Release Notes for Cisco UCS C-Series Software, Release 1.2(2)

This document describes the new features, system requirements, open caveats and known behaviors for C- series software release 1.2(2) including Cisco Integrated Management Controller software and any related BIOSes, firmware, or drivers. Use this document in conjunction with the documents listed in the "Related Documentation" section on page 22.

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

Table 1 shows the online change history for this document.

Table 1   Online History Change

Part Number	Revision	Date	Description
OL-23492-01	A0	September 17, 2010	Created release notes for Release 1.2(1a).
	B0	November 10, 2010	Updated release notes for Release 1.2(1b).
	C0	December 22, 2010	Updated release notes for Release 1.2(2d)
	D0	February 08, 2011	Updated release notes for Release 1.2(2f) and 1.2(2h)
	E0	June 13, 2011	Updated release notes for Release 1.2(2j). Host Upgrade Utility modified to clear LSI SAS Controller NVRAM data on downgrades.
	F0	July 12, 2011	Updated release notes for Release 1.2(2k).
	J0	July 12, 2011	Updated release notes for Release 1.2(2l).

Contents

This document includes the following sections:

Introduction

Cisco® UCS C-Series Rack-Mount Servers extend unified computing innovations to an industry-standard form factor to help reduce total cost of ownership (TCO) and increase business agility. Designed to operate both in standalone environments and as part of the Cisco Unified Computing System™1, the series employs Cisco technology to help customers handle the most challenging workloads. The series incorporates a standards-based unified network fabric, Cisco VN-Link virtualization support, and Cisco Extended Memory Technology. It supports an incremental deployment model and protects customer investments with a future migration path to unified computing.

The Cisco UCS C460 M1 High-Performance Rack-Mount Server is designed with the performance and reliability to power compute-intensive, enterprise-critical standalone applications and virtualized workloads. The system is a four-rack-unit (4RU) rack-mount server supporting up to four Intel Xeon 7500 series processors, up to 512 GB of DDR3 memory in 64 slots, and 12 small form-factor (SFF) hot-pluggable SAS and SATA disk drives. Abundant I/O capability is provided by 10 PCI Express (PCIe) slots supporting the Cisco UCS C-Series network adapters, with an eleventh PCIe slot reserved for a hard disk drive array controller card. Additional I/O is provided by two Gigabit Ethernet LAN-on-motherboard (LOM) ports, two 10 Gigabit Ethernet ports, and two dedicated out-of-band (OOB) management ports.

The Cisco UCS C250 Extended-Memory Rack-Mount Server is a two-socket, two-rack-unit (2RU) rack-mount server featuring patented Cisco Extended Memory Technology. It is designed to increase performance and capacity for demanding virtualization and large-data-set workloads. It also can reduce the cost of smaller memory footprints. This server is built for virtualized workloads in enterprise data centers, service provider environments, and virtual desktop hosting. The system also helps increase performance for large-data-set workloads, including database management systems and modeling and simulation applications. Applications that are memory bound today will benefit by the 384 GB of addressable memory that the Cisco UCS C250 server offers.

The Cisco UCS C210 General-Purpose Rack-Mount Server is a general-purpose, two-socket, two-rack-unit (2RU) rack-mount server housing up to 16 internal small form-factor (SFF) SAS or SATA disk drives for a total of up to 8 terabytes (TB) of storage. The Cisco UCS C210 server is designed to balance performance, density, and efficiency for workloads requiring economical, high-capacity, reliable, internal storage. Based on quad-core Intel® Xeon® 5500 or 5600 series processors, the server is built for applications including virtualization, network file servers and appliances, storage servers, database servers, and content-delivery servers.

The Cisco UCS C200 High-Density Rack-Mount Server is a high-density server with balanced compute performance and I/O flexibility. This price-to-performance optimized two-socket, one-rack-unit (1RU) rack-mount server is designed to balance simplicity, performance, and density for web infrastructure and mainstream data center, small-office, and remote-office applications. Its single-rack-unit size makes it useful for service providers offering dedicated or multi-tenant hosting, and its economical price makes it well suited to the appliance market.

C-series servers are capable of standalone management using Cisco Integrated Management Controller (CIMC), which is an integration of the service processor hardware and the CIMC firmware. CIMC has a Web GUI and a CLI mode.

