Release Notes for Cisco UCS C-Series Software, Release 2.0(8)

First Published Date: September 4, 2015
Revised Date: February 3, 2016

This document describes the new features, system requirements, open caveats and known behaviors for C- series software release 2.0(8) 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 73.

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.

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Table 1 Online History Change

Revision	Date	Description
A0	September 4, 2015	Created release notes for Release 2.0(8)
B0	October 8, 2015	Following changes were made: • Added support for all platforms • Updated these sections: Resolved Caveats, Known Behaviors and Open Caveats.
C0	November 4, 2015	Following changes were made: • Updated the HUU versions to 2.0(8e) for the C220 M4 and C240 M4 servers. • Updated the Resolved Caveats sections.
D0	December 11, 2015	Following changes were made: • Updated the Resolved Caveats sections. • Updated the HUU versions to 2.0(8g). 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
E0	February 3, 2016	Following changes were made: • Updated the Resolved Caveats sections. • Updated the HUU versions for the C220 M4 and C240 M4 servers to 2.0(8h). 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

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Introduction

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Overview of the Server Models

This section includes the following sections:

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 and E7-8800 v2 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 2 and Table 3 details the controllers and the supported transceivers.

Table 2 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 3 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

Table 3 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
Intel x520	x	NA	Not supported
Broadcom 57712	NA	x	x

Firmware Files

The C-Series software release 2.0(8) includes the following software files:

Table 4 Files in this release

CCO Software Type	File name(s)	Comment
Unified Computing System (UCS) Server Firmware	ucs-c3160-huu-2.0.8.iso ucs-c2x-huu-2.0.8.iso ucs-c240-huu-2.0.8.iso ucs-c220-huu-2.0.8.iso ucs-c240m4-huu-2.0.8.iso ucs-c220m4-huu-2.0.8.iso ucs-c460m4-huu-2.0.8.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.2.0.8.iso	Drivers
Unified Computing System (UCS) Utilities	ucs-cxxx-utils-efi.2.0.8.iso ucs-cxxx-utils-linux.2.0.8.iso ucs-cxxx-utils-vmware.2.0.8.iso ucs-cxxx-utils-windows.2.0.8.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
- 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
  - Cisco UCSC RAID SAS 2008M-8i
  - 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 1285
- Cisco Adapter UCS VIC 1227
- Cisco Adapter UCS VIC 1227T
- Cisco Adapter UCS VIC 1385
- 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-8242
  - QLogic-8362
- Emulex adapters
  - LightPulse LPe11002
  - LightPulse LPe12002
  - LightPulse LPe16002
  - OneConnect® OCe11102
  - OneConnect® OCe14102
- 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
- Nvidia
  - TESLA K10
  - TESLA K20m
  - TESLA K20xm
  - TESLA K40m
  - TESLA K80
  - VGX GRID K1

  - VGX GRID K2
- HDD
  - ST9146853SS
  - ST9300653SS
  - ST300MM0006
  - ST600MM0006
  - ST900MM0006
  - ST9500620SS
  - ST91000640SS
  - MZ6ER200HAGM
  - MZ6ER400HAGL
  - MZ6ER800HAGL
  - ST1000NM0001
  - ST2000NM0001
  - ST500NM0011
  - AL13SEB300
  - AL13SEB600
  - AL13SEB900
  - ST9300605SS
  - ST9600205SS
  - ST9900805SS
  - MK1001TRKB
  - MK2001TRKB
  - ST33000650SS
  - ST3600057SS
  - ST9146803SS
  - ST9300603SS
  - ST9500530NS
  - MTFDDAK100MAR
  - MTFDDAK400MAR

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

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

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
- 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.

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.

Supported Features

This section includes the following topics:

Supported Software Features

Supported Features in Release 2.0(8)

The following software features are supported in Release 2.0(8):

- Added support for XML import with an XML configuration file using the UCScfg tool.
- Added support for SOL pass through.
- Added support for clearing or resetting user details in the Cisco IMC Local User Table.
- Added support for Cisco IMC banner.

Software Utilities

The following standard utilities are available:

- Host Update Utility (HUU)
- Server Config 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

The following platforms are supported in Release 2.0(8):

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

Note Server Config Utility (SCU) supports only the UCS-C460 M4 platform for this release.

