

# Release Notes for Cisco UCS Manager, Release 3.0, for Cisco UCS Mini

First Published: July 23, 2014 Last Updated: April 07, 2016

This document describes system requirements, new features, resolved caveats, known caveats and workarounds for Cisco UCS Manager software, Release 3.0, which supports only Cisco UCS Mini.

This document also includes the following:

- Current information that became available after the technical documentation was published
- Related firmware and BIOSes on blade and rack servers and other Cisco Unified Computing System (UCS) components
  associated with the release

Use this release note as a supplement with the other documents listed in documentation roadmap:

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

Contents of the various bundles for this release are described in:

Release Bundle Contents for Cisco UCS Software, Release 3.0

Make sure to review other available documentation on Cisco.com to obtain current information on Cisco UCS Manager.

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# **Revision History**

Table 1 shows the revision history:

Table 1 Online Change History

Release	Date	Description
3.0(1c)	July 23, 2014	Created release notes for Cisco UCS Manager, Release 3.0(1c).
3.0(1d)	November 4, 2014	Updated release notes for Cisco UCS Manager, Release 3.0(1d).
_	December 4, 2014	Updated release notes for Catalog Release 3.0.1d.T.
_	January 20, 2015	Updated release notes for Catalog Release 3.0.1e.T.
3.0(1e)	February 2, 2015	Updated release notes for Cisco UCS Manager, Release 3.0(1e).
3.0(2c)	March 13, 2015	Updated release notes for Cisco UCS Manager, Release 3.0(2c).
3.0(2c)	March 20, 2015	Replaced CSCut09526 with CSCut08588 in resolved caveats.
3.0(2c)	April 22, 2015	Added support for PIDs UCSC-MLOM-CSC-02 and UCSB-5108-DC2.
3.0(2c)	July 10, 2015	Added CSCuv04436 to the Open Caveats for 3.0(2c). This issue has a software advisory associated with it.
3.0(2d)	July 22, 2015	Updated release notes for Cisco UCS Manager, Release 3.0(2d).
_	August 10, 2015	Updated release notes for Catalog Release 3.0.2e.T.
3.0(2e)	December 03, 2015	Updated release notes for Cisco UCS Manager, Release 3.0(2e).
_	January 08, 2016	Updated release notes for Catalog Release 3.0.2f.T.
3.0(2f)	April 07, 2016	Updated release notes for Cisco UCS Manager, Release 3.0(2f).

# Introduction

Cisco UCS<sup>TM</sup> Manager provides unified, embedded management of all software and hardware components of the Cisco Unified Computing System<sup>TM</sup> (Cisco UCS) across multiple chassis, rack servers, and thousands of virtual machines. Cisco UCS Manager manages Cisco UCS as a single entity through an intuitive GUI, a command-line interface (CLI), or an XML API for comprehensive access to all Cisco UCS Manager functions.

This release of Cisco UCS Manager (Release 3.0) is a platform-specific release that runs only on the Cisco UCS 6324 fabric interconnect (FI).

# **System Requirements**

To use Cisco UCS Manager your computer must meet or exceed the following minimum system requirements:

• The Cisco UCS Manager GUI is available as either a Java-based application or a HTML5 GUI.



KVM functionality requires Java whether you use the Java-based application or HTML5 GUIs.

- Cisco UCS Manager GUI Java-based application requires a 1.6.x or 1.7.x version of the Java Runtime Environment (JRE). The Java-based GUI uses web start and supports the following web browsers:
  - Microsoft Internet Explorer 9.0 or higher
  - Mozilla Firefox 7.0 or higher
  - Google Chrome 14.0 or higher
- Cisco UCS Manager HTML5 GUI supports the following web browsers:
  - Microsoft Internet Explorer 10 or higher
  - Mozilla Firefox 26 or higher
  - Google Chrome 30 or higher
  - Apple Safari version 7 or higher
- Cisco UCS Manager is supported on the following operating systems:
  - Microsoft Windows 7 with minimum 4.0 GB memory
  - Red Hat Enterprise Linux 5.0 or higher with minimum 4.0 GB memory
- Cisco UCS Central, Release 1.2 or newer is required for use with Cisco UCS Manager, Release 3.0.

# **Hardware and Software Interoperability**

For a complete list of hardware and software interdependencies, see the *Hardware and Software Interoperability for UCSM Managed Servers* for a specific Cisco UCS Manager release, here:

http://www.cisco.com/c/en/us/support/servers-unified-computing/unified-computing-system/products-technical-reference-list .html.

# **Internal Dependencies**

Table 2 shows interdependencies between the hardware and versions of Cisco UCS Manager. Server FRU items such as DIMMs are dependent on their server type, and chassis items such as fans and power supplies work with all versions of Cisco UCS Manager.

Table 2 Internal Dependencies

Component	Recommended Minimum Software Version	Recommended Software Version
Servers		
B200 M3	3.0(1d)	3.0(2f)
C220 M3	3.0(1d)	3.0(2f)
C240 M3	3.0(1d)	3.0(2f)
B200 M4	3.0(2c)	3.0(2f)
B420 M3	3.0(2c)	3.0(2f)
B22 M3	3.0(2c)	3.0(2f)
C220 M4	3.0(2c)	3.0(2f)
C240 M4	3.0(2c)	3.0(2f)
Adapters	1	
UCS-VIC-M82-8P UCSB-MLOM-40G-0 UCSB-MLOM-PT-01	3.0(1d)	3.0(2f)
UCSB-MLOM-40G-03 UCSB-VIC-M83P-8P UCSC-MLOM-CSC-02	3.0(2c)	3.0(2f)
UCSC-PCIE-CSC-02	3.0(1d)	3.0(2f)
Chassis		
UCSB-5108-AC2	3.0(1e)	3.0(2f)
UCSB-5108-DC2	3.0(2c)	3.0(2f)
Fabric Interconnect	,	
Cisco UCS 6324	3.0(1e)	3.0(2f)
Power Supplies		<u> </u>
UCSB-PSU-2500ACDV	3.0(1e)	3.0(2f)
	•	•

