Release Notes for Cisco UCS Diagnostics for B-Series Blade Servers, Release 1.0

This document describes system requirements, image download location, known caveats, and workarounds for Cisco UCS Diagnostics for B-Series Blade Servers, Release 1.0. This document also includes the following:

- Current information that became available after the technical documentation was published

- List of supported servers for the UCS Blade Server Diagnostics, Release 1.0

Make sure to review other available documentation on Cisco.com to obtain current information on Cisco UCS B-Series Blade Servers.

Contents

This document includes the following sections:

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Revision History

Table 1 shows the revision history:

Table 1   *Online Change History*

Release	Date	Description
1.0(4c)	June 28, 2018	Updated release notes for Cisco UCS Blade Server Diagnostics, Release 1.0(4c).
1.0(4a)	April 18, 2017	Updated "Supported Servers" table for B420, B260, B460, and B200 M4 servers.
1.0(4a)	August 5, 2016	Updated release notes for Cisco UCS Blade Server Diagnostics, Release 1.0(4a).
1.0(3a)	April 11, 2016	Updated release notes for Cisco UCS Blade Server Diagnostics, Release 1.0(3a).
1.0(1d)	July 7, 2015	Updated release notes for Cisco UCS Blade Server Diagnostics, Release 1.0(1d).
1.0(1c)	June 26, 2015	Updated release notes for Cisco UCS Blade Server Diagnostics, Release 1.0(1c).
1.0(1b)	October 14, 2014	Updated release notes for Cisco UCS Blade Server Diagnostics, Release 1.0(1b); removed "(1*x*)" designation from document title; added generic "Obtaining Documentation and Submitting a Service Request" section.
1.0(1a)	October 25, 2013	Created release notes for Cisco UCS Blade Server Diagnostics, Release 1.0(1a).

Introduction

Cisco UCS Blade Server Diagnostics tool for Cisco UCS Blade Servers enables you to verify the health of the hardware components on your servers. The diagnostics tool provides a variety of tests to exercise and stress the various hardware subsystems on the Cisco UCS Blade Servers, such as memory and CPU. You can use the tool to run a sanity check on the state of your Cisco UCS Blade Servers after you fix or replace a hardware component. You can also use this tool to run comprehensive burn-in tests before you deploy a new Cisco UCS Blade Server in your production environment.

Image Download Link

You can download the ISO image for the Cisco UCS Blade Server Diagnostics from the Cisco website at:

http://software.cisco.com/download/type.html?mdfid=283853163&i=rm

System Requirements

To use Cisco UCS B-Series Blade Servers, your computer must meet or exceed the following minimum system requirements:

- The Cisco UCS Manager GUI is a Java-based application which requires Java Runtime Environment (JRE) 1.6 or later.

- Cisco UCS Manager 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

  Adobe Flash Player 10 or higher is required for some features

- 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

Supported Servers

Table 2 lists the UCS B-Series Blade Servers that are supported for the UCS Blade Server Diagnostics, 1.0 release.

Table 2   Supported Servers

Component	Recommended Software Version
Servers	
B420 M4 E5-4600 v3	1.0(4c)
B420 M4 E5-4600 v4	
B260 M4 E7-4800 v3 B260 M4 E7-8800 v3	1.0(4c)
B260 M4 E7-4800 v4 B260 M4 E7-8800 v4	
B460 M4 E7-4800 v3 B460 M4 E7-8800 v3	1.0(4c)
B460 M4 E7-4800 v4 B460 M4 E7-8800 v4	
B22 M3	1.0(4c)
B200 M2	1.0(4c)
B200 M3	1.0(4c)
B200 M4 Intel E5-2600 v3	1.0(4c)
B200 M4 Intel E5-2600 v4	
B230 M2	1.0(4c)
B250 M2	1.0(4c)
B260 M4	1.0(4c)
B420 M3	1.0(4c)
B440 M2	1.0(4c)
B460 M4	1.0(4c)

New Hardware Features in Release 1.0

Release 1.0(4a) adds support for the following:

- Cisco UCS B260 and B460 M4 blade servers shipping with Intel Xeon E7-4800 v4 and E7-8800 v4 series CPUs
- Cisco UCS B420 M4 blade servers shipping with Intel E5-4600 v4 series CPUs

Release 1.0(3a) adds support for the following:

- Cisco UCS B200 M4 blade servers shipping with Intel E5-2600 v4 series CPUs

Release 1.0(1c) adds support for the following:

- Cisco UCS B420 M4 blade servers shipping with Intel E5-4600 v3 series CPUs
- Cisco UCS B260 M4 and B460 M4 blade servers shipping with Intel E7-4800 v3 series or E7-8800 v3 series CPUs

Release 1.0(1b) adds support for the following:

- Cisco UCS B200 M4 blade server.
- Cisco UCS B260 M4 blade server.
- Cisco UCS B460 M4 blade server.