SNMP

The supported MIB definition for Release 2.0(8) 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

- Cisco UCSC RAID SAS 2008M-8i
- 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
- 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

Resolved Caveats

This section lists the resolved caveats for the following:

Release 2.0(8h)

The following defect was resolved in Release 2.0(8h):

BIOS

Defect ID	Description	First Affected Release	Resolved in Release
CSCux62660	On the C220 M4 and C240 M4 servers, after running the system for about 24 hours across ten hosts, sometimes one of the ESXi hosts loses access to the SD card. On the UCS Manager the SD card statistics show a small number of read/write errors. This happens when the servers are running VMware ESXi 5.5 or 6.0 versions and booted from the SD card with FX3S mirroring and auto-sync enabled.	2.0(8g)	2.0(8h)

Release 2.0(8g)

The following defect was resolved in Release 2.0(8g):

BIOS

Defect ID	Description	First Affected Release	Resolved in Release
CSCuw44524	When using 2.06d for E7 V2 processors on the C460 M4 servers, while you perform a clear CMOS BIOS operation the following error may occur which eventually causes the server to reboot or crash: **"System Software event: Memory sensor, Uncorrectable ECC error, DIMM socket 1, Channel A, Memory Riser 2, Processor Socket 1. was asserted"**	2.0(6d)	2.0(8g)

SNMP

Defect ID	Description	First Affected Release	Resolved in Release
CSCux13361	The SNMP version 3 engine ID value changes every time the Cisco IMC is factory reset or rebooted.	2.0(8d)	2.0(8g)

Cisco IMC

Defect ID	Description	First Affected Release	Resolved in Release
CSCuw80834	On the C220 M4 and C240 M4 servers, after upgrading from 2.0(4c) or 2.0(6f) versions to 2.0(8e) version, the following issues occur: • On the PMCLI, the **scope chassis > show detail** command displays the following message: "**Firmware update required. Run update-all command"**. This message continues to appear despite re-running the update-all command. • On the Web UI, every time the host is powered off, the following pop-up message appears: "**There is an update available for chassis firmware, would you like to continue**".	2.0(8e)	2.0(8g)
CSCuw64311	On the C240 M3 servers with 1200W or 1400W PSUs, the Cisco IMC System Event Logs report 'spurious PSU PIN' or 'VOUT sensors Upper Critical going high' messages.	2.0(8d)	2.0(8g)
CSCux01927	On the C220 M4 and C240 M4 servers installed with Cisco UCS VIC 1227T MLOM adapter, fan power policies do not work as expected.	2.0(8d)	2.0(8g)
CSCux20012	On the C220 M4 and the C240 M4 servers installed with a single CPU, a 'Missing CPU' error message is displayed. This causes the fans to run at maximum speed.	2.0(8d)	2.0(8g)

Release 2.0(8e)

The following defect was resolved in Release 2.0(8e):

BMC

Defect ID	Description	First Affected Release	Resolved in Release
CSCuw75214	Upon updating the board controller firmware for some rack servers, a critical fault is reported in the UCS Manager that recommends a manual A/C power cycle of the server.	2.0(8d)	2.0(8e)

Release 2.0(8d)

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

BMC

Defect ID	Description	First Affected Release	Resolved in Release
CSCuv66809	On the C220 M3/M4, and C240 M3/M4 servers, the Cisco IMC system event log (SEL) records critical events for the PIN and VOUT sensors intermittently but these events get cleared automatically.	2.0(3e)	2.0(8)
CSCuu93239	The XML monitoring service stops responding while using secure LDAPS (LDAP with encryption) due to a memory leak in the XML API request process.	2.0(3)	2.0(8)
CSCuv34876	The multi-service module (MSM) application on the Cisco 12 gigabyte modular SAS pass through controller receives an event notification stating the temperature sensor has crossed the threshold. This happens when the controller is subjected to a heavy I/O activity.	2.0(7)	2.0(8)
CSCuu13768	On the C240 M4 server, when you upgrade the Cisco IMC firmware using the Host Upgrade Utility, the RAID controllers become unresponsive due to corruption of the SAS expander.	2.2(1d)C	2.0(8)