Table 2 Internal Dependencies (continued)

Component	Recommended Minimum Software Version	Recommended Software Version
40GB Connections		
QSFP-4SFP10G-CU1M QSFP-4SFP10G-CU3M QSFP-4SFP10G-CU5M	_	
QSFP-4X10G-AC7M QSFP-4X10G-AC10M	_	_
QSFP-4X10G-AOC1M QSFP-4X10G-AOC2M QSFP-4X10G-AOC3M QSFP-4X10G-AOC5M QSFP-4X10G-AOC7M QSFP-4X10G-AOC10M	_	
10GB Connections		
SFP-10G-LR SFP-10G-LR-X SFP-10G-SR SFP-10G-SR-X SFP-H10GB-CU1M SFP-H10GB-CU3M SFP-H10GB-CU5M	_	
SFP-H10GB-ACU7M SFP-H10GB-ACU10M	_	_
SFP-10G-AOC1M SFP-10G-AOC3M SFP-10G-AOC5M SFP-10G-AOC7M SFP-10G-AOC10M	_	
8GB Connections		
DS-SFP-FC8G-SW DS-SFP-FC8G-LW	_	_
4GB Connections		I
DS-SFP-FC4G-LW DS-SFP-FC4G-SW	_	_
1GB Connections	1	1
GLC-GE-T GLC-LH-SM GLC-SX-MM GLC-T (V03 or higher)	_	_

# **Capability Catalog**

The Cisco UCS Manager uses the catalog to update the display and configurability of server components such as newly qualified DIMMs and disk drives. The Cisco UCS Manager Capability Catalog is a single image, but it is also embedded in Cisco UCS Manager. Cisco UCS Manager 3.0(x) releases work with any 3.0(x) catalog file, but not any other catalog versions. If a server component is not dependent on a specific BIOS version, using it and having it recognized by Cisco UCS Manager is primarily a function of the catalog version. The catalog is released as a single image in some cases for convenience purposes in addition to being bundled with UCS infrastructure releases. See Table 3 for details on the mapping of versions to bundles.

Table 3 Version Mapping

UCS Release	Catalog File	Adds Support for PID	Additional Parts Qualified for PID
3.0(2f)	_	_	_
_	ucs-catalog.3.0.2f.T.bin	Drives	Memory
		• UCS-HD12TB10K12G	• UCS-ML-1X324RU-A
		• UCS-HD1T7K12G	• UCS-ML-1X324RY-A
		• UCS-HD2T7K12G	• UCS-ML-1X324RZ-A
		• UCS-HD2T7KL12G	• UCS-MR-1X162RU-A
		• UCS-HD300G10K12G	• UCS-MR-1X162RY-A
		• UCS-HD300G15K12G	
		• UCS-HD450G15K12G	
		• UCS-HD4T7KL12G	
		• UCS-HD600G10K12G	
		• UCS-HD600G15K12G	
		• UCS-HD6T7KL4K	
		• UCS-HD900G10K12G	
		• UCS-SD120GBKS4-EV	
		• UCS-SD16TB12S3-EP	
		• UCS-SD16TB12S4-EP	
		• UCS-SD16TBKS4-EV	
		• UCS-SD240GBKS4-EV	
		• UCS-SD38TBKS4-EV	
		• UCS-SD400G12S4-EP	
		• UCS-SD480G12S3-EP	
		• UCS-SD480GBKS4-EV	
		• UCS-SD800G12S4-EP	
		• UCS-SD960GBKS4-EV	
3.0(2e)	_		
_	ucs-catalog.3.0.2e.T.bin	_	
3.0(2d)	ucs-catalog.3.0.2d.T.bin	_	

Table 3 Version Mapping (continued)

UCS Release	Catalog File	Adds Support for PID	Additional Parts Qualified for PID
3.0(2c)	ucs-catalog.3.0.2c.T.bin	Cisco UCS B200 M4 (UCSB-B200-M4) Cisco UCS B420 M3 (UCSB-B420-M3) Cisco UCS B22 M3 (UCSB-B22-M3) Cisco UCS C220 M4 (UCSC-C220-M4) Cisco UCS C240 M4 (UCSC-C240-M4) Cisco UCS VIC 1340 Adapter (UCSB-MLOM-40G-03) Cisco UCS VIC 1380 Adapter (UCSB-VIC-M83P-8P) Cisco UCS VIC1227 VIC MLOM (UCSC-MLOM-CSC-02) Cisco UCS 5108 server chassis - DC version (UCSB-5108-DC2)	
3.0(1e)	_	_	
_	ucs-catalog.3.0.1e.T.bin	_	
_	ucs-catalog.3.0.1d.T.bin	_	
3.0(1d)	_	_	
3.0(1c)	_	_	

# **New Hardware Features in Release 3.0**

#### Release 3.0(2c) adds support for the following:

- B200 M4 blade server
- B420 M3 blade server
- B22 M3 blade server
- C220 M4 rack server
- C240 M4 rack server
- Cisco UCS VIC 1340 and VIC 1380 adapters modular LOM (mLOM) for Cisco UCS B200 M3 and B200 M4 servers
- Cisco UCS VIC 1227 adapter mLOM for Cisco UCS C220 M4 and C240 M4 servers
- Cisco UCS 5108 server chassis with updated backplane DC version (UCSB-5108-DC2)

Release 3.0(1c) adds support for the following:

- 6324 fabric interconnect
- Dual-line power supply unit supporting 110V

# **New Software Features in Release 3.0**



If you want to refer to a list of supported OS in this release, check the Hardware and Software Interoperability Matrix for this release.

### **New Software Features in Release 3.0(1)**

Cisco UCS Manager, Release 3.0(1) supports most software features that are supported in Cisco UCS Manager, Release 2.2(1b), as well as the following new features:



For more information, refer to the "Unsupported Features" section on page 22.