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

Firmware Files

The C-Series software release 1.2(2) includes the following software files:

Table 2   Files in this release

CCO Software Type	File name(s)	Comment
Unified Computing System (UCS) Software Container for Rack Mount Servers	C200M1-1.2.2d.zip C250M1-1.2.2d.zip C460M1-1.2.2d.zip	Software container
Unified Computing System (UCS) Server BIOS	ucs-c200-bios.1.2.2d.zip ucs-c250-bios.1.2.2d.zip ucs-c460-bios.1.2.2d.zip	Server BIOS. The ZIP archive contains the .cap files along with the recovery .iso and other files. The .cap files are: C250 : C250-BIOS-1-2-2f-0.cap C200 : C200-BIOS-1-2-2f-0.cap C460 : C460-BIOS-1-2-2f-0.cap

Table 2   Files in this release

CCO Software Type	File name(s)	Comment
Unified Computing System (UCS) Integrated Management Controller Firmware	upd-pkg-c200-m1-cimc.full.1.2.2d.bin upd-pkg-c250-m1-cimc.full.1.2.2d.bin upd-pkg-c460-m1-cimc.full.1.2.2d.bin ucs-cxxx-fw.1.2.2.iso	Management controller (CIMC) firmware.
Unified Computing System (UCS) standalone host utilities	standalone-host-utilities.1.2.2d.4.zip	Contains the host upgrade tool and SCU (Server Configuration Utility)
Unified Computing System (UCS) host upgrade utility	hostUpgrade_v1_2_2j_3.iso	Host Upgrade Utility.
Unified Computing System (UCS) Tools And Drivers Bundle	ucs-cxxx-drivers.1.2.2b.iso	Drivers
Unified Computing System (UCS) Tools And Drivers Bundle	ucs-cxxx-utils-efi.1.2.2.iso ucs-cxxx-utils-linux.1.2.2.iso ucs-cxxx-utils-vmware.1.2.2.iso ucs-cxxx-utils-windows.1.2.2.iso	Utilities

System Requirements

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

- Sun JRE 1.6 or later.
- Microsoft Internet Explorer 6.0 or higher or Mozilla Firefox 3.0 or higher
- The Microsoft Windows XP, Microsoft Windows Vista, Red Hat Enterprise Linux 5.0 or higher operating systems.

Updating the Firmware

To update the CIMC firmware, refer to the "*CIMC Firmware Management*" chapter in the software configuration documents.

To update the BIOS, refer to the "Updating the BIOS Firmware" section of the installation chapter for the C200, C210, C250, or C460 server installation and service guide.

Note   The BIOS Quiet Boot option is not available release 1.2(1) onwards.

New Features in this Release

This section briefly describes the new features introduced in this release:

- C200 and C250 now support SMASH CLP and WS-MAN in CIMC.
- C200 and C250 now support CIMC configuration import and export.
- C200 and C250 now support CIMC remote logging.
- UCSM integration on C200, C210, and C250.
- 10GBaseT support on C460.
- Host upgrade ISO image for upgrading BIOS, CIMC, and LOM firmware.
- 16 GB DIMMs support on C460, C200 and, C210.
- Support for upgrading the P81E Adapter firmware and LSI Controller firmware.
- Many bug fixes.

Cisco UCS P81E Virtual Interface Card

A Cisco UCS C-Series network adapter can be installed to provide options for I/O consolidation and virtualization support. The available adapter is the Cisco UCS P81E Virtual Interface Card.

The Cisco UCS P81E Virtual Interface Card is optimized for virtualized environments, for organizations that seek increased mobility in their physical environments, and for data centers that want reduced costs through NIC, HBA, cabling, and switch reduction and reduced management overhead. This Fibre Channel over Ethernet (FCoE) PCIe card offers the following benefits:

- Allows up to 2 virtual Fibre Channel and 16 virtual Ethernet adapters to be provisioned in virtualized or non virtualized environments using just-in-time provisioning, providing tremendous system flexibility and allowing consolidation of multiple physical adapters.
- Delivers uncompromising virtualization support, including hardware-based implementation of Cisco VN-Link technology and pass-through switching.
- Improves system security and manageability by providing visibility and portability of network polices and security all the way to the virtual machine.

The virtual interface card makes Cisco VN-Link connections to the parent fabric interconnects, which allows virtual links to connect virtual NICs in virtual machines to virtual interfaces in the interconnect. In a Cisco Unified Computing System environment, virtual links then can be managed, network profiles applied, and interfaces dynamically reprovisioned as virtual machines move between servers in the system.

The Cisco UCS P81E Virtual Interface Card (VIC) can be configured by a KVM connection to the card through the EFI as an alternative to using the CIMC CLI or GUI. The processor on the VIC hosts the VIC Configuration Utility, a CLI providing many commands that are the same or similar to those of the CIMC, as well as a few unique commands.

Hardware Features

Release 1.2(1) introduces the following support:

- UCS-C460-M1
- UCS-C200-M1, UCS-C200-M2
- UCS-C210-M1, UCS-C210-M2
- UCS-C250-M1, UCS-C250-M2

Known Behaviors

This section lists the known behaviors in the 1.2(2d) release:

CIMC

Symptom With maximum hardware acceleration in some Windows OS installs, the vKVM cursor disappears.

Workaround If the slider is moved even one notch to the left of the maximum acceleration, then the remote cursor appears. (CSCtj30195)

This section lists the known behaviors in the 1.2(1a) release:

CIMC

Symptom CIMC Web GUI doesn't come up after certificate import. The browser displays the following Error message: Error Invalid Server Certificate. A request failed because the server's certificate was invalid.

