## VMware Deliverable Release Notes

This document does not apply to HPE Superdome servers.  For information on HPE Superdome, see the following links:

[HPE Integrity Superdome X](#)
[HPE Superdome Flex](#)

Information on HPE Synergy supported VMware ESXi OS releases, HPE ESXi Custom Images and HPE Synergy Custom SPPs is available at:

[OS Support Tool for HPE Synergy](#)

Information on HPE Synergy Software Releases is available at:

[HPE Synergy Software Releases - Overview](#)

## Gen10 SPP 2024.11.00.00 Release Notes for VMware ESXi 8.0

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ROM Flash Firmware Package - HPE Apollo 4200 Gen10/HPE ProLiant XL420 Gen10 (U39) Servers
Version: 3.34_09-30-2024 **(Optional)**
Filename: U39_3.34_09_30_2024.fwpkg

### Important Note!

**Important Notes:**

None

**Deliverable Name:**

HPE Apollo 4200 Gen10/ProLiant XL420 Gen10 System ROM - U39

**Release Version:**

3.34_09-30-2024

**Last Recommended or Critical Revision:**

3.32_08-29-2024

**Previous Revision:**

3.32_08-29-2024

**Firmware Dependencies:**

None

**Enhancements/New Features:**

None

**Problems Fixed:**

Fixed an issue where system may reboot infinitely when a faulty PCIE card was installed.

Fixed an issue where the firmware versions of iLO and Backplane showed incorrectly.

**Known Issues:**

None

### Fixes

**Important Notes:**

None

**Firmware Dependencies:**

None

**Problems Fixed:**

Fixed an issue where system may reboot infinitely when a faulty PCIE card was installed.

Fixed an issue where the firmware versions of iLO and Backplane showed incorrectly.

**Known Issues:**

None

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ROM Flash Firmware Package - HPE Apollo 4510 Gen10/HPE ProLiant XL450 Gen10 (U40) Servers
Version: 3.34_09-30-2024 **(Optional)**
Filename: U40_3.34_09_30_2024.fwpkg

<u>**Important Note!**</u>

**Important Notes:**

None

**Deliverable Name:**

HPE Apollo 4510 Gen10/HPE ProLiant XL450 Gen10 System ROM - U40

**Release Version:**

3.34_09-30-2024

**Last Recommended or Critical Revision:**

3.32_08-29-2024

**Previous Revision:**

3.32_08-29-2024

**Firmware Dependencies:**

None

**Enhancements/New Features:**

None

**Problems Fixed:**

Fixed an issue where system may reboot infinitely when a faulty PCIE card was installed.

Fixed an issue where the firmware versions of iLO and Backplane showed incorrectly.

**Known Issues:**

None

<u>**Fixes**</u>

**Important Notes:**

None

**Firmware Dependencies:**

None

**Problems Fixed:**

Fixed an issue where system may reboot infinitely when a faulty PCIE card was installed.

Fixed an issue where the firmware versions of iLO and Backplane showed incorrectly.

**Known Issues:**

None

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ROM Flash Firmware Package - HPE ProLiant DL160 Gen10/DL180 Gen10 (U31) Servers
Version: 3.34_09-30-2024 **(Optional)**
Filename: U31_3.34_09_30_2024.fwpkg

**Important Notes:**

None

**Deliverable Name:**

HPE ProLiant DL160 Gen10/DL180 Gen10 System ROM - U31

**Release Version:**

3.34_09-30-2024

**Last Recommended or Critical Revision:**

3.32_08-29-2024

**Previous Revision:**

3.32_08-29-2024

**Firmware Dependencies:**

None

**Enhancements/New Features:**

None

**Problems Fixed:**

Fixed an issue where system may reboot infinitely when a faulty PCIE card was installed.

Fixed an issue where the firmware versions of iLO and Backplane showed incorrectly.

**Known Issues:**

None

## Fixes

**Important Notes:**

None

**Firmware Dependencies:**

None

**Problems Fixed:**

Fixed an issue where system may reboot infinitely when a faulty PCIE card was installed.

Fixed an issue where the firmware versions of iLO and Backplane showed incorrectly.