#### Release 3.0(1c) adds support for the following:

- USB support for firmware upgrades
- Blade-level power capping
- · Staggered Boot
- QSFP+ (Scalability Port) Breakout Support
- Licensing Support for QSFP+

### New Software Features in Release 3.0(2)

Cisco UCS Manager, Release 3.0(2) supports the following software features that are supported in Cisco UCS Manager, Release 2.2(2c) and Release 2.2(3a):

- Tiered Port-Licensing for direct-connect C-Series servers
- Smart Call Home Enhancements
- BIOS/CIMC secure boot support for C-series servers
- DIMM blacklisting support for C-series servers
- ENIC DPDK Integration
- Monitoring of the IOM/FI interfaces
- · LAN and SAN topology information
- Scriptable vMedia
- NetFlow support
- Pre-Upgrade Validation Checks
- GPU Firmware Management
- Cisco VIC Driver Enhancements:
  - Adaptive Interrupt Coalescing (AIC)
  - Accelerated Receive Flow Steering (ARFS)
  - netQueue Support
- Wear-Level Monitoring on Flash Adapters
- KVM/vMedia Client Enhancements
- Support for 'lacp suspend-individual' on Uplink Port-Channel



For information on unsupported features, refer to the "Unsupported Features" section on page 22.

#### Release 3.0(2c) adds support for the following:

- Fibre Channel NPV support
- HTML5 GUI
- PSU Firmware Management
- Ethernet Switch Mode
- Support for newly reserved VLAN IDs from 3968 to 4047 and 4092 to 4096.

# **Resolved Caveats**

Resolved caveats are provided in the following release-specific tables:

- Resolved Caveats in Release 3.0(2f), page 9
- Resolved Caveats in Release 3.0(2e)T, page 12
- Resolved Caveats in Release 3.0(2d), page 12
- Resolved Caveats in Release 3.0(2c), page 13
- Resolved Caveats in Release 3.0(1e), page 14
- Resolved Caveats in Release 3.0(1d), page 14
- Resolved Caveats since Release 2.2(1b), page 15

#### The following caveats are resolved in Release 3.0(2f):

Table 4 Resolved Caveats in Release 3.0(2f)

Defect ID	Description	First Bundle Affected	Resolved in Release
CSCuw78688	System outage no longer occurs during an FI reboot or UCSM activation to a new version where the DME database having a corrupted entry.	2.2(3a)A	3.0(2f)A
CSCur48661	Global service profile association no longer fails with a 'failed to copy images' error.	2.2(3b)A	3.0(2f)A
CSCus11782	After rebooting a Fabric Interconnect (FI) that is operating in the FC end-host mode, all member links of the SAN port channel come up.	2.2(1d)A	3.0(2f)A
CSCus76125	Global service profile now resolves the LAN ping group even when the ping group is created in Cisco UCS Manager.	2.2(3d)A	3.0(2f)A
CSCus82914	Configuring SPAN on Cisco UCS fabric interconnects for all VLANs including vMotion and storage Ethernet no longer decreases performance.	2.1(3a)A	3.0(2f)A
CSCuv06504	The svc_sam_dme process is no longer crashing during a steady state of operation when a database (db) corruption is detected primarily on the subordinate fabric interconnect.	2.2(3d)A	3.0(2f)A
CSCux10203	When you decommission a C-Series server after it was discovered in direct attached configuration, and the direct attached switch port was changed from Ethernet to FC mode, the following error message no longer appears:	2.2(3h)A	3.0(2f)A
	"Warning : if_index 0x1a01a000[Ethx/x] does not exists in VLAN database#ERROR"		

Table 4 Resolved Caveats in Release 3.0(2f) (continued)

Defect ID	Description	First Bundle Affected	Resolved in Release
CSCuo93591	For a fabric interconnect in end-host mode, the MAC address table aging time no longer gets stuck at 300 regardless of the configuration.	2.2(1c)A	3.0(2f)A
CSCup95855	FSM tasks are no longer stuck in the throttled state in Cisco UCS Manager during Cisco UCS C240 M3 server upgrade.	2.2(1d)A	3.0(2f)A
CSCur01185	The HA policy of Reset is no longer triggering the fabric interconnect to reset.	2.2(1d)A	3.0(2f)A
CSCus32933	Cisco UCS Manager now displays an error message when a WILL_BOOT_FAULT event is raised because of an incorrect CPLD version.	2.2(1a)A	3.0(2f)A
CSCus34689	When using Cisco UCS Manager with C-Series integration, Cisco UCSM GUI no longer displays the following message on hovering between the C-Series servers and FIs:	2.2(1b)A	3.0(2f)A
	"[n] links(1 through FEX) between Server [n] and Fabric Interconnect [A/B] (primary/subordinate) ([n] links down)"		
CSCus73964	When you download an infrastructure software bundle onto a system where the same infrastructure software bundle was previously installed, but was subsequently deleted, the UCS Manager FIs, and IOMs no longer downgrade to that software bundle.	2.1(3e)A	3.0(2f)A
CSCus93431	Adding other storage, such as a local disk or a USB to a SAN boot policy no longer deletes the SAN boot policy from Cisco UCS Manager.	2.2(3c)A	3.0(2f)A
CSCut78943	When making changes to vNICs or vHBAs that will be provisioned on Cisco Virtual Interface Cards (VICs) 1340 and 1380 adapters, a warning on the placement order impact appears.	2.2(3c)A	3.0(2f)A
CSCuu04780	Erroneous interrupts from the Chassis locator LED no longer cause dmserver cores on the fabric interconnect.	3.0(2c)A, 3.0(2d)A	3.0(2f)A
CSCuv85779	FSM association is no longer stuck in copyRemoteStage on peerdown.	2.2(3a)A	3.0(2f)A
CSCuw44595	DIMMs with correctable ECC errors are marked Inoperable or Degraded even though correctable errors do not affect normal system operation. This issue is now resolved.	2.2(3a)A	3.0(2f)A
CSCux76128	Firmware Auto Install upgrade validation fails as expected when upgrading to Cisco UCS Manager Release with deprecated hardware. Auto Install can now be initiated by using the force option either through the GUI or the CLI.	2.1(3j)A	3.0(2f)A

# The following caveats are resolved in Release 3.0(2e):

Table 5 Resolved Caveats in Release 3.0(2e)