Workaround Provide different values for the corresponding fields for "Subject Information" and "Issuer Information" during the certificate import process. (CSCth63837)

Symptom After using the WSMAN command the session displays the following error message: Error: Unable to create Resource Locator object.

Workaround There is no workaround. This request is not valid. You will need to provide a valid target so that CIMC can return appropriate information. (CSCth43327)

Symptom Occasionally IPMI LAN interfaces will become unresponsive (to the point of lost functionality) under stress.

Workaround The workaround is not to use IPMI queries during times of high SOL traffic. (CSCtd05874)

Symptom The uboot version shows extra character after normal CIMC version.

Workaround The extra character is displayed after updating to 1.2.x revisions of the firmware. This is a new feature added to the release and it specifies a specific uboot version. (CSCti49855)

Symptom Two active media sessions observed in the webUI/CLI.

Workaround Reset to default through the webUI or CLI so that the new changes take effect. (CSCti42465)

BIOS

Symptom After upgrading to BIOS version 1.2.1a.0, one of the two onboard LOMs may get disabled.

Workaround After upgrading to BIOS version 1.2.1a.0, reboot the server, go to the BIOS setup screen, navigate to the Advanced -> PCI Configuration screen, and set the "Onboard Gbit NIC2" to enabled. Then save and exit the BIOS setup. (CSCti71226)

LSI

Symptom When the installation of the LSI SNMP agent on a Windows OS is complete, an error message that reads as "Fatal Error" may be displayed, indicating an unsupported version of firmware is installed on the storage controller.

Workaround The firmware version installed on the storage controller must be a supported version. To view the list of supported firmware versions for the controller, see: http://www.cisco.com/en/US/products/ps10477/prod_technical_reference_list.html (CSCti35162)

Symptom When there are 8708 and 1064E LSI controllers on the same system, the product name of the 1064E controller is displayed as "UNUSED" on the MIB walk.

Workaround Remove the 8708 LSI controller and place only the 1064E to view the product name in the MIB walk. (CSCti64538)

Open Caveats

This section lists the open caveats in the 1.2(2d) release:

CIMC

Symptom C460 CIMC network mode shared_lom_10g with active-standby redundancy can stop working when the host OS is also using 10GE LOM port and then is rebooted.

Workaround Do not use the CIMC network mode shared_lom_10g. Use one of the other modes instead. (CSCtj57061)

Symptom C460 CIMC network mode shared_lom_10g with active-active redundancy will lose connectivity temporarily when the host OS is also using a 10GE LOM port.

Workaround Do not use CIMC network mode shared_lom_10g. Use one of the other modes instead. (CSCtj58245)

Symptom When downgrading from CIMC version 1.2 release to 1.1, CIMC is inaccessible.

Workaround Check its current network settings through the CIMC Configuration Utility or set the CIMC network settings to default using the CIMC Configuration Utility and use default network settings for version 1.1. (CSCti48255)

Symptom ESX VM CD ROM mapped to virtual media displays Image Checksum error.

Workaround Copy the ISO to the virtual media's file system. (CSCtj34776)

Symptom LED sensor color is displayed as Red or Amber or Blue (or any supported color) even though LED state if OFF.

Workaround Ignore LED color when LED state is OFF. (CSCth84883)

Symptom Network mode cannot be set to cisco_card mode even though the option is available.

Workaround Install Cisco UCS P81E card to move into cisco_card network mode. (CSCth87044)

BIOS

Symptom On C series servers with UCS P81E Virtual Interface Card, the system may hang during system boot (BIOS post).

Workaround This happens only when more than two vNICs are set to bootable in UCS P81E Virtual Interface Card. Do not set more than two vNICs to be bootable in UCS P81E Virtual Interface Card. (CSCti22874)

Web Management

Symptom Whenever you add a vNIC, modify an existing vNIC or clone a vNIC and set the PCI Order attribute of the vNIC to a value that is already being used by another vNIC, the respective WebUI operation fails.

Workaround PCI slots like a MAC address is a resource that can only be used by one vNIC at a time. Do not reuse a PCI slot number once it has been assigned to a different vNIC in the adapter. (CSCtk14712)

EXT-LSI-SAS-CNTRLR

Symptom Server reboots when one or more Intel SSD 64GB drives are plugged in when the C-460 Server is up and running.

Workaround If Intel 64GB SSD drives need to be used in the C-460 server, power down the system completely and gracefully and then plug in the drives. The drives are recognised by the storage controller after power-on.

Symptom The host based LSI tool MegaCli when executed will display a "Permission Denied" message on ESXi4.1 and ESX4.1 operating system.

Workaround After installing MegaCli on ESXi4.1 or ESX4.1, use the following command to change permission: chmod 755 MegaCli. Once the permission is changed, MegaCli command and options work successfully. (CSCtk11863)

Symptom The host based LSI CLI tool MegaCli does not work with 9240-8i LSI Controllers used on C-400-M1 servers.