**Known Issues:**

None

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ROM Flash Firmware Package - HPE ProLiant DL20 Gen10 (U43) Servers
Version: 3.40_08-01-2024 **(Recommended)**
Filename: U43_3.40_08_01_2024.fwpkg

## Important Note!

**Important Notes:**

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2024.3 guidance. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 05.01.04.913.

**Deliverable Name:**

HPE DL20 Gen10 System ROM - U43

**Release Version:**

3.40_08-01-2024

**Last Recommended or Critical Revision:**

3.40_08-01-2024

**Previous Revision:**

3.10_05-16-2024

**Firmware Dependencies:**

None

**Enhancements/New Features:**

None

**Problems Fixed:**

Addressed an issue where NS204i may not be identified as an NVMe device.

Addressed an issue where the Logical Drive name was cleared in RBSU after leaving the configuration page of an MR controller.

Addressed an issue where WHLK HSTI test failed.

Addressed an issue where the "Physical Drive missing" message appears twice in POST when a drive was removed and rebooted with incorrect severity in IML.

Addressed an issue where the boot order was cleared unexpectedly after configuring System Configuration (RBSU) options and navigating to Boot Options > UEFI Boot Settings > UEFI Boot Order, and then pressing F12 to Save and Exit.

Addressed an issue where system may encounter an RSOD while updating the SAS drive FW via HPE Service Packs, including, but not limited to, VMware ESXi Online HDD FW Component Bundle 16.00, HPE Synergy Service Pack (SSP) 2024.01.02 (January 2024) and the future HPE Synergy Service Pack (SSP) 2024.07.01 (July 2024).

**Known Issues:**

None

## Fixes

**Important Notes:**

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2024.3 guidance. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 05.01.04.913.

**Firmware Dependencies:**

None

**Problems Fixed:**

Addressed an issue where NS204i may not be identified as an NVMe device.

Addressed an issue where the Logical Drive name was cleared in RBSU after leaving the configuration page of an MR controller.

Addressed an issue where WHLK HSTI test failed.

Addressed an issue where the "Physical Drive missing" message appears twice in POST when a drive was removed and rebooted with incorrect severity in IML.

Addressed an issue where the boot order was cleared unexpectedly after configuring System Configuration (RBSU) options and navigating to Boot Options > UEFI Boot Settings > UEFI Boot Order, and then pressing F12 to Save and Exit.

Addressed an issue where system may encounter an RSOD while updating the SAS drive FW via HPE Service Packs, including, but not limited to, VMware ESXi Online HDD FW Component Bundle 16.00, HPE Synergy Service Pack (SSP) 2024.01.02 (January 2024) and the future HPE Synergy Service Pack (SSP) 2024.07.01 (July 2024).

**Known Issues:**

None

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ROM Flash Firmware Package - HPE Proliant DL20 Gen10 Plus Servers
Version: 2.20_08-07-2024 **(Recommended)**
Filename: U60_2.20_08_07_2024.fwpkg

## Important Note!

**Important Notes:**

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2024.3 guidance.

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.00.03.604 (2.00_12_20_2023).

**Deliverable Name:**

HPE DL20 Gen10 Plus System ROM - U60

**Release Version:**

2.20_08-07-2024

**Last Recommended or Critical Revision:**

2.20_08-07-2024

**Previous Revision:**

2.10_05-16-2024

**Firmware Dependencies:**

None

**Enhancements/New Features:**

None

**Problems Fixed:**

Addressed an issue where NS204i may not be identified as an NVMe device.

Addressed an issue where the Logical Drive name was cleared in RBSU after leaving configuration page of an MR controller.

Addressed an issue that Battery Failure IML message log may be incorrectly logged for MR Controller with Smart Storage Battery.

Addressed an issue where system failed to boot with selected NVMe HDD by setting One-Time Boot Option in ILO Web.

Addressed an issue where system may encounter a RSOD while updating SAS drive FW via HPE Service Packs, including, but not limited to, VMware ESXi Online HDD FW Component Bundle 16.00, HPE Synergy Service Pack (SSP) 2024.01.02 (January 2024) and the future HPE Synergy Service Pack (SSP) 2024.07.01 (July 2024).

**Known Issues:**

None

## Fixes

**Important Notes:**

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2024.3 guidance.

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.00.03.604 (2.00_12_20_2023).