Defect ID	Description	First Bundle Affected	Resolved in Release
CSCus64439	Cisco UCS Manager Mezz logs and VMware vmkernel logs no longer indicate storage latency and numerous FNIC aborts.	2.0(1q)B	3.0(2e)B
CSCuv32417	Cisco B200 M4 and B420 M4 blade servers that boot in UEFI mode will not reboot unexpectedly.	3.0(2d)B	3.0(2e)B
	Note BIOS POST not being set as complete, which causes the next shallow discovery to reboot the server, has been resolved. Shallow discovery can occur because of different events including Cisco UCS Manager cluster failover, CIMC reset, or chassis reacknowledgment.		
CSCuv72663	When the FC port on the UCS Mini Fabric interconnect is directly connected to an IBM Storwize V5000 storage processor in FC Mode, if the FC link is disrupted, for example by power-cycling the IBM, placing the IBM in service mode, or removing the IBM from service mode, the FC port will reconnect after the power cycling is completed or the storage processor has completely reboot itself.	3.0(2d)A	3.0(2e)A
CSCuv83954	Traffic continues to be forwarded downstream to the servers from an external host or from another server in the same setup after a reset, reboot, HIF flap, or port channel flap.	3.0(2d)A	3.0(2e)A
CSCuw50417	After upgrading the BIOS of Cisco UCS B200 M3 servers to Release 3.0(2e), the OS no longer displays the following error message if the OS boot time is exceptionally slow:  Initializing Power Management	3.0(1a)B	3.0(2e)B
	Power: 2568: No supported CPU power management technology detected "Intel Enhanced SpeedStep is supported but disabled in BIOS"		
CSCus56140	Fabric Interconnect failover status in a cluster is no longer stuck in <b>Switchover In Progress</b> when the management interface of the primary fabric interconnect is down for more than the Management Interface Monitoring Period.	2.2(3a)A	3.0(2e)A
CSCut10525	After updating the firmware on Cisco UCS B200 M4 servers to Release 3.0(2e), the following error is no longer displayed in the fault summary:	2.2(4c)B	3.0(2e)B
	FlexFlash FFCH_ERROR_OLD_FIRMWARE_RUNNING		
CSCut99437	A B200 M4 blade without a RAID controller installed no longer fails discovery with following error:	2.2(3d)B	3.0(2e)B
	PciAddress of Storage Controller not found		

# The following caveats are resolved in Release 3.0(2e)T:

Table 6 Resolved Caveats in Release 3.0(2e)T

Defect ID	Description	First Bundle Affected	Resolved in Release
CSCuu15465	While trying to downgrade board controller to a lower version for Cisco UCS B200-M4 servers, Cisco UCS Manager will raise a firmware activation failure fault.	3.0(2a)A	3.0(2e)T

### The following caveats are resolved in Release 3.0(2d):

Table 7 Resolved Caveats in Release 3.0(2d)

Defect ID	Description	First Bundle Affected	Resolved in Release
CSCuv04436	Cisco UCS B200 M4 servers with the following CPUs will not experience significant performance degradation:	3.0(2c)A	3.0(2d)A
	• E5-2667 v3		
	• E5-2643 v3		
	• E5-2640 v3		
	• E5-2637 v3		
	• E5-2630 v3		
	• E5-2630L v3		
	• E5-2623 v3		
	• E5-2620 v3		
	• E5-2609 v3		
CSCus85186	After activating Cisco Trusted Platform Module (TPM), the enable and active statuses will not remain as disabled and deactivated at the BIOS prompt.	2.2(1d)B	3.0(2d)A
CSCut70585	After a NetApp C-mode connection toggle or FI reboot, the port will not lose access to the NetApp CMOS FCoE target.	3.0(2c)A	3.0(2d)A
CSCuu51652	When two VMs are pinned on different Cisco UCS Mini FIs, traffic will be forwarded downstream to the servers.	3.0(1c)A	3.0(2d)A
CSCur86104	When the FC is directly connected via the FC storage port on the FI, if the physical connection is manually disconnected, for example, pulling the cable from the SFP or rebooting the storage processor on an appliance, the FC connectivity will reconnect after the cable has been reconnected or the storage processor has completely reboot itself.	3.0(1c)A	3.0(2d)A
CSCut43895	The following errors will not happen on a dmserver restart:	3.0(2c)A	3.0(2d)A
	<ul> <li>In Cisco UCS Manager, FI-IOM remains stuck in the discovery/configuration state.</li> </ul>		
	• The FI-IOM shows high CPU usage.		
CSCuu90088	Standalone catalog upgrade from Cisco UCS Manager 3.0(1x) will no longer fail.	3.0(2c)A	3.0(2d)A

# The following caveats are resolved in Release 3.0(2c):

Table 8 Resolved Caveats in Release 3.0(2c)