Workaround WebBIOS can be used to query the LSI controller 9240-8i on C400-M1 servers. WebBIOS is accessed using Cntrl+H during BIOS POST when the LSI controller is scanned. (CSCtk11853)

Symptom LSI Storage controllers on C-400 M1, C200 M2, C250-M2 servers running ESX4.1 and ESXi4.1 cannot be managed using the host application MegaRAID Storage Manager running on remote clients.

Workaround The LSI controller can be managed using WebBIOS which can be accessed using Cntrl+H keys during BIOS bootup when LSI controller is scanned. (CSCtk06208)

Symptom System reboots when one or more Intel SSD 64GB drives are plugged in when the C-460 Server is up and running.

Workaround If Intel 64GB SSD drives need to be used in the C-460 server, power down the system completely and gracefully and then plug in the drives. The drives are recognised by the Storage controller after power-on. (CSCti94758)

Utilities

Symptom If you try to move to cisco_card mode from the CIMC Configuration Utility, you see the error "Net mode invalid".

Workaround Install either just one or two R2X0-PSU2-650-SB power supply units in the server. Restart the CIMC and move to cisco_card mode. (CSCti70359)

This section lists the open caveats in the 1.2(1a) release:

CIMC

Symptom CIMC becomes un-responsive when repeated WSMAN requests are sent.

Workaround Multiple WSMAN requests timeout as current CIM object manager servers only support one request at a time. Send WSMAN requests in a staggered manner so that they do not time out. (CSCth57587)

Symptom Occasionally when configuring a C-series rack server for in-band management (connecting to the management controller via the host LAN on Motherboard ports, or via a Cisco adapter port), rebooting the host will cause an existing vKVM session to drop.

Workaround Use the dedicated CIMC ports for management connectivity. If that is not possible in your C-series server deployment, configure the switch ports to which the host is attached for fast spanning-tree recalculations. That can avoid the usual 30-second delay many switches impose when a port bounces before they re-run the spanning-tree calculation. (CSCth98858)

Symptom 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.

Workaround 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. (CSCti17492)

Web UI

Symptom Immediately after powering on the C460-M1 rack server with the WebUI, the error message "error: timed out" is sometimes displayed.

Workaround Click the Refresh button if this message displays. It can otherwise be ignored. (CSCti29430)

BIOS

Symptom 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.

Workaround Set the new networking mode, save, then set the new IP address and save again. (CSCth71350)

vNIC

Symptom Rx Errors or Rx FCS Errors reported by Ethernet vNICs.

Workaround Enable per-priority pause on active class of services on the switch. (CSCti17467)

Adapter firmware

Symptom While connected to the adapter CLI through the EFI VIC configuration utility, a user has to press the tab key (auto completion) two to three times for the command to auto complete.

Workaround None. (CSCti17428)

EXT-INTEL-CNTLR

Symptom esxcfg-nics -l on VMware shows that LOM ports (82576) negotiated only 10 mbps on C-Series.

Workaround Follow these steps:

Step 1 If running ESX, collect the output from the following commands for Cisco TAC:

```
esxcfg-nics -l
ethtool -i vmnic0
ethtool -i vmnic1
```
Then verify that the ports are in auto/auto for speed and duplex by running the following commands:

```
esxcfg-nics -a vmnic0
esxcfg-nics -a vmnic1
```

Step 2 Toggle the NIC mode between Shared LOM and Dedicated and back to the desired mode in CIMC, while saving the changes in between. If the interface does not come up in the 1 Gbps mode, try power cycling the server, leaving the entire device disconnected from power for 3 minutes and then power on. If the NIC still does not negotiate at 1 Gbps, try step 3.

Step 3 Make sure the LOM firmware is at version 1.4-3, if the ethtool -i output shows the firmware-version is not 1.4-3, then try step 2 again. (CSCtj80604)

EXT-AVOCENT-CIMC

Symptom When using virtual KVM to control the server, and switching between full screen and normal window modes, occasionally the keyboard focus gets stuck to the KVM window, and cannot be used to control other windows on the client machine.

Workaround Shut down the virtual KVM session and restart a new one. The keyboard focus is properly released when the vKVM session is ended, and the new session will start up correctly handling the keyboard focus. (CSCtk57207)

Resolved Caveats

This section lists the resolved caveats in the 1.2(2l) release:

Symptom In UCS Mode, a rack server that is de-commissioned and then re-commissioned does not reappear in the UCSM UI. This occurs only on rare occasions. However, when this problem is seen the Locator LED button on the front panel of the server is non-responsive also (the LED does not light up).

Workaround If the rack server does not reappear in the UCSM UI within five minutes after the re-commission operation, the CIMC has to be rebooted. Reboot the CIMC by pulling all power cords to the server. (CSCtq58801)

This section lists the resolved caveats in the 1.2(2k) release:

CIMC

Symptom C210-M1, C210-M2 server missing during decommission and recommission process from the rack-server tree.