CSCuu68723	On the C240 M4 server the Cisco IMC displays system log messages such as this:
	`3:2015 Jun  1 16:39:44:BMC:pmbus_pwrsply_mngr:1391:`
	`pmbus_pwrsply_mngr.c:986:Error: ioctl call failed: 9 Success`
	`3:2015 Jun  1 20:39:46:BMC:pmbus_pwrsply_mngr:1388:`
	`pmbus_pwrsply_mngr.c:1331:Error: ioctl call failed: 9 Success`
	`3:2015 Jun  1 20:39:46:BMC:pmbus_pwrsply_mngr:1391:`
	`pmbus_pwrsply_mngr.c:986:Error: ioctl call failed: 9 Success`
	`3:2015 Jun  1 21:39:46:BMC:pmbus_pwrsply_mngr:1391:`
	`pmbus_pwrsply_mngr.c:986:Error: ioctl call failed: 9 Success`
	`3:2015 Jun  2 01:39:45:BMC:pmbus_pwrsply_mngr:1391:`
	`pmbus_pwrsply_mngr.c:986:Error: ioctl call failed: 9 Success`
	
	These messages start and stop randomly.
		2.0(3c)	2.0(8)

CSCut28670	vMedia fails to launch from a KVM window. This happens when a KVM based virtual media session is terminated from the Cisco UCS Manager > Cisco IMC sessions tab. The same window cannot be used to launch the virtual media again.	2.0(3c)	2.0(8)
CSCus87490	There is no option to create an SHA-2 algorithm for certificate signing requests.	2.0(1)	2.0(8)

LSI

Defect ID	Description	First Affected Release	Resolved in Release
CSCuv03847	On C220/C240 M3 systems with LSI 9271-8i controller, after upgrading the firmware to Release 2.0(4c) or 2.0(6d) 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.	2.0(4c)	2.0(8)
CSCus66995	On the C3160 server, the legacy BIOS boot order shows multiple entries for the same drive connected to the UCS-C3X60-HBA passthrough controller.	2.0(4c)	2.0(8)

Defect ID	Description	First Affected Release	Resolved in Release
CSCuu27177	On the Cisco UCSC RAID SAS 12G SAS Modular Raid Controller or the UCSC-MRAIDC460 card without a memory module attached, when you try to upgrade the LSI firmware with a 4 MB image, the upgrade fails despite the successful upgrade message.	2.0(4b)	2.0(8)
CSCur91921	9300-8e: Legacy Option ROM Exposes two paths for each drive.	2.0(4c)	2.0(8)
CSCur30030	BIOS screen becomes unresponsive when external storage is attached to 9300-8e with 9300-8i, and when both 9300-8i and 9300-8e cards are in single system with both cards having a minimum of 16 drives.	2.0(3f)	2.0(8)
CSCut01379	The Hide and Unhide function for the first virtual drive of the first drive group does not work as expected. This happens because the first virtual drive is set as ‘Boot Drive’.	2.0(7)	2.0(8)

