



# **Compute Firmware Bundle 2.27 Release Notes**

HCI

Michael Wallis  
October 29, 2020

This PDF was generated from [https://docs.netapp.com/us-en/hci/docs/rn\\_compute\\_firmware\\_2.27.html](https://docs.netapp.com/us-en/hci/docs/rn_compute_firmware_2.27.html) on December 17, 2020. Always check docs.netapp.com for the latest.

# Table of Contents

- Compute Firmware Bundle 2.27 Release Notes ..... 1
  - What's New ..... 1
  - Download Compute Firmware Bundle 2.27 ..... 2
  - Resolved issues ..... 3
  - Known issues ..... 3

# Compute Firmware Bundle 2.27 Release Notes

The downloadable compute node firmware package contains the latest BIOS and BMC feature enhancements, bugfixes, and hardware support for all supported NetApp HCI compute nodes.

## What's New

Version 2.27 contains general bugfixes.

### Updated firmware components

This firmware package contains the following firmware versions for hardware components, with updated versions in bold:

Component	H300E, H500E, H700E	H410C	H610C	H615C
BIOS	NA2.1	NA3.7	<b>3B03</b>	<b>3B08.CO</b>
BMC	6.84.00	<b>6.71.18</b>	<b>4.00.07</b>	<b>4.68.07</b>
NIC / Mellanox	<b>14.25.1020</b>	<b>14.25.1020</b>	<b>14.25.1020</b>	<b>14.24.1000</b>

### Changes in firmware components

Here are the details of the improvements and changes included in each new firmware component:

Node and firmware component	Improvements and changes
H300E, H500E, H700E BMC 6.84.00	Disabled TLS 1.0 and 1.1 support (this BMC version was delivered in Compute Firmware Bundle 12.2.109 as well.)
H610C BIOS 3B03	<ul style="list-style-type: none"><li>Improved handling of memory failures</li><li>Added the latest Intel NVM firmware updates</li><li>Updated the RC version to 602.D02 (IPU 2020.1)</li><li>Updated the microcode version to MCU x6906</li><li>Updated the SPS ME version to 04.01.04.381.0</li><li>Removed the <b>Restore on AC Power Loss</b> and <b>Current Restore on AC Power Loss</b> BIOS setup options</li></ul>

Node and firmware component	Improvements and changes
H615C BIOS 3B08.CO	<ul style="list-style-type: none"> <li>• Improved handling of memory failures</li> <li>• Added the latest Intel NVM firmware updates</li> <li>• Updated the microcode version to MCU x2F01</li> <li>• Updated the RC version to 602.D02 (IPU 2020.1)</li> <li>• Updated the SPS ME version to 04.01.04.381.0</li> <li>• Removed the <b>Restore on AC Power Loss</b> and <b>Current Restore on AC Power Loss</b> BIOS setup options</li> <li>• Changed the option <b>Attempt Fast Cold Boot</b> default value to <b>disable</b></li> <li>• Changed the option <b>Allow Correctables</b> default value to <b>enable</b></li> </ul>
H410C BMC 6.71.18	Add BMC reporting for ePPR memory SEL events
H610C BMC 4.00.07	Add remote syslog support
H615C BMC 4.68.07	Add remote syslog support

## Mellanox NIC firmware driver compatibility

The updated Mellanox firmware versions 14.25.1020 and 14.24.1000 are compatible only with the following versions of the VMware ESXi driver:

- **ESXi 7.0:** H300E/H500E/H700E/H410C: Version 4.19.16.1
- **ESXi 7.0:** H610C/H615C: Version 4.17.15.16
- **ESXi 6.7:** Version 4.17.15.16
- **ESXi 6.5:** Version 4.16.13.5



Before upgrading to version 2.27, make sure you check the current ESXi driver version. If the driver is out of date, upgrade the driver first. Then upgrade the compute firmware to version 2.27 for your compute nodes. Visit [Update compute node drivers](#) for instructions on updating your compute node drivers, which include the ESXi driver.

While NetApp Deployment Engine 1.8P1 does not deploy ESXi version 7.0, ESXi 7.0 is supported as a self-install or manual upgrade option. When you manually install or upgrade host OSes, NetApp cannot control the drivers and firmware for these OSes.

## Download Compute Firmware Bundle 2.27

To download the Compute Firmware Bundle:

1. Go to [the NetApp HCI downloads page](#).
2. Choose **Compute\_Firmware\_Bundle** from the drop down list.
3. Click **Go**.

Visit [Update compute node firmware](#) for instructions on updating your compute node firmware.

## Resolved issues

The following are issues that have been resolved in this release.

Issue	Description
CSD-3321 / CSESF-129	The BMC can hang and become inaccessible with the error <b>BMC Self Test Failed</b> . This is resolved in H610C BMC 4.00.07 and H615C BMC 4.68.07.
CSESF-234	The H610C BMC web UI inventory API returns the wrong memory serial number format. This is resolved in H610C BMC 4.00.07.
PE-6708	The Bonded NIC pair does not fail over to secondary when the NIC goes down or the port is disabled. This is resolved in Mellanox firmware 14.24.1000.

## Known issues

The following are known issues in this release that might affect daily operation in some environments.

Issue	Description	Workaround
CSESF-295	The compute node firmware update process fails with a BIOS update error when you update the firmware on a H410C node using the downloadable firmware package.	<p>Manually update the BIOS to version NA3.7 on the H410C node:</p> <ol style="list-style-type: none"><li>1. Browse to the <a href="#">NetApp HCI Downloads page</a>.</li><li>2. Enter <b>H410C_BIOS_3.7</b> in the drop down list text field.</li><li>3. Click <b>Go</b>.</li></ol> <p>Instructions for updating are available in PDF format on the download page.</p> <p>After you update the BIOS and BMC, update the H410C node firmware using the compute firmware bundle 2.27 package.</p>
CSESF-328	On H410C and H300E/H500E/H700E nodes, one NIC sensor for the Mellanox NIC in the BMC reports status as "NA" and reads "not present".	None

Issue	Description	Workaround
CSESF-309	H410C and H300E/H500E/H700E nodes are unable to bring the Mellanox NIC port up after manually bringing the port down when running VMware EXSi 6.7u1.	Run the following command to recover the ports: <code>esxcli network nic set -n vmnic2 -a</code>
CSESF-303	Network statistics errors are seen for the Mellanox NIC on H410C nodes.	None
CSESF-293 / PE-10130	Mellanox NIC firmware can be downgraded by Bootstrap OS after you upgrade to the Compute Firmware Bundle version 2.27.	Reinstall Compute Firmware Bundle version 2.27.
PE-11033	Under heavy loads, the expected vmnic0 link message is sometimes missing from H615C node log files.	None
PE-11032	Under heavy loads, transmit errors sometimes occur for the Mellanox NIC on H610C nodes.	None
PE-10954	H610C nodes sometimes reflect the incorrect MTU setting after you set the MTU using the Element software Terminal User Interface (TUI).	None

## Find more information

- [Firmware and driver versions in NetApp HCI and NetApp Element software](#)

## Copyright Information

Copyright © 2020 NetApp, Inc. All rights reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means-graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system-without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

RESTRICTED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.277-7103 (October 1988) and FAR 52-227-19 (June 1987).

## Trademark Information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.