Workaround Issue observed intermittently during decomission/recommission process. No workaround for consistent behavior. Power cycle or reboot the CIMC to recover. (CSCtn72117)

Symptom Discovery failure is observed is observed intermittently as part of discovery process.

Workaround No workaround possible as the Avocent password has been corrupted. (CSCtl69241)

Symptom In the UCS mode, a rack server fails to be discovered successfully if many "show techsupport" operations are performed on the server. This problem can happen if "show techsupport" is done 40+ times without rebooting the CIMC.

Workaround If a rack server repeatedly fails a discovery operation the CIMC has to be rebooted. Reboot the CIMC by pulling all power cords to the server. (CSCto42947)

Symptom CIMC doesn't reboot when reset to defaults.

Workaround Power cycle the server to recover. (CSCto41439)

Symptom FRU population takes long time to finish in the initial scripts.

Workaround Due the multiple retry mechanism within the KCS code, the timeout value will not be processed accurately if a FRU failure takes place. There is no workaround for this issue. (CSCto35667)

Symptom

OBFL logs on UCS C250 M1 or UCS C250 M2 have power supply failure messages as follows:

/obfl/obfl-log.4:1:2011 Mar 1 22:05:11:BMC:pmbus_pwrsply_mngr:714: pmbus_pwrsply_mngr.c:1115:Power Supply 1 failure occurred: 0x0 0x0, ps_status=0xf997, in_current=0x1c5, pin=0x5c, pout=0x49

/obfl/obfl-log.4:1:2011 Mar 1 22:05:11:BMC:pmbus_pwrsply_mngr:714: pmbus_pwrsply_mngr.c:1121:Power Supply 1 failured status registers: Vout 0x0 Iout 0x0 Input 0x0 Temp0x0 CML 0x0 Fan 0x0

/obfl/obfl-log.4:1:2011 Mar 2 05:53:34:BMC:pmbus_pwrsply_mngr:714:

Workaround There is no workaround for this issue. (CSCtn60443)

This section lists the resolved caveats in the 1.2(2j) release:

CIMC

Symptom During single/multiple discovery/association of the racks, memory leaks occur in the CIMC firmware.

Workaround When the firmware update fails, reset the CIMC from the UCSM GUI. When CIMC reboots, it continue the update process successfully. (CSCtn53699)

Symptom When a rack-server is associated with a P81E Virtual Interface card, a failure message is displayed.

Workaround .No workaround required. The association will be automatically successful in the subsequent rediscovery process by the UCSM. (CSCtn08657)

Caveats from Previous Releases

Release 1.1.(2)

This section lists the open caveats for the 1.1(2a) release and applies to the M1 version of the C460 server.

Symptom 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.

Workaround None. The system boots from MegaRAID Virtual Drives only if the number of Virtual Drives are lesser than or equal to 49. (CSCtg25373)

This section lists the known behaviors for the 1.1(2a) release and applies to the M1 version of the C460 server.

Send document comments to ucs-docfeedback@cisco.com

Symptom Wake on LAN (WoL) Magic packet will not wake the system if they are sent to 10 GigE LOM SFP+ interfaces.

Workaround Use 1 GigE LOM ports for WoL. (CSCtg68906)

Miscellaneous

Symptom The CLP command takes a long time to complete and/or other applications appear slow.

Workaround The **-l all** option instructs CLP to traverse the entire sub tree. Due to the number of objects that must be queried, this command requires a long time to execute. To reduce the time and resources required, **cd** to the target(s) of interest and execute a **show** on the individual objects. (CSCtg72073)

BIOS

Symptom Some systems generate **Critical Interrupt #0x1b** SEL messages.

Workaround None. (CSCtg30658)

Symptom The display from both onboard and external videos go blank during BIOS POST. However, the display works during the operating system boot.

Workaround Do not install an external PCIe VGA adaptor to view the BIOS POST or to access the BIOS Setup or EFI shell. Wait a few minutes for the BIOS to hand off the control to the operating system to bring up the display. (CSCtf37551)

Symptom BIOS setup hangs while hot-plugging multiple USB devices into a USB hub.

Workaround Reboot the system with all the required USB devices connected to the hub. (CSCtf51706)

Symptom Serial port B cannot be enabled for console redirection in the Server Management —> Console Redirection page of the BIOS setup.

Workaround 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. (CSCtf54851)

Symptom System reboots during EFI Windows 2008 R2 installation.

Workaround EFI OS installation is not supported by the BIOS. You should disable the EFI- Optimized mode in the BIOS setup and install Windows 2008 R2 in legacy mode. (CSCtf87728)

Symptom The BIOS EFI shell hangs while hot-plugging the USB CD-ROM into a USB hub.

Workaround Reboot the system with the USB-CD-ROM connected. The BIOS detects and configures it correctly during the POST. (CSCta99789)

Symptom If you enter the LSI Option ROM Configuration utility WebBIOS by pressing CTRL+H during boot, the BIOS boot order changes. As a result, the system may not boot in the same order as expected, after exiting WebBIOS and rebooting.

