Release Notes for Cisco UCS Server Diagnostic Utilities

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Cisco UCS Server Diagnostics Utilities

Cisco provides the following diagnostics utilities for Cisco UCS C-Series Servers:

1. **Cisco UCS Server Diagnostics Utility** —The Cisco UCS Server Diagnostics Utility is an application that helps you to:

   • View server inventory.

   • Perform interactive offline diagnostics.

   • View server health and logs.

   For more information on performing these tasks, see the latest version of the Cisco UCS Server Diagnostics Utility User Guide.

   Beginning with release 6.1(3a), NI-IOD is supported by Python release 3.0.

2. **Cisco UCS UEFI Diagnostics Utility** —Cisco UCS UEFI Diagnostics Utility application helps you perform various CPU, Memory, HDD, OS, Video, and Drivers test in UEFI shell. Test logs can be transferred to a USB drive.

   Note Cisco UCS UEFI Diagnostics Utility can run only on BIOS UEFI mode. BIOS legacy mode is not supported.

You can download the ISO images for Cisco UCS Server Diagnostics Utility and Cisco UCS UEFI Diagnostics Utility from Software Download.

This release notes provides information about both the utilities. Both these utilities follow different release schedules. The information provided in this release notes applies to both the utilities unless specified otherwise.

Revision History

Cisco UCS UEFI Diagnostics Utility

Revision	Date	Description
A1	January 16, 2023	Updated the section • Supported Platforms
A0	December 06, 2022	Created release notes for Release 6.2(3b).

Cisco UCS Server Diagnostics Utility

Revision	Date	Description
P0	December 06, 2022	Added New Features and System Requirements for Release 6.2(3d).
O0	September 22, 2022	Added New Features and System Requirements for Release 6.2(3b).
N2	August 24, 2022	Updated the following topics for Release 6.2(3a): • Hardware Requirements for Cisco UCS Server Diagnostics Utility • Known Behaviors and Limitations
N1	July 28, 2022	Added New Features for Release 6.2(3a) and updated Known Behavior for release 6.2(3a).
N0	July 22, 2022	Created release notes for Release 6.2(3a).
M0	July 13, 2022	Created release notes for Release 6.2(2a).
L0	July 19, 2021	Created release notes for Release 6.2(1c).
K1	May 24, 2021	Added New Features for Release 6.1(3a).
K0	March 10, 2021	Created release notes for Release 6.1(3a).

Revision	Date	Description
J0	September 04, 2020	Created release notes for Release 6.1(2a).
I0	April 07, 2020	Created release notes for Release 6.1(1c).
H0	May 03, 2019	Created release notes for Release 6.0(4).
G0	January 07, 2019	Created release notes for Release 6.0(2)
F0	August 14, 2018	Created release notes for Release 6.0(1).
E0	April 16, 2018	Created release notes for Release 5.1(3).
D0	November 13, 2017	Created release notes for Release 5.1(2).
C0	November 02, 2017	Created release notes for Release 5.1(1).
B0	May 03, 2017	CCreated release notes for Release 5.0(3).
A0	January 23, 2017	Created release notes for Release 5.0(1).

System Requirements

Supported Platforms - Cisco UCS UEFI Diagnostics Utility

Release 6.2(3b)

Cisco UCS UEFI Diagnostics Utility 6.2(3b) is supported on all Cisco UCS C-series M4, M5, M6 servers, Cisco UCS S-series M4, M5 servers, Cisco UCS B-series M5, M6 servers, and Cisco UCS X-series M6 servers.

Supported Platforms - Cisco UCS Server Diagnostics Utility

Release 6.2(3d)

Cisco UCS Server Diagnostics Utility 6.2(3d) is supported on all Cisco UCS C-series M4, M5, M6 servers, Cisco UCS S-series M4, M5 servers, Cisco UCS B-series M5, M6 servers, and Cisco UCS X-series M6 servers.

Release 6.2(3b)

Cisco UCS Server Diagnostics Utility 6.2(3b) is supported on all Cisco UCS C-series M4, M5, M6 servers, Cisco UCS S-series M4, M5 servers.

Release 6.2(3a)

Cisco UCS Server Diagnostics Utility 6.2(3a) is supported on all Cisco UCS C-series M4, M5, M6 servers, and S-series M4, M5 servers.

Release 6.2(2a)

Cisco UCS Server Diagnostics Utility 6.2(2a) is supported on all Cisco UCS C-series M4, M5, M6 servers, and S-series M4, M5 servers.

Release 6.2(1c)

Cisco UCS Server Diagnostics Utility 6.2(1c) is supported only on the following servers:

- UCS-C220 M6
- UCS-C240 M6
- UCS-C245 M6

Release 6.1(3a)

Cisco UCS Server Diagnostics Utility 6.1(3a) is supported on all Cisco UCS C-series M5 servers, and S-series M4, M5 servers.

Release 6.1(2a)

Cisco UCS Server Diagnostics Utility 6.1(2a) is supported on all Cisco UCS C-series M4, M5 servers, S-series M4, M5 servers, and HX servers.

Release 6.1(1c)

Cisco UCS Server Diagnostics Utility 6.1(1c) is supported on all Cisco UCS C-series M4, M5 servers, S-series M4, M5 servers, and HX servers.

Release 6.0(4)

Cisco UCS Server Diagnostics Utility 6.0(4) is supported only on the following servers:

- UCS-S3260 M5
- UCS-C220 M5
- UCS-C240 M5
- UCS-C480 M5
- UCS-C480 M5 ML

Release 6.0(2)

Cisco UCS Server Diagnostics Utility 6.0(2) is supported on all Cisco UCS C-series M4, M5 servers, and S-series M4, M5 servers.