**Firmware Dependencies:**

None

**Problems Fixed:**

Addressed an issue where NS204i may not be identified as an NVMe device.

Addressed an issue where the Logical Drive name was cleared in RBSU after leaving configuration page of an MR controller.

Addressed an issue that Battery Failure IML message log may be incorrectly logged for MR Controller with Smart Storage Battery.

Addressed an issue where system failed to boot with selected NVMe HDD by setting One-Time Boot Option in ILO Web.

Addressed an issue where system may encounter a RSOD while updating SAS drive FW via HPE Service Packs, including, but not limited to, VMware ESXi Online HDD FW Component Bundle 16.00, HPE Synergy Service Pack (SSP) 2024.01.02 (January 2024) and the future HPE Synergy Service Pack (SSP) 2024.07.01 (July 2024).

**Known Issues:**

None

## Enhancements

Updated some Japanese translation.

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ROM Flash Firmware Package - HPE ProLiant DL325 Gen10 (A41) Servers

Version: 3.30_10-04-2024 **(Recommended)**
Filename: A41_3.30_10_04_2024.fwpkg

**<u>Important Note!</u>**

### Important Notes:

This revision of the System ROM includes AMD reference code RomePI 1.0.0.K for AMD 2nd Generation EPYC processors. This revision of the System ROM includes AMD reference code NaplesPI 1.0.0.N for AMD 1st Generation EPYC processors.

### Deliverable Name:

HPE ProLiant DL325 Gen10 System ROM - A41

### Release Version:

3.30_10-04-2024

### Last Recommended or Critical Revision:

3.30_10-04-2024

### Previous Revision:

3.20_07-04-2024

### Firmware Dependencies:

None

### Enhancements/New Features:

None

### Problems Fixed:

Fixed an issue where the system may reboot infinitely when a faulty PCIE card was installed.

Fixed an issue where the firmware versions of iLO and Backplane showed incorrectly.

Addressed an issue where NS204i may not be identified as an NVMe device.

### Known Issues:

None

**<u>Fixes</u>**

### Important Notes:

This revision of the System ROM includes AMD reference code RomePI 1.0.0.K for AMD 2nd Generation EPYC processors. This revision of the System ROM includes AMD reference code NaplesPI 1.0.0.N for AMD 1st Generation EPYC processors.

### Firmware Dependencies:

None

### Problems Fixed:

Fixed an issue where the system may reboot infinitely when a faulty PCIE card was installed.

Fixed an issue where the firmware versions of iLO and Backplane showed incorrectly.

Addressed an issue where NS204i may not be identified as an NVMe device.

### Known Issues:

None

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ROM Flash Firmware Package - HPE ProLiant DL360 Gen10 (U32) Servers
Version: 3.34_09-30-2024 **(Optional)**
Filename: U32_3.34_09_30_2024.fwpkg

**<u>Important Note!</u>**

### Important Notes:

None

### Deliverable Name:

HPE ProLiant DL360 Gen10 System ROM - U32

**Release Version:**

3.34_09-30-2024

**Last Recommended or Critical Revision:**

3.32_08-29-2024

**Previous Revision:**

3.32_08-29-2024

**Firmware Dependencies:**

None

**Enhancements/New Features:**

None

**Problems Fixed:**

Fixed an issue where system may reboot infinitely when a faulty PCIE card was installed.

Fixed an issue where the firmware versions of iLO and Backplane showed incorrectly.

**Known Issues:**

None

## Fixes

**Important Notes:**

None

**Firmware Dependencies:**

None

**Problems Fixed:**

Fixed an issue where system may reboot infinitely when a faulty PCIE card was installed.

Fixed an issue where the firmware versions of iLO and Backplane showed incorrectly.

**Known Issues:**

None

---

ROM Flash Firmware Package - HPE ProLiant DL380 Gen10 (U30) Servers
Version: 3.34_09-30-2024 **(Optional)**
Filename: U30_3.34_09_30_2024.fwpkg

## Important Note!

**Important Notes:**

None

**Deliverable Name:**

HPE DL380 Gen10 System ROM - U30

**Release Version:**

3.34_09-30-2024

**Last Recommended or Critical Revision:**

3.32_08-29-2024

**Previous Revision:**

3.32_08-29-2024

**Firmware Dependencies:**

None

**Enhancements/New Features:**

None

**Problems Fixed:**

Fixed an issue where system may reboot infinitely when a faulty PCIE card was installed.