Workaround After exiting the WebBIOS (which also reboots the system), update the boot order by entering BIOS setup. (CSCta56788) To update the boot order follow the steps below:

Step 1 Press **F2** to enter the BIOS Setup.

Step 2 Navigate to the Boot Option tab, select **Hard Disk Order** and update the boot order as required.

Step 3 Update the Boot Option #1, #2, and so on.

Step 4 Press **F10** to save and exit.

CIMC

Symptom 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.

Workaround Connect all cables from APC power to the power supply securely. (CSCtg92856)

Symptom The virtual mouse in the KVM console is difficult to use when installing SLES 11.

Workaround Use a physical mouse instead of a virtual mouse when installing SLES 11. (CSCta55758)

Symptom On the CIMC Web UI summary screen, for processors, memory, power supplies, and fans, there is a hyperlink next to the status indicator. When the status is bad, you could expect the link to take you to a page that displays the source of the fault. Instead, for CPUs and memory, the links take you to the inventory page which does not display the source of the fault.

Workaround Navigate to the sensor and System Event Log screens to find the source of the problem. In particular, CPU faults indicate high temperature conditions, so the temperature sensors screen should be monitored. For memory faults, the System Event Log needs to be scanned to view the messages sent from the BIOS to the BMC, indicating memory events. (CSCtf39952)

Symptom The CIMC time/date is set to 1970.

Workaround Do not reboot the CIMC after the BIOS sets the time/date for the CIMC. (CSCtc21237)

Symptom A firmware update using a browser does not show the progress bar at times, due to slow network bandwidth.

Workaround Ideally, the download time should not be greater than 10 minutes. If the update takes longer than that to download, try to update the image by uploading it to a nearby TFTP server. (CSCtf03964)

Release 1.1(1)

The following caveats were opened in UCS software release 1.1(1d) and are still unresolved.

This section lists the open caveats for the 1.1(1d) release. Unless otherwise noted, the caveats are for all rack server platforms.

Misc

Symptom When network mode is set to shared LOM with redundancy is set to None, and if the cable is connected to LOM Port2, CIMC doesn't pick the IP.

Workaround In Shared LOM, NONE mode, only LOM Port1 is expected to pick the IP. So connect cable to Port1 and IP will be retrieved. (CSCtf86648)

Symptom The following message appears after installation or upgrade to ESX 4.0 vSphere:
`Error:TSC: 1137350434cpu0 :0)NUMA : 827 Signficant imbalance between NUMA nodes detected. Performance may be impacted.:`

Workaround There are two possible workarounds.

Option 1: Ensure that memory configuration is equal across both processors. Ensure that there are equal amounts of DIMMs of the same size and speed inserted in the DIMM sockets.

Option 2: Reboot system and enter BIOS setup by pressing F2. Go to **Advanced-->Memory Configuration-->Memory RAS --> Performance Configuration**--> and change NUMA Optimized to Disabled. Press F10 to save and reboot. (CSCtc33846)

BIOS

Symptom At times due to slow network bandwidth, a firmware update using a browser doesn't show the progress bar.

Workaround Ideally, the download time should not be greater than 10 minutes. If the update takes longer than that to download, try to update the image by uploading it to a nearby TFTP server. (CSCtf03964)

Symptom The front panel COM port does not work.

Workaround Use the rear panel COM port. (CSCte96760)

Symptom Faulty DIMM size and speed are reported in SMBIOS Type 17. The expected behavior is to report "No DIMM" for failed DIMM slots.

Workaround The user should not assume all DIMMs reported through SMBIOS type 17 are working. Instead the user should go to BIOS setup to find out the working and failing DIMMs. Also the user can retrieve the failing DIMM information from the system error log. (CSCtd44151)

Symptom When VT-UTF8 is selected as a terminal type in BIOS Setup, junk characters are seen on the terminal.

Workaround Do not select VT-UTF8 as terminal type. Use the default VT100 mode. (CSCtb25124)

Symptom Installation of any UEFI Aware Operating System may result in a complete system failure.

Workaround No workaround exists. We do not support UEFI aware Operating Systems. (CSCtd71780)

Release 1.0(2)

The following caveats were opened in UCS software release 1.0(2) and are still unresolved.

This section lists the open caveats for this release. Unless otherwise noted, the caveats are for all rack server platforms.

Misc

Symptom The following message appears after installation or upgrade to ESX 4.0 vSphere:
`Error:TSC: 1137350434cpu0 :0)NUMA : 827 Signficant imbalance between NUMA nodes detected. Performance may be impacted.:`

Workaround There are two possible workarounds.

Option 1: Ensure that memory configuration is equal across both processors. Ensure that there are equal amounts of DIMMs of the same size and speed inserted in the DIMM sockets.