Release 6.0(1)

Cisco UCS Server Diagnostics Utility 6.0(1) is supported on all Cisco UCS C-series M4, M5 servers, and S-series M4, M5 servers.

Release 5.1(3)

Cisco UCS Server Diagnostics Utility 5.1(3) is supported only on the following servers:

- UCS-C220 M5
- UCS-C240 M5
- UCS-C480 M5
- UCS-S3260 M5

Release 5.1(2)

Cisco UCS Server Diagnostics Utility 5.1(2) is supported only on the following servers:

- UCS-C220 M5
- UCS-C240 M5
- UCS-C480 M5

Release 5.1(1)

Cisco UCS Server Diagnostics Utility 5.1(1) is supported only on the following servers:

- UCS-C220 M5
- UCS-C240 M5

Release 5.0(3)

Cisco UCS Server Diagnostics Utility 5.0(3) is supported on all Cisco UCS C-series M3, M4 servers, and S-series M4 servers.

Release 5.0(1)

Cisco UCS Server Diagnostics Utility 5.0(1) is supported on all Cisco UCS C-series M3, M4 servers, and S-series M3, M4 servers.

Hardware Requirements for Cisco UCS Server Diagnostics Utilities

The following are the minimum hardware requirements for UCS Server Diagnostics Utility:

- CD-ROM Drive—A USB CD/DVD-ROM drive is required to be able to boot and run the UCS Server Diagnostics Utility. You can also use the virtual media option in the Cisco IMC KVM to boot UCS Server Diagnostics Utility.

- Mouse—Some functions require a standard mouse (USB) for navigation.

- RAM—A minimum of 4 GB RAM. If the available RAM is less than the minimum recommended value, UCS Server Diagnostics Utility will not function properly.

New Features in Cisco UCS UEFI Diagnostics Utility

New Features in Release 6.2(3b)

UEFI diagnostics supports the following features:

- CPU tests

- Memory tests

- Video controller/GPU tests

- HDD tests

New Features In Cisco UCS Server Diagnostics Utility

New Features in Release 6.2(3d)

Beginning with release 6.2(3d), SDU supports the following features:

- Non-Volatile DIMM Quick test (NVDIMM)

New Features in Release 6.2(3b)

Beginning with release 6.2(3b), SDU supports the following features:

- Enhanced disk tests

- Added new tests - NVMe drive test and GPU tests

New Features in Release 6.2(3a)

Beginning with release 6.2(3a), SDU supports the following features:

- Enhanced CPU and memory tests:

  - SEL parser framework, used by the CPU and memory tests to find any correctable or configuration errors.

  - Enhanced memory Stress Test - Consists of "24 different tests" with customizable memory limit settings and time-out settings.

  - Updated test log summary with "User Recommendations" for various CPU and DIMM errors.

New Features in Release 6.1(3a)

Beginning with release 6.1(3a), SDU supports secure boot.

> **Note** BMC should be running release 4.1(3b) or later for SDU to support secure boot.

Resolved Caveats for Cisco UCS Server Diagnostics Utility

Release 6.0(4)

• CSCvp73840

Symptom: CSP-5228 hangs when trying to boot the Diagnostic image.

Workaround: None

Release 6.0(1)

• CSCve50599

Symptom: CPU stream test fails on the UCS C460 M4 server with the V4 CPU.

Workaround: None

Open Caveats for Cisco UCS Server Diagnostics Utility

Release 5.0(1)

• CSCvc73352

Symptom: The Server Diagnostic Utility does not discover the RAID adapter on the C3260 M4 server.

Workaround: None.

Known Behaviors and Limitations for Cisco UCS Server Diagnostics Utility

Release 6.2(3a)

• CSCwc47058

Symptom: SDU boots to EULA screen on triggering F7 Diagnostics. Tests are not started automatically and snapshot file is not pushed to BMC.

Workaround:

Perform the following steps:

1. Manually boot the SDU ISO.

2. Start the quick test from the **Quick Tasks** tab.

   You can view the results on the SDU GUI and download the results as a snapshot file.

To know more on how to download a snapshot file, see the **Generating and Downloading Snapshot File** section in Cisco UCS Server Diagnostics Utility User Guide.

- CSCwc49231

Symptom: SDU 2.0 : SDU ISO size is more than 256 MB, does not fit on SDU partition in flexUtil.

Workaround:

1. Rename the ISO from `ucs-cxxx-diag-<version>.iso` to `ucs-cxxx-scu-<version>.iso`.

2. Upload on the SCU partition and use the updated ISO.

Release 6.0(4)

- CSCvo90058

Symptom: Number of DIMMs displayed in Server Diagnostics Utility (SDU) GUI is lesser than the actual populated numbers.This issue is observed on S3260 M5 platforms with 4.0(4b) Cisco IMC and BIOS firmware.

SDU CLI (server memory) is displaying the correct list of populated DIMMs.

Release 5.0(1)

- CSCvc19881

Symptom: A traceback exception error is seen on the Non Interactive Server Diagnostic Utility. This happens when you use Python version 2.6.

Workaround: Use Python version 2.7 on the utility.

Related Documentation

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

- Cisco UCS Server Configuration Utility User Guide
- Cisco Driver Update Utility User Guide

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

- Regulatory Compliance and Safety Information for Cisco UCS

Obtaining Documentation and Submitting a Service Request

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

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