Fixed an issue where the firmware versions of iLO and Backplane showed incorrectly.

**Known Issues:**

None

## Fixes

**Important Notes:**

None

**Firmware Dependencies:**

None

**Problems Fixed:**

Fixed an issue where system may reboot infinitely when a faulty PCIE card was installed.

Fixed an issue where the firmware versions of iLO and Backplane showed incorrectly.

**Known Issues:**

None

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ROM Flash Firmware Package - HPE ProLiant DL385 Gen10 (A40) Servers
Version: 3.30_10-04-2024 **(Recommended)**
Filename: A40_3.30_10_04_2024.fwpkg

## Important Note!

**Important Notes:**

This revision of the System ROM includes AMD reference code RomePI 1.0.0.K for AMD 2nd Generation EPYC processors. This revision of the System ROM includes AMD reference code NaplesPI 1.0.0.N for AMD 1st Generation EPYC processors.

**Deliverable Name:**

HPE DL385Gen10 System ROM - A40

**Release Version:**

3.30_10-04-2024

**Last Recommended or Critical Revision:**

3.30_10-04-2024

**Previous Revision:**

3.20_07-04-2024

**Firmware Dependencies:**

None

**Enhancements/New Features:**

None

**Problems Fixed:**

Fixed an issue where the system may reboot infinitely when a faulty PCIE card was installed.

Fixed an issue where the firmware versions of iLO and Backplane showed incorrectly.

Addressed an issue where NS204i may not be identified as an NVMe device.

**Known Issues:**

None

**Important Notes:**

This revision of the System ROM includes AMD reference code RomePI 1.0.0.K for AMD 2nd Generation EPYC processors. This revision of the System ROM includes AMD reference code NaplesPI 1.0.0.N for AMD 1st Generation EPYC processors.

**Firmware Dependencies:**

None

**Problems Fixed:**

Fixed an issue where the system may reboot infinitely when a faulty PCIE card was installed.

Fixed an issue where the firmware versions of iLO and Backplane showed incorrectly.

Addressed an issue where NS204i may not be identified as an NVMe device.

**Known Issues:**

None

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ROM Flash Firmware Package - HPE ProLiant DL560 Gen10/DL580 Gen10 (U34) Servers
Version: 3.34_09-30-2024 **(Optional)**
Filename: U34_3.34_09_30_2024.fwpkg

## Important Note!

**Important Notes:**

None

**Deliverable Name:**

HPE ProLiant DL560 Gen10/DL580 Gen10 System ROM - U34

**Release Version:**

3.34_09-30-2024

**Last Recommended or Critical Revision:**

3.32_08-29-2024

**Previous Revision:**

3.32_08-29-2024

**Firmware Dependencies:**

None

**Enhancements/New Features:**

None

**Problems Fixed:**

Fixed an issue where system may reboot infinitely when a faulty PCIE card was installed.

Fixed an issue where the firmware versions of iLO and Backplane showed incorrectly.

**Known Issues:**

None

## Fixes

**Important Notes:**

None

**Firmware Dependencies:**

None

**Problems Fixed:**

Fixed an issue where system may reboot infinitely when a faulty PCIE card was installed.

Fixed an issue where the firmware versions of iLO and Backplane showed incorrectly.

**Known Issues:**

None

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ROM Flash Firmware Package - HPE ProLiant MicroServer Gen10 Plus v2 (U64) Servers
Version: 2.20_08-07-2024 **(Recommended)**
Filename: U64_2.20_08_07_2024.fwpkg

## Important Note!

**Important Notes:**

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2024.3 guidance.

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.00.03.604 (2.00_12_20_2023).

**Deliverable Name:**

HPE ProLiant MicroServer Gen10 Plus v2 System ROM - U64

**Release Version:**

2.20_08-07-2024

**Last Recommended or Critical Revision:**

2.20_08-07-2024

**Previous Revision:**

2.10_05-16-2024

**Firmware Dependencies:**

None

**Enhancements/New Features:**

None

**Problems Fixed:**

Addressed an issue where NS204i may not be identified as an NVMe device.

