



# Compute Firmware Bundle 2.27 Release Notes

## HCI

Michael Wallis  
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# 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   |
| 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 ESXi 6.7u1.          | Run the following command to recover the ports: <b>esxcli network nic set -n vmnic2 -a</b>   |
| 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   |

| Issue    | Description   | Workaround |
|----------|---|------------|
| 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](#)

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