Release 1.0(1a) adds support for the following:

- Cisco UCS B22 M3 blade server.
- Cisco UCS B200 M2 blade server.
- Cisco UCS B200 M3 blade server.
- Cisco UCS B230 M2 blade server.
- Cisco UCS B250 M2 blade server.
- Cisco UCS B420 M3 blade server.
- Cisco UCS B440 M2 blade server.

Resolved Caveats

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

- Resolved Caveats in Release 1.0(4c)
- Resolved Caveats in Release 1.0(3a)
- Resolved Caveats in Release 1.0(1b)

The following caveats were resolved in Release 1.0(4c):

Table 3   Resolved Caveats in Release 1.0(4c)

Defect ID	Symptom	First Release Affected	Resolved in Release
CSCvj73196	Diagnostics ISO appeared as an unsupported platform on blade servers that did not have PIDs beginning with UCSB. This issue has been resolved.	1.0(1d)	1.0(4c)

The following caveats were resolved in Release 1.0(3a):

Table 4   Resolved Caveats in Release 1.0(3a)

Defect ID	Symptom	First Release Affected	Resolved in Release
CSCuw90119	The UCS Diagnostic Tool no longer marks DIMM tests as failed for correctable ECC errors.	1.0(1d)	1.0(3a)

The following caveats were resolved in Release 1.0(1b):

Table 5   Resolved Caveats in Release 1.0(1b)

Defect ID	Symptom	First Release Affected	Resolved in Release
CSCui83062	When running the **show spd** command in the CLI, the diagnostic tool no longer incorrectly displays Serial Presence Detect (SPD) errors.	1.0(1a)	1.0(1b)
CSCuo25152	The CLI now correctly displays the Fusion ioDrive2 Mezzanine Flash card.	1.0(1a)	1.0(1b)
CSCuq45525	The SEL log is now cleared before running diagnostic tests.	1.0(1a)	1.0(1b)
CSCuq45512	Memory tests no longer fail if the error is correctable using Error-Correcting Code (ECC) memory.	1.0(1a)	1.0(1b)
CSCuo25091	The IO tab in the GUI (Server Information > Inventory > IO) now displays the correct information for the Fusion ioDrive2 Mezzanine Flash card and LSI Warpdrive Mezzanine Flash card.	1.0(1a)	1.0(1b)
CSCuq25281	The IO tab in the GUI (Server Information > Inventory > IO) now displays the correct information for the Fusion ioMemory3 Flash card.	1.0(1a)	1.0(1b)

Table 5 **Resolved Caveats in Release 1.0(1b) (continued)**

Defect ID	Symptom	First Release Affected	Resolved in Release
CSCuo24564	Server diagnostics no longer fail if there is a P2_TEMP_SENS error.	1.0(1a)	1.0(1b)
CSCuo61101	The SaveUSB test no longer passes in the CLI if the USB is not connected.	1.0(1a)	1.0(1b)
CSCuo88961	The CLI now correctly displays memory information for the Cisco UCS B230 M2 Blade server.	1.0(1a)	1.0(1b)

Open Caveats

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

Open caveats may be listed in association with the release in which they were first noticed or in the release identified as the first affected. Users should review open caveats in all releases to avoid overlooking a defect that may impact their release.

- Open Caveats in Release 1.0(4a)
- Open Caveats in Release 1.0(1c)
- Open Caveats in Release 1.0(1b)
- Open Caveats in Release 1.0(1a)

The following caveats were open in Release 1.0(4a):

Table 6　　*Open Caveats in Release 1.0(4a)*

Defect ID	Symptom	Workaround	First Release Affected
CSCva64192	The blade server diagnostics CLI for a Cisco UCS B200 or B420 M4 server displays an error message when the **server memory** command is run.	When this issue occurs, retrieve the server memory details from the blade server diagnostics GUI.	1.0(4a)
CSCva74940	When you run multiple tests from the test suite and view the log summary through the Blade Server Diagnostics GUI by using the scroll bar, the GUI becomes unresponsive. However, this issue does not impact the tests. The tests continue to run.	To avoid this issue, use the up and down arrows instead of the scroll bar.	1.0(4a)

The following caveats were open in Release 1.0(1c):

Table 7　　*Open Caveats in Release 1.0(1c)*

Defect ID	Symptom	Workaround	First Release Affected
CSCuu40670	Server information does not display information about the Cisco UCSB-LSTOR-PT storage expander in the Cisco UCS B420 M4 diagnostic tool.	This issue has no known workaround.	1.0(1c)
CSCuu40612	The Universally Unique Identifier (UUID) in the Cisco UCS B420 M4 diagnostics tool is displayed incorrectly.	Use the UUID displayed in Cisco UCS Manager.	1.0(1c)
CSCuu40627	PCI inventory shows the "?" character instead of the "&" character for Cisco UCS B420 M4.	This issue has no known workaround.	1.0(1c)