BIOS

Defect ID	Description	First Affected Release	Resolved in Release
CSCuu10407	The server boots to UEFI mode when UEFI secure boot is disabled, this happens when you disable the secure boot and try to choose the legacy boot mode.	2.0(4c)	2.0(8)
CSCup19899	Occasionally the host power status is not reflected in the KVM client power control menu. This occurs when Power ON or OFF is done through KVM client power control menu.	2.0(4c)	2.0(8)
CSCuu61885	On the C460 M4 servers, BIOS does not display the SAN boot device in the boot order and the system fails to boot to SAN when the boot order policy in the service profile is configured to boot from SAN. This happens when the network adapter is installed on any PCIe slots other than PCIe Slot 4.	2.0(6d)	2.0(8)
CSCuu71563	When C460 M4 servers with Qlogic 8362 adapter is managed by the UCS Manager, BIOS does not display the SAN boot device in the boot order and the system fails to boot to SAN when the boot order policy in the service profile is configured to boot from SAN. This happens when the network adapter is installed on any PCIe slots other than PCIe Slot 4.	2.0(6d)	2.0(8)
CSCuu04572	BIOS displays a **PCI out of resources error** after the BIOS F9-F10 (Load defaults-Save-Exit) with K40 GPU present on the server.	2.0(4c)	2.0(8)
CSCus87479	On the C460 M4 servers with v3 processors, Windows task manager displays incorrect number of cores and threads when you the CPU cores in the BIOS settings from a maximum number.	2.0(6d)	2.0(8)
CSCuu42569	On the C460 M4 servers, when you update BIOS with the **CoherencySupport** token in enabled state, the token may have changed to disabled state after the update. The change of **CoherencySupport** token to disabled, may also occur when CMOS is cleared or the BIOS defaults are loaded by pressing F9 in the BIOS Setup.	2.0(6d)	2.0(8)
CSCut94804	The external GPU slot ID is detected as an internal GPU slot ID. This happens when you swap internal and external slots between slot 2 and slot 5.	2.0(4c)	2.0(8)
CSCut28196	QPI Link Test on SCU fails with the following errors: *QPI speed is 8GT/s* *[Node 0 QPI 0] Link Status - Normal* *[Node 0 QPI 1] Link Status - Not yet ready (0xf)* *[Node 1 QPI 0] Link Status - Normal* *[Node 1 QPI 1] Link Status - Not yet ready (0xf)* *FAILURE*	2.0(1)	2.0(8)
CSCuu12931	On the C220 M3 and C240 M3 systems, the BIOS recovery image is corrupt.	2.0(4c)	2.0(8)
CSCuu01218	On C240 M3 servers running on Cisco IMC 2.0(x) firmware, C240 M3 BIOS network interface Enumeration Ordering is incorrect with VMware 5.5 and later versions.	2.0(4c)	2.0(8)
CSCut94238	On the C220 M4 and C240 M4 servers, the performance of synthetic tools such as **iometer** is not optimum.	2.0(4c)	2.0(8)

Defect ID	Description	First Affected Release	Resolved in Release
CSCuq24230	On the C460 M4 server, the system does not correctly map the PXE boot devices in the actual boot order to the corresponding PXE boot device entries in Configured Boot Order. This happens while configuring the boot order using the Cisco IMC WebUI or CLI and when PXE boot device entries are created with Slot ID L1 or L2. It may result in the PXE boot devices not placed with the right priority in the actual boot order and may cause the system boot to an unintended device.	2.0(2c)	2.0(8)
CSCuq28807	Experiencing lower throughput, of around 25 Gbps, when there is data traffic between VMs on various servers with VIC 1285 adapter running on VMware ESXi 5.5 Update 1 or VMware ESXi 5.1 Update 2 operating systems. This happens when the VIC-1285 adapters of the servers are connected to 40 Gbps ports of Nexus 3000 or Nexus 6000 switches.	2.0(3d)	2.0(8)

Utilities

Defect ID	Description	First Affected Release	Resolved in Release
CSCuu67294	Mounting HUU ISO from CIFS share fails when the CIFS share enables any other Windows security option other than **ntlmssp**.	2.0(6d)	2.0(8)
CSCuv59518	On the C3160 server, while downgrading firmware for all the components from Release 2.0(8) to 2.0(6d) or 2.0(4c), the SAS expander firmware downgrade fails.	2.0(4c)	2.0(8)

Cisco IMC

Defect ID	Description	First Affected Release	Resolved in Release
CSCut34246	On the C3160 server, you cannot disable auto-negotiation of the dedicated management port in order to configure speed and duplex.	2.0(4c)	2.0(8)
CSCuo13817	The Cisco IMC PCI adapter page displays the FLEX LOM card slot as MLOM but the Cisco VIC adapter page displays the same slot as SLOT 3 on C220 M4 server and SLOT 7 on C240 M4 server.	2.0(3d)	2.0(8)
CSCut22564	For the C240 M4 and C220 M4 servers, ME logs a critical event during memory domain power capping and the host powers down. This happens when you set the lowest memory domain power limiting value with the exception action as Alert or Shutdown and the correction time as 1 second.	2.0(4c)	2.0(8)

HUU

Defect ID	Description	First Affected Release	Resolved in Release
CSCus83839	Updating the firmware of the SAS Expanders on the C3160 server may fail, while updating the firmware using the HUU.	2.0(4c)	2.0(8)
CSCuu00789	Updating the firmware of the C240 M3 HDD fails when using 9286 CV-8e SAS card and updating the firmware using the HUU.	2.0(4c)	2.0(8)
CSCut50387	Updating the firmware of the Emulex adapter may fail, while updating the firmware using the HUU.	2.0(4c)	2.0(8)

