAID controller is greater than or equal to 50, the system will not boot from any of these Virtual Drives.	None. The system boots from MegaRAID Virtual Drives only if the number of Virtual Drives are lesser than or equal to 49.	1.5(1)
CSCua03604	RHEL 6.2 Install to iSCSI target hangs when 2008 MEZZ card Option ROM is disabled on C220/C240 M3 servers.	2008 LSI OPROM must always be enabled in System BIOS when it is present in the server. If users want to disable it, then during OS Installs, depending on the OS, they would need to blacklist the LSI MegaRAID driver for the 2008 MEZZ card so that system will not hang during install.	1.5(1)

CSCts37240	The following error message is displayed in some LSI RAID controllers when you navigate to **Cisco IMC > Inventory > Storage > Battery Backup Unit**.
	`Error: required HW is missing ( i.e Alarm or BBU )`
	`The server did not have BBU installed on it and it should have confirmed the absence of the unit.`
		None. This issue is currently under investigation.	1.5(1)

WebUI

Defect ID	Symptom	Workaround	First Affected Release
CSCtc22985	Printing from Web UI is not supported.	Print a screenshot of Web UI.	1.5(1)

Release 1.4(3)

CIMC

Defect ID	Symptom	Workaround	First Affected Release
CSCun24570	Unable to set all numeric CN from the WebUI.	Update the CN from CLI	1.4(3)

Recommended Best Practices

Best Practices to Configure Cisco UCS 3X60 RAID Controllers

Choosing Between RAID0 and JBOD

The Cisco C3X60 RAID controller supports JBOD mode on the drives where the physical drives are in pass-thru mode and the physical drive is directly exposed to the OS. We recommended you use JBOD mode instead of individual RAID0 volumes when possible.

RAID5/6 Volume Creation

The Cisco C3X60 allows you to create of large RAID5/RAID6 volume by including all the drives in the system with a spanned array configuration (RAID50/RAID60). Where possible, we recommended you to create multiple, smaller RAID 5/6 volumes with fewer drives per RAID array. This provides redundancy and reduces the operations time for initialization, RAID rebuilds and other operations.

Choosing I/O Policy

The I/O policy applies to reads on a specific virtual drive. It does not affect the read ahead cache. RAID volume can be configured in two types of I/O policies. These are:

- **Cached I/O** - In this mode, all reads are buffered in cache memory. Cached I/O provides faster processing.
- **Direct I/O** - In this mode, reads are not buffered in cache memory. Data is transferred to the cache and the host concurrently. If the same data block is read again, it comes from cache memory. Direct I/O makes sure that the cache and the host contains the same data.

Although Cached I/O provides faster processing, it is only useful when the RAID volume has a small number of slower drives. With the C3X60 4TB SAS drives, Cached I/O has not shown any significant advantage over Direct I/O. Instead, Direct I/O has shown better results over Cached I/O in a majority of I/O patterns. We recommended you to use Direct I/O (Default Policy) in all cases and to use Cached I/O cautiously.

Background Operations (BGOPS)

Cisco C3X60 RAID Controller conduct different background operations like Consistency Check (CC), Background Initialization (BGI), Rebuild (RBLD), Volume Expansion & Reconstruction (RLM) and Patrol Real (PR).

While these BGOPS are expected to limit their impact to I/O operations, there have been cases of higher impact during some of the operations like Format or similar I/O operations. In these cases, both the I/O operation and the BGOPS may take more time to complete. In such cases, we recommend you to limit where possible concurrent BGOPS and other intensive I/O operations.

BGOPS on large volumes can take an extended period of time to complete, presenting a situation where operations complete and begin with limited time between operations. Since BGOPS are intended to have a very low impact in most I/O operations, the system should function without any issues. If there are any

issues that arise while running concurrent BGOPS and I/O operations, we recommend you to stop either activity to let the other complete before reusing and/or schedule the BGOPS at a later time when the I/O operations are low.

Upgrading BIOS and Cisco IMC Firmware

Caution When you upgrade the BIOS, Cisco IMC or the CMC firmware, you must also upgrade all the three firmwares from the same HUU ISO, or the server may not boot. Do not power off the server until the BIOS, Cisco IMC and CMC firmware are updated.

Cisco provides the Cisco Host Upgrade Utility to assist you in upgrading the BIOS, Cisco IMC, CMC LOM, LSI storage controller, and Cisco UCS Virtual Interface Cards firmware to compatible levels.

Note When upgrading the Cisco IMC firmware for the UCS C-series M3 and M4 platforms, ensure that you update using the full image (for example upd-pkg-cXXX-m3-Cisco IMC.full.*.bin).

The correct and compatible firmware levels for your server model are embedded in the utility ISO.

To use this utility, use the *Cisco Host Upgrade Utility User Guide* which includes the instructions for downloading and using the utility ISO. Select the guide from this URL:

http://www.cisco.com/en/US/products/ps10493/products_user_guide_list.html

Best Practices to Install VMWare

Workaround for Installing VMWare on First Generation (Gen 1) SD Cards in Expert Mode

Once you start the installer application, find the partition where you want to install VMWare. In the following example the partition is **vmhba33:C0:T0:L0.**

Step 1 Press **Alt+F1** to enter the VMWare recovery console.

Step 2 Create a GUID Partition Table (GPT) on the disk:

/dev/disks # partedUtil mklabel mpx.vmhba33:C0:T0:L0 gpt

Step 3 Verify the GPT:

/dev/disks # partedUtil get mpx.vmhba33:C0:T0:L0

3785 255 63 60817408

Step 4 Return to installing VMWare.

Related Documentation

For configuration information for this release, please 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*

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

- *Cisco UCS C-Series Servers Documentation Roadmap*
- *Cisco UCS Site Preparation Guide*
- *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*

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see *What's New in Cisco Product Documentation* at: http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html.

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This document is to be used in conjunction with the documents listed in the "Related Documentation" section.

Release Notes for Cisco UCS C-Series Software