Defect ID	Description	First Bundle Affected	Resolved in Release
CSCut08588	Installing the license on the Cisco UCS Mini scalability port no longer fails with the following error message:	3.0(1d)A	3.0(2c)A
	License file SKU is different than supported in FI		
CSCuj74570	B420 M3 with UCSB-MLOM-PT-01 installed no longer reboots for discovery when first IOM is upgraded to 2204XP.	2.1(2a)B	3.0(2c)A
CSCu138768	"Management services are unresponsive" fault no longer displayed in Cisco UCS Manager unless there is actually an HA condition failure.	2.1(1e)A	3.0(2c)A
CSCul44120	Cisco UCS blade servers performing a PXE boot from a Citrix PVS system no longer fail after the initial bootloader initialization with a "No API found" error.	2.1(2a)B	3.0(2c)B
CSCum43435	The Cisco UCS VIC 1280 adapter on a Cisco UCS B440 M2 blade no longer hangs during PXE boot.	2.2(1b)B	3.0(2c)B
CSCum51025	Cisco UCS Manager domains registered in Cisco UCS Central no longer fail during scheduled backups.	2.2(1b)A	3.0(2c)A
CSCum60793	Cisco UCS Manager no longer reports 'mount suspend success' to operations manager errors when UCS becomes unreachable or unregistered with Cisco UCS Central.	2.1(2c)	3.0(2c)A
CSCum87525	The httpd.sh process on the subordinate FI no longer crashes after upgrading to 2.2(2c) from 2.1(3a) via auto install.	2.2(1b)A	3.0(2c)A
CSCum95854	Cisco UCS Manager no longer frequently closes with an "event sequencing is skewed" error.	2.2(2c)A	3.0(2c)A
CSCum98771	User no longer receives config failure message 'Flexflash controller error, probably not supported, not equipped or inoperable' when Cisco UCS Manager is updated from 2.1(2a) or above to 2.2(1) with FlexFlash State enabled.	2.2(1b)A	3.0(2c)A
CSCun94906	The Cisco UCS Manager DME no longer crashes when a SP is referring to a SP template and Cisco UCS Manager is connected to Cisco UCS Central during policy ownership conflict checks.	2.2(1b)B	3.0(2c)B
CSCuo09527	A blade running on a 2-socket B420 M3 no longer boots to the BIOS screen after an update if the boot order is configured in the Cisco UCS Manager and the BIOS is set to strict mode.	2.2(1b)A	3.0(2c)A
CSCuo34760	vEthernet interfaces and VIFs no longer remain in down state if the primary FI in a HA cluster is rebooted and comes up as the secondary FI.	2.1(2d)A	3.0(2c)A
CSCup07488	ECC sensors no longer read or report invalid "Upper Non-Recoverable" data when there are existing failed PECI transactions on a blade.	2.2(2c)B	3.0(2c)B
CSCup47504	Cisco UCS VIC 1240 adapter no longer fails to complete the PXE boot process due to missing DHCP offer on a Cisco UCS 6200 FI using an ASA as the DHCP relay.	2.2(1d)B	3.0(2c)B
CSCup88161	6248 fabric interconnects no longer crash if a memory location that was freed is being used.	2.1(1d)A	3.0(2c)A
CSCuq09971	VIC cards no longer fail with an "identify failed" message when attempting to access the card from CIMC.	2.1(2c)A	3.0(2c)A

Table 8 Resolved Caveats in Release 3.0(2c) (continued)

Defect ID	Description	First Bundle Affected	Resolved in Release
CSCuq46105	UCS Manager now uses power sequencer version 3.0 to address the rare issue of an unexpected reboot to the Cisco UCS 6248 FI.	2.2(1c)A	3.0(2c)A
CSCuq74472	Unnecessary thermal events on IOM stating that the thermal sensor reading is not available no longer occur.	2.1(3c)A	3.0(2c)A
CSCuq92477	Infra bundle upgrades from no longer fail if performed from Cisco UCS Central.	2.2(3a)A	3.0(2c)A
CSCur29264	The security vulnerability identified by Common Vulnerability and Exposures (CVE) CVE-2014-3566 is addressed.	2.2(3a)A	3.0(2c)A
CSCur66094	Multiple components no longer stick in discovery or upgrade state with no FSM progression.	2.2(2c)A	3.0(2c)A

### The following caveats are resolved in Release 3.0(1e):

Table 9 Resolved Caveats in Release 3.0(1e)

Defect ID	Description		Resolved in Release
CSCur86084	Packets with an IP header matching the hex value of 0x67 are no longer dropped by the Cisco UCS 6324 FI.	3.0(1c)A	3.0(1e)A

#### The following caveats are resolved in Release 3.0(1d):

Table 10 Resolved Caveats in Release 3.0(1d)

Defect ID	Description	First Bundle Affected	Resolved in Release
CSCuq35685	IGMPv2 traffic no longer causes MAC flapping on upstream switches when the FI has multiple uplinks connecting to different switches.	2.2(1b)A	3.0(1d)A
CSCur01379	The security vulnerabilities identified by Common Vulnerability and Exposures (CVE) CVE-2014-7169, CVE-2014-6271, CVE-2014-6277, CVE-2014-7186, CVE-2014-7187, and CVE-2014-6278 are addressed.	2.0(1q)A	3.0(1d)A
CSCuq04083	Trunking on uplink port-channel no longer fails when VSANs are mapped to VLANs with the same ID.	3.0(1c)A	3.0(1d)A
CSCuq00171	Zone server crashes no longer occur when you reduce the zone database size.	3.0(1c)A	3.0(1d)A

#### The following resolved caveats in release 3.0(1c) are the only caveats resolved in this release since Release 2.2(1b):



Cisco UCS Manager, Release 3.0(1c) does not include 2.2(2x) resolved caveats except those specifically listed in Table 11.

Table 11 Resolved Caveats since Release 2.2(1b)

Defect ID	Description	
CSCuj48002	vIFs and vNICs no longer fail to come up after servers are reset.	
CSCul74278	Cisco UCS Manager mode- BIOS no longer fails to find local boot device.	
CSCu196021	dcosAG process no longer crashes after upgrading to Cisco UCS Manager, Release 2.2(1b).	
CSCum02561	Server no longer reboots after an infra-only upgrade followed by a service profile change.	
CSCum04646	FI no longer reboots during snmpwalk when ldap config is enabled.	
CSCum25003	Associated LSP/GSP events are no longer sent every 3 minutes to Cisco UCS Central inventory.	
CSCum51025	Cisco UCS Manager scheduled backups from Cisco UCS Central no longer fail.	
CSCum57954	Excessive dropped pings eliminated during vmotion on ESXi VMFEX DVS.	
CSCum63448	Blades no longer prevent non-disruptive changes if firmware status gets stuck in "activating" state.	
CSCum82888	Access to Cisco UCS Manager via GUI or CLI using VIP is no longer blocked if default keyring is deleted after an upgrade to Cisco UCS Manager Release 2.2(1b).	
CSCun01514	Changes to boot order between SAN & other devices via CLI or XML API no longer fails.	
CSCun19289	FI mgmt0 no longer drops packets coming from blades behind that FI.	
CSCun21077	Blades running ESXi OS and vEthernet no longer enforce QoS policy bandwidth cap of 10GB when hardware allows for higher speeds unless such cap is configured by user.	
CSCun70365	Service profile association no longer failing at BIOS post completion stage.	
CSCun93977	Logical switch GUID no longer gets changed after a backup and restore config event.	
CSCuo01287	CLI now provides the ability to report packet count per QoS class.	
CSCup43698	LEDs no longer light up for wrong ports when configured with both FC and Ethernet ports.	