Option 2: Reboot system and enter BIOS setup by pressing F2. Go to **Advanced-->Memory Configuration-->Memory RAS --> Performance Configuration**--> and change NUMA Optimized to Disabled. Press F10 to save and reboot. (CSCtc33846)

Symptom The firmware update freezes at downloading stage and at 5% completion. This may occur if there is an interruption to the firmware download while installing firmware through the browser client. Examples of interruptions include: closing the browser, clicking on the browser's stop button, clicking on the browser's refresh button, and network errors.

Workaround If the download appears to have frozen, the easiest workaround is to log out then try the firmware installation again. If the browser has already been closed and you cannot log out, then wait until the session expires and try again. (CSCtb70038)

BIOS

Symptom At times due to slow network bandwidth, a firmware update using a browser doesn't show the progress bar.

Workaround Ideally, the download time should not be greater than 10 minutes. If the update takes longer than that to download, try to update the image by uploading it to a nearby TFTP server. (CSCtf03964)

Symptom The front panel COM port does not work.

Workaround Use the rear panel COM port. (CSCte96760)

Symptom Faulty DIMM size and speed are reported in SMBIOS Type 17. The expected behavior is to report "No DIMM" for failed DIMM slots.

Workaround The user should not assume all DIMMs reported through SMBIOS type 17 are working. Instead the user should go to BIOS setup to find out the working and failing DIMMs. Also the user can retrieve the failing DIMM information from the system error log. (CSCtd44151)

Symptom When VT-UTF8 is selected as a terminal type in BIOS Setup, junk characters are seen on the terminal.

Workaround Do not select VT-UTF8 as terminal type. Use the default VT100 mode. (CSCtb25124)

Symptom Installation of any UEFI Aware Operating System may result in a complete system failure.

Workaround No workaround exists. We do not support UEFI aware Operating Systems. (CSCtd71780)

CIMC

Symptom After resetting a C250 M1 to factory defaults, if the network cable is connected to management port 2, the restored IP doesn't ping other addresses. Factory default mode is not supposed to be used for normal operation. If ethernet management port 2 is used it gets a static IP used by Cisco even if DHCP is enabled.

Workaround Connect to management port 1 instead. (CSCte93298)

Release 1.0(1d)

The following caveats were opened in UCS software release 1.0(1d) and are still unresolved.

Misc

Symptom The following message appears after installation or upgrade to ESX 4.0 vSphere:

```
Error:TSC: 1137350434cpu0 :0)NUMA : 827 Signficant imbalance between NUMA nodes detected.
Performance may be impacted.:
```

Workaround There are two possible workarounds.

Option 1: Ensure that memory configuration is equal across both processors. Ensure that there are equal amounts of DIMMs of the same size and speed inserted in the DIMM sockets.

Option 2: Reboot system and enter BIOS setup by pressing F2. Go to **Advanced-->Memory Configuration-->Memory RAS --> Performance Configuration**--> and change NUMA Optimized to Disabled. Press F10 to save and reboot. (CSCtc33846)

BIOS

Symptom When a configuration uses a large number of PCIE devices with Option ROM, a device's legacy Option ROM may not be loaded by BIOS, limiting the ability to boot from that device. The system BIOS searches for and executes Option ROM in the order it enumerates the PCIE devices. In some cases, the Option ROMs which gets loaded earlier may take all the available 128K space leaving no space for the remaining Option ROMs. This limitation is inherent in PC and server architecture.

Workaround There is no workaround. (CSCte19257)

Symptom When a USB keyboard or mouse is hot plugged during an Option ROM initialization or configuration screen, it may not work during BIOS POST. Only the hot-plugged keyboard/mouse will not work, other devices which are plugged-in before or after the Option ROM, will work.

Workaround Do not hot plug a USB keyboard/mouse during Option ROM initialization or configuration. (CSCtb84361)

Symptom After replacing the CMOS battery and reconnecting AC power, the system does not restart.

Workaround None, the server needs to be sent back to Cisco for recovery. (CSCtd79490)

Symptom Installation of any UEFI Aware Operating System may result in a complete system failure.

Workaround No workaround exists. We do not support UEFI Aware Operating Systems. (CSCtd71780)

Web UI

Symptom A system configured to generate SNMP notification on hard drive removal is not generating the notification. SEL and IPMI events are being generated.

Workaround Use IPMI event monitoring or SEL instead of SNMP. (CSCtd82129)

Symptom On completion of the "Recover Corrupt BIOS" wizard, clicking on the "Finish" button brings up a dialog with the message "BIOS recovery may not be in a state in which it can be canceled. Attempt to cancel anyway?"

Workaround The message is shown erroneously. Simply click "Yes" to close the message dialog. (CSCtd84141)

Symptom A name without domain part used during login in a scenario where authentication fails over from AD to CIMC does not succeed.

Workaround To connect to an AD server you need to use the full form of a user name (like bob@domain.com, even if domain.com had been specified in AD configuration). If this fails because the AD server is unreachable then login with the partial name. (CSCtd74258)

Release 1.0(1)

The following caveats were opened in UCS software release 1.0(1) and are still unresolved.

