



# Cisco C880 M5 with Xeon Platinum 8100 CPU Release Notes (1.0.3)

Firmware Revision: 1.0.3

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## Introduction

Cisco C880 M5 with Xeon Platinum 8100 CPU is an 8-Socket x86 Rack servers. It will be based on eight Intel® Xeon® Platinum 8100 series processors with max memory of 3TB or 6TB or 9TB or 12TB. SAP HANA Certifications will be done by Cisco on this product and this will be managed by UCS Director.

## System Requirements

There are no specific system requirements for this release of firmware.

## New and Changed Features

There is no specific change in any of the software features.

## Changes in Behavior

There are no specific change in any of the software feature and their behavior.

## Scalability Improvements

There is no specific improvement in any of scalability requirements.

## Related Documentation

The documents specifically for Cisco C880 M5 server with Xeon Platinum 8100 CPU are located at specified link:

<http://www.cisco.com/c/en/us/products/servers-unified-computing/c880-m5-server/index.html>

## Installation and Upgrade Notes

The installation module and upgrade notes are located in the released firmware bundle. The following table maps firmware release versions with individual components.

Release Version	BIOS Version	iRMC Version	note
1.0.1	1.27.0	01.21C	Initial release
1.0.2	1.27.0	01.29C	
1.0.3	1.57.0	01.42C	Address CVE-2017-5715 (Spectre/Variant 2)

## Upgrade Paths

The firmware release package can be downloaded from specified link:

<http://www.cisco.com/cisco/web/support/index.html>

## Open and Resolved Bugs

The open and resolved bugs for this release are accessible through the Cisco Bug Search Tool. This web-based tool provides you with access to the Cisco bug tracking system, which maintains information about bugs and vulnerabilities in this product and other Cisco hardware and software products.

**Note:** You must have a Cisco.com account to log in and access the Cisco Bug Search Tool. If you do not have one, you can [register for an account](#). For more information about the Cisco Bug Search Tool, see the [Bug Search Tool Help & FAQ](#).

## Open Bugs for This Release

All open bugs for this release are available in the Cisco Bug Search Tool. This includes workarounds for the following open bugs.

Bug ID	Headline
-----	<b>[Description]</b> [BIOS Online Update]  The online update of BIOS firmware fails on the iRMC WebUI. Restriction: The online update of BIOS firmware is not available. To be resolved in future iRMC firmware.  <b>[Workaround]</b> Please use BIOS Offline Update.

[Internal ID: i1]

Bug ID	Headline
-----	<p><b>[Description]</b></p> <p>[kernel panic]</p> <p>Kernel Panic may occur by using the programs which issue many AVX512 instructions, when the Turbo mode is enabled. This is an open defect and is still under investigation.</p> <p><b>[Workaround]</b> Please disable Turbo mode in the system by BIOS menu.</p> <p style="text-align: right;">[Internal ID: S3, R3]</p>
-----	<p><b>[Description]</b></p> <p>[Messages at booting] The following message may be output to OS console and "/var/log/messages" during booting SLES12SP2.</p> <p>----- systemd-udevd[xxxx]: Assertion '!d-&gt;current' failed at src/libsystemd/sd-event/sd-event.c:702, function event_unmask_signal_data(). Aborting. kernel: Core dump to /usr/lib/systemd/systemd-coredump xxx...xxx systemd-udevd pipe failed</p> <p>No plan to solve.</p> <p><b>[Workaround]</b> No functional issue. Ignore the message.</p> <p>The update for kernel has been provided to suppress the error message. Recommended update for systemd : SUSE-RU-2017:0709-1 <a href="https://www.suse.com/support/update/announcement/2017/suse-ru-20170709-1/">https://www.suse.com/support/update/announcement/2017/suse-ru-20170709-1/</a></p> <p style="text-align: right;">[Internal ID: S5]</p>
-----	<p><b>[Description]</b></p> <p>RHEL7.3 with 4TB or more memory</p> <p>Unable to boot RHEL7.3 on the system with 4TB or more memory.</p> <p>Solved with errata (RHSA-2017-0386). The errata has been provided. <a href="https://access.redhat.com/solutions/2858351">https://access.redhat.com/solutions/2858351</a></p> <p><b>[Workaround]</b> Add "dhash_entries=0x20000000 ihash_entries=0x10000000" in kernel option.</p> <p style="text-align: right;">[Internal ID: R6]</p>
-----	<p><b>[Description]</b></p> <p>[Install] To install RHEL7.3 may fail due to NMI watchdog at 1st reboot.</p> <p>No plan to solve.</p> <p><b>[Workaround]</b> Set "pmtmr=0" in grub.conf. 1. Push "e" key to edit grub.conf in Grub monitor. 2. Add kernel parameter "pmtmr=0" to grub.conf. 3. Boot the system.</p> <p style="text-align: right;">[Internal ID: R7]</p>

Bug ID	Headline
-----	<p data-bbox="418 268 570 296"><b><u>Description</u></b></p> <p data-bbox="418 323 667 350">[Sub NUMA Clustering]</p> <p data-bbox="418 352 1511 432">The following message may be output to OS console and "/var/log/messages" during booting RHEL7.3, when the SNC (Sub NUMA Clustering) function is enabled. This is an open defect and is still under investigation.</p> <p data-bbox="418 470 500 485">-----</p> <p data-bbox="418 487 1295 514">"WARNING: CPU: x PID: x at ../arch/x86/kernel/smpboot.c:xxx topology_sane.isra"</p> <p data-bbox="418 541 578 569"><b><u>Workaround</u></b></p> <p data-bbox="418 571 943 598">No functional issue. Please ignore the message.</p> <p data-bbox="1390 625 1523 653" style="text-align: right;">[Internal ID: R8]</p>

## Resolved Bugs for This Release

Bug ID	Headline
CSCvh66783	<p>A security issue related to CVE listed below is mitigated at this Release 1.0.3.</p> <p>Cisco C880 M5 servers are based on Intel® Xeon® Scalable Processors (Skylake) that are vulnerable to exploits that use CPU speculative processing and data cache timing to potentially identify privileged information. These exploits are collectively known as Spectre and Meltdown.</p> <ul style="list-style-type: none"><li>• CVE-2017-5753 (Spectre/Variant 1) is addressed by applying relevant Operating System and Hypervisor patches from the appropriate vendors.</li><li>• CVE-2017-5715 (Spectre/Variant 2) is addressed by applying the updated microcode included in the C880 M4 servers as well as the relevant Operating System and Hypervisor patches from the appropriate vendors.</li><li>• CVE-2017-5754 (Meltdown) is addressed by applying the relevant Operating System patches from the appropriate vendors.</li></ul> <p>This release includes BIOS revisions for Cisco C880 M4 generation server. These BIOS revisions include the updated microcode that is a required part of the mitigation for CVE-2017-5715 (Spectre/Variant 2).</p>

## 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*, at: <http://www.cisco.com/c/en/us/td/docs/general/whatsnew/whatsnew.html>.

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