# **Open Caveats**

Open caveats are provided in the following release-specific tables:

- Open Caveats in Release 3.0(2e), page 16
- Open Caveats in Release 3.0(2d), page 16
- Open Caveats in Release 3.0(2c), page 17
- Open Caveats in Release 3.0(2a), page 19
- Open Caveats in Release 3.0(1e), page 19
- Open Caveats in Release 3.0(1c), page 20
- Open Caveats in Release 3.0(1a), page 22

# The following caveats are open in Release 3.0(2e):

Table 12 Open Caveats in Release 3.0(2e)

Defect ID	Symptom	Workaround
Defect ID CSCus55944	Adding a VLAN to a vNIC on an service profile template reboots the rack server that is associated with the inherited service profile.	<ol> <li>Workaround</li> <li>To work around this issue, do the following:</li> <li>Run show detail under both the adaptors and note the managing instance of both the adaptors.</li> <li>Shut down the host-facing port from FI-A that is connected to the server under question.</li> <li>Wait for 5 minutes</li> <li>Repeat Step 1 and ensure that the subordinate FI is the managing instance</li> </ol>
		<ul><li>for both the adaptors.</li><li>5. Apply the service profile configuration change. This initiates reboot.</li><li>The adaptor activation status will be ready.</li></ul>
		Any subsequent service profile configuration change will not initiate reboot unless the configuration itself requires a reboot.

# The following caveats are open in Release 3.0(2d):

Table 13 Open Caveats in Release 3.0(2d)

Defect ID	Symptom	Workaround
CSCuv32417	Cisco B200 M4 and B420 M4 blade servers that boot in UEFI mode reboot unexpectedly when BIOS POST is not marked as complete.	There is no workaround for this issue.
CSCuv72663	When the FC port on the UCS Mini Fabric interconnect is directly connected to an IBM Storwize V5000 storage processor in FC Mode, if the FC link is disrupted, for example by power-cycling the IBM, placing the IBM in service mode, or removing the IBM from service mode, the FC port will not come-up after the power cycling is completed or the storage processor has completely reboot itself.	<ol> <li>To work around this issue, do the following:</li> <li>Change the fill-pattern from ARBFF to IDLE.</li> <li>UCSM &gt; FI &gt; FC Interface &gt; Interface Properties &gt; Select IDLE fill word</li> <li>Bounce the ports.</li> </ol>
CSCuv83954	Traffic may not be forwarded downstream to the servers from an external host or from another server in the same setup after a reset, reboot, HIF flap, or port channel flap.	To work around this issue, <b>shut</b> and then <b>no shut</b> the uplink interfaces or port-channel.

# The following caveats are open in Release 3.0(2c):

Table 14 Open Caveats in Release 3.0(2c)

Defect ID	Symptom	Workaround
CSCuv46749	When using Cisco B200 M4 blade servers with the UCSB-MRAID12G storage controller, the following random transient alerts or faults are reported, and these alerts or faults get cleared in 30 to 40 secs.	This issue has no known workaround.
	Critical Fault [F1004] Controller Inoperable, Reason:     Device reported corrupt data	
	• Critical Fault [F1004] Controller Inoperable, Reason: Device non-responsive	
	Though these alerts include 'Device reported corrupt data' faults, there is no user data corruption involved.	
	When a Storage Controller device is non-responsive, the virtual drives and local disks for this controller are also reported as Inoperable as a result.	
CSCuu04780	Erroneous interrupts from the Chassis locator LED cause dmserver cores on the fabric interconnect. Thermal alerts are observed shortly before the core dump happens.	When this issue occurs, contact TAC to apply the workaround.
CSCuv04436	Cisco UCS B200 M4 servers with the following CPUs may experience significant performance degradation:	There is no workaround for this issue. See the Software Advisory.
	• E5-2667 v3	A patch will be released in July, 2015.
	• E5-2643 v3	
	• E5-2640 v3	
	• E5-2637 v3	
	• E5-2630 v3	
	• E5-2630L v3	
	• E5-2623 v3	
	• E5-2620 v3	
	• E5-2609 v3	
CSCus12618	When installing RHEL 7 on an iSCSI LUN using iBFT with multiple paths to the target, the OS installs without issues, but after each reboot, the OS takes a long time to come up. This issue occurs on all supported Cisco UCS B-Series servers with VIC adaptor on RHEL 7 installation where the ip=ibft kernel parameter was passed on the kernel command line for iSCSI multipath installation.	<ul> <li>To work around this issue, try one of the following:</li> <li>Use a single path during installation, and add a second path after the installation is complete.</li> <li>Forcefully bring the other interfaces in the same subnet in which the iFBT interfaces are configured, which allows the iSCSI session to go through those interfaces. Use the kickstart file to bring interfaces up during installation.</li> </ul>

Table 14 Open Caveats in Release 3.0(2c) (continued)