BIOS

Symptom Faulty DIMMs size and speed are sometimes reported in SMBIOS Type 17. The expected behavior is to report "No DIMM" for failed DIMM slots.

Workaround The user should not assume all DIMMs reported through SMBIOS type 17 are working. Instead the user should go to BIOS setup to investigate working and failing DIMMs. You can also retrieve DIMM failure information from SEL. (**CSCtd44151**)

Symptom When CMOS is cleared by jumper or by CIMC, the date and time of the system does not get reset to a default value or keep its correct value.

Workaround After clearing the CMOS, set the correct date and time using the BIOS setup or booting to an OS. (**CSCtd38095**)

Symptom If the BIOS senses a faulty memory DIMM the LED next to the slot will not be lit until after the BIOS POST is complete.

Workaround None, the delay is unavoidable. The fault information is available in the BIOS setup memory information and the BMC SEL event log, you can check there to discover which DIMM is faulty. (**CSCtd44133**)

Symptom When VT-UTF8 is selected as a terminal type in BIOS Setup, junk characters are seen on the terminal.

Workaround Do not select the VT-UTF8 terminal type, instead use the VT100 default mode. (**CSCtb25124**)

Symptom After installing the CMOS clear jumper or clearing CMOS from CIMC, the date shows as 01/01/01XX. The expectation is to see the default date as 01/01/1998.

Workaround After clearing CMOS, the user is expected to set the correct date. Once the date is set to a correct date, it will persist. (**CSCtc14697**)

Symptom EFIOptimized is a command under the UEFI Shell used to enable EFI optimized mode which removes legacy components of the BIOS. When you enable this mode, the boot order is changed to boot from the EFI Shell only. When you disable this mode, the expectation is to see previously configured devices in the boot order, but in the case of the LSI 1064E SAS controller, you will not see the SAS drives in the BIOS Setup screen.

Workaround Reapply the desired boot order through Web UI or CLI interfaces of CIMC. (**CSCtc76805**)

GUI Interface

Symptom The WebUI **Admin->User Management->Sessions** page does not get refreshed automatically when the user launches the KVM console. When you go to the **Admin->User Management->Sessions** page and click on the "Launch KVM Console" button on the toolbar the KVM Console will pop-up however the KVM Console session is not reported on the Sessions page.

Workaround Click the "Refresh" button on the toolbar to see the new KVM session.(**CSCtb06106**)

Symptom Existing WebUI sessions are not terminated after changing the CIMC IP address. After changing the IP address, the WebUI will not respond to requests at the old IP address. You will need to log in to the WebUI again at the new IP address. The old WebUI sessions however will still be active and can be seen in the **Admin -> User Management -> Sessions** screen.

Workaround There are three possible workarounds:

1. After changing the IP address, manually log out from the session immediately and log in again using the new IP address.
2. After logging in using the new IP address, manually terminate the old sessions using the **Admin -> User Management -> Sessions** screen.
3. Do nothing and the sessions will automatically time out after the configured timeout period. (**CSCtb72716**)

IPMI

Symptom POST Quiet display function does not work as expected. POST diagnostic messages display on the screen instead of the Cisco logo.

Workaround Go to the BIOS setup and use the Quiet boot mode option to enable Quiet boot mode and display the Cisco logo if desired. (**CSCtb85059**)

Symptom   When using the IPMI SOL set configuration commands, IPMI SOL parameter changes can be applied even if the sub-function is disabled

Workaround   None. (**CSCtb64323**)

KVM

Symptom   Launching the KVM console with Microsoft Internet Explorer browsers fails and causes the message "Internet Explorer was not able to open this Internet site. The requested site is either unavailable or cannot be found." This error occurs with Microsoft Internet Explorer browsers with the advanced "Do not save encrypted pages to disk" option set.

Workaround   From the Internet Explorer toolbar, select **Tools -> Internet Options**. The Internet Options dialog will pop up. Click the Advanced tab and uncheck the "Do not save encrypted pages to disk" option. (**CSCtd19439**)

Documentation Errata

In the section titled "Active Directory" in the Cisco UCS C-Series Servers Integrated Management Controller CLI Configuration Guide, Release 1.2(1), and the Cisco UCS C-Series Servers Integrated Management Controller GUI Configuration Guide, Release 1.2(1), the following statement is incorrect:

"When Active Directory is enabled in the CIMC, all user authentication and role authorization is performed by Active Directory, and the CIMC ignores the local database. If the CIMC cannot connect to Active Directory, it reverts to the local database."

The correct behavior is as follows:

"When Active Directory is enabled, user authentication and role authorization are performed by Active Directory for user accounts not found in the local user database."

Related Documentation

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

- Cisco UCS C-Series Servers Integrated Management Controller CLI Configuration Guide, Release 1.1(1)
- Cisco UCS C-Series Servers Integrated Management Controller Configuration Guide, Release 1.1(1)
- Cisco UCS C-Series Servers Integrated Management Controller CLI Command Reference, Release 1.1(1)

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*

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