The following caveats were open in Release 1.0(1b):

Table 8   Open Caveats in Release 1.0(1b)

Defect ID	Symptom	Workaround	First Release Affected
CSCuo39634	SEL logs from the slave blade are not accessible from the Cisco UCS B460 M4 diagnostics tool. SEL logs from the master blade are accessible and exposed.	Clear SEL logs in Cisco UCS Manager and run diagnostics normally. Then, using Cisco UCS Manager, check the blade SEL logs for any memory errors.	1.0(1b)
CSCuo46470	Sensor data from the slave blade is not accessible from the Cisco UCS B460 M4 diagnostics tool. Sensor data from the master blade is accessible and exposed.	Use Cisco UCS Manager to access the sensor data.	1.0(1b)
CSCuo52795	In some cases, the GUI Overview ("splash") page does not load properly.	Navigate to another section of the GUI and then return to the Overview page.	1.0(1b)
CSCup16610	Running the SaveUSB command without having a USB memory device mounted appears to be successful but logs are saved to a /tmp directory instead of being saved to the user host.	This issue has no known workaround. User must mount USB flash drive before log can be saved to user host.	1.0(1b)
CSCuq18740	Blade server diagnostics GUI shows incorrect CPU thread count for B200 M4.	This issue has no known workaround. use the diagnostics CLI to get the CPU thread count.	1.0(1b)
CSCuq27645	PCI inventory shows the "?" character instead of the "&" character; other output is correct.	This issue has no known workaround.	1.0(1b)
CSCur01405	Unable to clear all SEL entries on Š B420M3, B260M4, and B460M4 servers.	Use Cisco UCS Manager to clear the SEL logs on these blade servers.	1.0(1b)

The following caveats were open in Release 1.0(1a):

Table 9   Open Caveats in Release 1.0(1a)

Defect ID	Symptom	Workaround	First Release Affected
CSCui00152	When displaying the CPU cache information (SMBIOS --> cache) for the B200-M2 UCS Blade Server, the diagnostics tool incorrectly calculates the L1 and L2 level cache size.	The B200-M2 UCS Blade Server running an older BIOS displays the L1 and L2 caches per core and therefore, the diagnostics tool incorrectly calculates the L1 and L2 level cache size.This is a known issue and it has no known workaround.	1.0(1a)
CSCui28615	If five or more loops are run for the Memory Random test on B200-M2 server, it can cause the Memory Random test to fail due to the high CPU temperature.	If the Memory Random test fails, check if the failure is due to the high CPU temperature. This is an expected behavior and it does not mean that the memory is bad.	1.0(1a)

Table 9   Open Caveats in Release 1.0(1a) (continued)

Defect ID	Symptom	Workaround	First Release Affected

CSCui77931	The CPU Register test fails on the B230-M2 and B440-M2 servers with the following errors:
	
	`Error opening PCI config file /sys/bus/pci/devices/0000:80:14.2/config`
	`[NON-FATAL ERROR][Node 0 QPI 1] QPI is not running full width`
	`[NON-FATAL ERROR][Node 0 QPI 2] QPI is not running full width`
	`[FATAL error][IOH 0] PCIe port 1 has detected an error`
		This issue has no known workaround.	1.0(1a)

CSCui83062	When running the **show spd** command in the CLI, the diagnostic tool does not correctly display the Serial Presence Detect (SPD) errors with the memory DIMM even though the DIMM has errors.	The UCS blade diagnostics have a SEL event titled as the *System Firmware Error #0x06* without a decode to the DIMM. The UCSM can decode the blade SEL to the DIMM.	1.0(1a) Resolved in 1.0(1b).
CSCuj98184	The **show status** output in the CLI does not match the number of loops if the test is started in the GUI.	This issue has no known workaround.	1.0(1a)
CSCuj45779	When viewing the logs in the Logs tab, the diagnostics tool generates a "*This value is out of range*" error when you try to manually select a page number, for example, "2 of [22]". The page navigation also stops responding when you reach the last page in the logs.	Refresh the GUI by navigating away from the logs or use the Refresh button on the screen.	1.0(1a)
CSCul00980	Some DIMMS display *No Module Installed* in the CLI output of the **server memory** command. The SMBIOS table is not populated with the correct size for each DIMM.	This issue happens with the 32GB DIMMs using BIOS 1.4 and it has no known workaround.	1.0(1a)

Related Documentation

For more information, you can access the following guides:

- Cisco UCS Diagnostics User Guide for B-Series Servers, Release 1.0

Obtain Documentation and Submit 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.

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