Defect ID	Symptom	Workaround
CSCur86104	When the FC is directly connected via the FC storage port on the FI, if the physical connection is manually disconnected, for example, pulling the cable from the SFP or rebooting the storage processor on an appliance, the FC connectivity does not reconnect after the cable has been reconnected or the storage processor has completely reboot itself.	To work around this issue, try one of the following:  Reseat the SFP.  Hard code the link speed to 4 Gigs.  Change the word fill from "ARBFF" to "IDLE".  UCSM > FI > FC Interface > Interface Properties > select "IDLE" fill word.  Bounce the ports.
CSCut04335	The License State and License Grace Period for the scalability port may not be in sync with the Operational State and Grace Period Used displayed in UCS Manager.	Enabling or disabling the break out ports on the peer FI may correct this issue.
CSCuu51652	When two VMs are pinned on different Cisco UCS Mini FIs, certain traffic may not be forwarded downstream to the servers.	To work around this issue, try the following steps:  1. Identify the erroneous MAC entry that is out of sync between the hardware and software.  2. Use back door Cisco NX-OS CLI to configure as static MAC on the vEthernet interface.  Note  Contact Cisco TAC if you need assistance with back door Cisco NX-OS CLI configuration.  3. Shut then no shut the vEthernet interface.
CSCut43895	<ul> <li>The following errors may happen on a dmserver restart:</li> <li>In Cisco UCS Manager, FI-IOM remains stuck in the discovery/configuration state.</li> <li>The FI-IOM shows high CPU usage.</li> </ul>	Contact Cisco TAC to resolve this issue.
CSCut70585	After a NetApp C-mode connection toggle or FI reboot, the port may lose access to the NetApp CMOS FCoE target.	To recover from this issue, try to shut no shut the port.
CSCuu90088	Standalone catalog upgrade fails when upgrading from Cisco UCS Manager release 3.0 (1.x).	To avoid this issue, do a full Cisco UCS Manager Infra bundle upgrade.

# The following caveats are open in Release 3.0(2a):

Table 15 Open Caveats in Release 3.0(2a)

Defect ID	Symptom	Workaround
CSCuu15465	While trying to downgrade board controller to a lower version for Cisco UCS B200-M4 servers, Cisco UCS Manager will call for a power cycle.	This issue has no known workaround.

### The following caveats are open in Release 3.0(1e):

Table 16 Open Caveats in Release 3.0(1e)

Defect ID	Symptom	Workaround
CSCuw36128	Under rare conditions, there may be statsAG mts q leaks, and the following fault may be raised:	When this issue occurs, restart UCSM processes through the CLI:
	Major Fault "F0885: Fabric Interconnect B inventory	UCS-A# connect local-mgmt
	is not complete card-inventory, eth-pc-inventory, eth-port-inventory, f	UCS-A(local-mgmt)# pmon stop
	c-pc-inventory, fc-port-inventory, mgmt-port-inventory, remote-eth-port-inventory, switch-fru seen. (It could be for either A or B side, or even both)	UCS-A(local-mgmt)# pmon start
	The error messages shown in the statsAG log file may	
	<pre>include the following: [MAJOR][0x7544eb90][date][app_sam_statsAG:pollF] Error getting switch FRU inventory; details: SC_Send_tlv(3640) cmd_ucsm_req_send_recv() failed(-1) [MAJOR][0x7544eb90][ date][app_sam_statsAG:getSw] Error getting Line-Card inventory; details: Internal Error: SC_Execute_show_command() returned -1 [MAJOR][0x7544eb90][ date][app_sam_statsAG:getPh] Error getting physical Ethernet port inventory; details: Error in pm_get_if_index_listing(), errno: 16 [MAJOR][0x7544eb90][ date][app_sam_statsAG:getRe] Error getting remote physical Ethernet port inventory; details: Error in pm_get_if_index_listing(), errno: 16 [MAJOR][0x7544eb90][ date][app_sam_statsAG:getPh] Error getting physical FC port inventory; details:</pre>	

# The following caveats are open in Release 3.0(1c):

Table 17 Open Caveats in Release 3.0(1c)

Defect ID	Symptom	Workaround
CSCur86104	When the FC is directly connected via the FC storage port on the FI, if the physical connection is manually disconnected, for example, pulling the cable from the SFP or rebooting the storage processor on an appliance, the FC connectivity does not reconnect after the cable has been reconnected or the storage processor has completely reboot itself.	To work around this issue, try one of the following:  Reseat the SFP.  Hard code the link speed to 4 Gigs.  Change the word fill from "ARBFF" to "IDLE".  UCSM > FI > FC Interface > Interface Properties > select "IDLE" fill word.  Bounce the ports.
CSCtr05546	A hard-pinned vNIC does not go down after VLAN is removed from pin group.	Do not use pin group policy for a vNIC.
CSCug61578	In some cases, when the mgmt 0 interface on the primary FI goes down, SNMP traps are not triggered.	This issue has no known workaround.
CSCum72579	There is no mac entry on Cisco UCS Mini for IP multicast when viewing debug command output.	Hardware forwarding mechanism is different for Cisco UCS Mini, so <b>debug</b> CLI has changed.  For IP multicast, use <b>show hard int libsdk mtc l3 route-mc valid</b> command to dump fwding entries.
CSCun80871	Cisco UCS Mini does not support some commands that are supported in classic Cisco UCS Manager releases. For example, <b>fex</b> and <b>iom</b> are not supported and all related commands are inapplicable. Additionally, some <b>show</b> commands do not generate output and some <b>scope</b> commands will return an error.	No workaround is required; avoid use of commands not supported in Cisco UCS Manager, Release 3.0.
CSCuo01287	Although output for <b>show queuing interface</b> command displays drop count and per-VL/qos Rx counters, it does not include per-VL Tx statistics.	This issue has no known workaround.
CSCuo36944	In some cases when rebooting Cisco UCS Mini while connected to Cisco Nexus 5000, Release 5.1(3) or older via FCoE uplink, vFC may not come up and, as a result, corresponding vSAN on Nexus 5000 may end up isolated.	Upgrade Cisco Nexus 5000 to a newer release than 5.1(3).
CSCuo74243	In rare cases, when port-channel member interface is flapped, some traffic may get dropped.	This issue has no known workaround.