VMWare OS

Defect ID	Description	First Affected Release	Resolved in Release
CSCuu41730	The MSM discovery on the ESXi OS version 6.0 fails intermittently. This happens on this particular version of the OS.	2.0(6)	2.0(8)

XML API

Defect ID	Description	First Affected Release	Resolved in Release
CSCuu55488	On the C240 M4 server, the Cisco IMC Supervisor incorrectly reports the PSU power as "Off" and "Input" as 0 watts. This happens when the XML API reports incorrect values for the PSU.	2.0(3c)	2.0(8)

Known Behaviors

This section lists the known behaviors for the following:

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(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)

Cisco IMC

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)

Open Caveats

This section lists the open caveats for the following:

Release 2.0(8d)

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

SAS Expander

Defect ID	Symptom	Workaround	First Affected Release
CSCuu49659	On the C3160 server, the SAS Expander displays a firmware assertion error and hangs. This happens for no specific reason.	AC power cycle the chassis.	2.0(8)

CMC

Defect ID	Symptom	Workaround	First Affected 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.	None.	2.0(8)

LSI

Defect ID	Symptom	Workaround	First Affected Release
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)
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)
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.	None.	2.0(8)
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)
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.	None.	1.5(7)

BIOS

Defect ID	Symptom	Workaround	First Affected Release
CSCuv66192	On the C3160 server, 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.	Use the latest switch available. Older switches support 10 Mbps. However, recent switches support fast Ethernet (100Mbps) and Gigabit Ethernet (1000Mbps) speeds.	2.0.7(a)
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)

LSI External Controllers

Defect ID	Symptom	Workaround	First Affected 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.	None. Ignore the false alarm.	2.0(8)
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)

VIC

Defect ID	Symptom	Workaround	First Affected Release
CSCuv96372	There is no way to specify the number of virtual machine queues (VMQ) on a standalone server.	Set the number of VMQs using this formula: VMQ = Transmit Queue + Receive Queue + Two Interrupt Queues. For instance, if the TQ and RQ are set at 1 each, the Interrupt Queue should be set as 4.	2.0(6d)

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(6d)

The following defects are open in Release 2.0(6d):

Cisco IMC

Defect ID	Symptom	Workaround	First Affected Release
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.	Accept the prompt **Remember the configuration for future sessions**, close the first KVM console, and then launch another KVM console for the same server.	2.0(6d)

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)
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.	Use IPv6 address of the file server instead of hostname.	2.0(4c)

BIOS

Defect ID	Symptom	Workaround	First Affected Release
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)
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
CSCut95181	Downgrading of the Emulex LPe16002 firmware from 2.0(4) to 2.0(3) fails while trying download using the HUU.	Reboot HUU.	2.0(4c)
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
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)
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)
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)

Defect ID	Symptom	Workaround	First Affected Release
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.	Reboot the system to recover from the situation if & when the application access is required Since there is no impact to the I/O to the enclosure (via other paths/cable), reboot is not a must unless application view/access is required.	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)
CSCuu16195	Latency errors seen on VMware with RAID5 when CC runs in the background.	Disable CC using the storcli command.	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
CSCuo96421	Changing the physical drives that are in hot spares or online states to unconfigured good fails with an error message.	Select physical drives that are in JBOD state, if you want to change to unconfigured good.	2.0(2c)
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
CSCup71624	The server resets during RHEL 7.0 OS installation in QLE2462 SAN Target.	None.	2.0(3d)
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 2.0(1)

The following defects are open in Release 2.0(1):

Cisco IMC

Defect ID	Symptom	Workaround	First Affected Release
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)
CSCun73331	After AC power cycle of the Cisco IMC, the **cucsEquipmentPsuTable** table does not display the correct values.	Save changes on the SNMP configuration screen using the Cisco IMC Web UI.	2.0(1)
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)

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)
CSCun91835	Boot order varies when enabling or disabling the Option ROM.	None.	2.0(1)

Release 1.5(1)

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

CIMC

Defect ID	Symptom	Workaround	First Affected Release
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.	Enter the listed physical drive slot numbers for Virtual drive creation.	1.5(1)
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.	Use the WebUI to create virtual drives from unused physical drives if a maximum-size VD is desired.	1.5(1)
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)

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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Release Notes for Cisco UCS C-Series Software