Table 17 Open Caveats in Release 3.0(1c) (continued)

Defect ID	Symptom	Workaround
CSCup45483	In some cases, with one or a combination of the following configurations, one or all FC/FCoE up-links will remain down and, if the up-links do come up, there may be traffic disruptions and timeouts on all interfaces:  a. More than one FCoE port channel up-link.	For cases a. and b., disable all except one port-channel.  For cases c. and d., it is advisable to convert multiple up-links to a single port-channel.  In general, there should be exactly one up-link connection to the same switch.
	<ul><li>b. More than one FC port channel up-link.</li><li>c. More than one FCoE up-link (non port-channel).</li></ul>	connection to the same switch.
	d. More than one FC up-link (non port-channel).	
CSCup67796	In some cases, after activating Cisco UCS Manager on a single FI-IOM in clustering mode, user is unable to login via the GUI or access Cisco UCS Manager CLI commands.	It takes longer for Cisco UCS Manager HA election to complete on a system with a single FI-IOM in clustering mode (can take several minutes). Until the FI-IOM assumes the role of a primary node, Cisco UCS Manager will be inaccessible until FI-IOM becomes primary. You can check on progress by using the connect local-mgmt command followed by the show cluster state command.
CSCuu51652	When two VMs are pinned on different Cisco UCS Mini FIs, certain traffic may not be forwarded downstream to the servers.	To work around this issue, try the following steps:  1. Identify the erroneous MAC entry that is out of sync between the hardware and software.  2. Use back door Cisco NX-OS CLI to configure as static MAC on the vEthernet interface.  Note  Contact Cisco TAC if you need assistance with back door Cisco NX-OS CLI configuration.
CSCuu90088	Standalone catalog upgrade fails when upgrading from Cisco	3. Shut then no shut the vEthernet interface.  To avoid this issue, do a full Cisco UCS
	UCS Manager release 3.0 (1.x).	Manager Infra bundle upgrade.

#### The following caveats are open in Release 3.0(1a):

Table 18 Open Caveats in Release 3.0(1a)

Defect ID	Symptom	Workaround
CSCuw50417	After upgrading the BIOS of Cisco UCS B200 M3 servers to any release between 3.0(1c) and 3.0(2d), the OS may randomly report the following messages in the /var/log/boot.gz file of the OS if the OS boot time is exceptionally slow:	When this error occurs, it disables the OS PM capability, but has no known workaround to resolve it.
	Initializing Power Management  Power: 2568: No supported CPU power management technology detected  "Intel Enhanced SpeedStep is supported but disabled in BIOS"	

# **Known Limitations**

- "Unsupported Features" section on page 22
- "Default Zoning" section on page 23
- "Known Limitations and Behaviors" section on page 23

# **Unsupported Features**

#### The following features are not supported in Cisco UCS Manager, Release 3.0(1):

- Features, defect fixes, and platforms introduced in Cisco UCS Manager, Release 2.2(2c) and newer that are not explicitly called out in New Features or Resolved Caveats sections of this document.
- Some features introduced in Cisco UCS Manager, Release 2.2(1b) and earlier releases:
  - Ethernet Switching Mode (supported as of Release 3.0(2c))
  - FC End Host Mode (supported as of Release 3.0(2c))
  - Private VLANs
  - Port Security
  - KVM Virtualization is not tested (although not explicitly disabled)

#### The following features are not supported in Cisco UCS Manager, Release 3.0(2):

- Features, defect fixes, and platforms introduced in Cisco UCS Manager, Release 2.2(2c) and newer that are not explicitly
  called out in New Features or Resolved Caveats sections of this document.
- Some features introduced in Cisco UCS Manager, Release 2.2(3a) and earlier releases:
  - usNIC support for IP-routable transport
  - Stateless Offload for Overlay Networks (NVGRE / VXLAN)
  - PVLAN Enhancements

# **Default Zoning**

Default zoning is not supported in Cisco UCS, Release 2.1(1a) and later releases. This feature has been deprecated in Cisco UCS Manager, Release 2.1(1a). Cisco has not supported default zoning in Cisco UCS Manager since Cisco UCS Manager, Release 1.4 (April 2011). Fibre Channel zoning, a more secure form of zoning, is available in Cisco UCS Manager, Release 2.1(1a) and later releases. For more information about Fibre Channel zoning, see the Cisco UCS Manager configuration guides for your release.



All storage connectivity that relies on default zoning in your current configuration will be lost when you upgrade to Cisco UCS, Release 2.1(1a) or a later release. We recommend that you review the Fibre Channel zoning configuration documentation carefully to prepare your migration before you upgrade to Cisco UCS, Release 2.1(1a) or later. If you have any questions or need further assistance, contact Cisco TAC.

### **Known Limitations and Behaviors**

The following known limitations and behaviors are not otherwise documented:

Table 19 Known Limitations in Release 3.0

Defect ID	Symptom	Workaround	First Bundle Affected
CSCui95113	Blade discovery fails with the following error:  Warning F77960 2013-08-29T17:47:46.044 18211988 [FSM:STAGE:REMOTE-ERROR]: Result: end-point-unavailable Code: unspecified Message: sendSamDmeAdapterInfo: identify failed(sam:dme:ComputeBladeDiscover:NicPresence Peer) Warning F16520 2013-08-29T17:47:35.122 18211986 [FSM:STAGE:RETRY:]: detect mezz cards in 6/1(FSM-STAGE:sam:dme:ComputeBladeDiscover:NicP resencePeer)	This issue is found when adapters are in DIAG mode.	2.1(2a)B
CSCun25132	On platforms with OOB storage controller, Cisco UCS Manager displays usable (coerced) value in disk inventory section, which is different than the raw 'NumberOfBlocks' value displayed in catalog section.	This is a non-issue; Cisco UCS Manager is designed to report the coerced, or usable, size as reported by the LSI controller. Both the host and OOB interfaces report this same value.	2.2(1b)T

# **Related Documentation**

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

- Cisco UCS Documentation Roadmap
- Release Bundle Contents for Cisco UCS Software, Release 3.0

# Cisco UCS C-Series Rack Mount Server Integration with Cisco UCS Manager

For more information, refer to the related documents available at the following links:

- Cisco UCS C-series Rack Server Integration Guides
- Cisco UCS C-series Software Release Notes

# **Obtaining Documentation and Submitting a Service Request**

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see *What's New in Cisco Product Documentation*.

To receive new and revised Cisco technical content directly to your desktop, you can subscribe to the What's New in Cisco Product Documentation RSS feed. The RSS feeds are a free service.

This document is to be used in conjunction with the documents listed in the "Known Limitations" section.

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