Addressed an issue where the Logical Drive name was cleared in RBSU after leaving configuration page of an MR controller.

Addressed an issue that Battery Failure IML message log may be incorrectly logged for MR Controller with Smart Storage Battery.

Addressed an issue where system failed to boot with selected NVMe HDD by setting One-Time Boot Option in ILO Web.

Addressed an issue where system may encounter a RSOD while updating SAS drive FW via HPE Service Packs, including, but not limited to, VMware ESXi Online HDD FW Component Bundle 16.00, HPE Synergy Service Pack (SSP) 2024.01.02 (January 2024) and the future HPE Synergy Service Pack (SSP) 2024.07.01 (July 2024).

**Known Issues:**

None

## Fixes

**Important Notes:**

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2024.3 guidance.

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.00.03.604 (2.00_12_20_2023).

**Firmware Dependencies:**

None

**Problems Fixed:**

Addressed an issue where NS204i may not be identified as an NVMe device.

Addressed an issue where the Logical Drive name was cleared in RBSU after leaving configuration page of an MR controller.

Addressed an issue that Battery Failure IML message log may be incorrectly logged for MR Controller with Smart Storage Battery.

Addressed an issue where system failed to boot with selected NVMe HDD by setting One-Time Boot Option in ILO Web.

Addressed an issue where system may encounter a RSOD while updating SAS drive FW via HPE Service Packs, including, but not limited to, VMware ESXi Online HDD FW Component Bundle 16.00, HPE Synergy Service Pack (SSP) 2024.01.02 (January 2024) and the future HPE Synergy Service Pack (SSP) 2024.07.01 (July 2024).

**Known Issues:**

None

## Enhancements

Updated some Japanese translation.

---

ROM Flash Firmware Package - HPE ProLiant ML110 Gen10 (U33) Servers
Version: 3.34_09-30-2024 **(Optional)**
Filename: U33_3.34_09_30_2024.fwpkg

## Important Note!

**Important Notes:**

None

**Deliverable Name:**

HPE ProLiant ML110 Gen10 System ROM - U33

**Release Version:**

3.34_09-30-2024

**Last Recommended or Critical Revision:**

3.32_08-29-2024

**Previous Revision:**

3.32_08-29-2024

**Firmware Dependencies:**

None

**Enhancements/New Features:**

None

**Problems Fixed:**

Fixed an issue where system may reboot infinitely when a faulty PCIE card was installed.

Fixed an issue where the firmware versions of iLO and Backplane showed incorrectly.

**Known Issues:**

None

## Fixes

**Important Notes:**

None

**Firmware Dependencies:**

None

**Problems Fixed:**

Fixed an issue where system may reboot infinitely when a faulty PCIE card was installed.

Fixed an issue where the firmware versions of iLO and Backplane showed incorrectly.

**Known Issues:**

None

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ROM Flash Firmware Package - HPE ProLiant ML30 Gen10 (U44) Servers
Version: 3.40_08-01-2024 **(Recommended)**
Filename: U44_3.40_08_01_2024.fwpkg

## Important Note!

**Important Notes:**

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2024.3 guidance. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 05.01.04.913.

**Deliverable Name:**

HPE ProLiant ML30 Gen10 System ROM - U44

**Release Version:**

3.40_08-01-2024

**Last Recommended or Critical Revision:**

3.40_08-01-2024

**Previous Revision:**

3.10_05-16-2024

**Firmware Dependencies:**

None

**Enhancements/New Features:**

None

**Problems Fixed:**

Addressed an issue where NS204i may not be identified as an NVMe device.

Addressed an issue where the Logical Drive name was cleared in RBSU after leaving the configuration page of an MR controller.

Addressed an issue where WHLK HSTI test failed.

Addressed an issue where the "Physical Drive missing" message appears twice in POST when a drive was removed and rebooted with incorrect severity in IML.

Addressed an issue where the boot order was cleared unexpectedly after configuring System Configuration (RBSU) options and navigating to Boot Options > UEFI Boot Settings > UEFI Boot Order, and then pressing F12 to Save and Exit.

Addressed an issue where system may encounter an RSOD while updating the SAS drive FW via HPE Service Packs, including, but not limited to, VMware ESXi Online HDD FW Component Bundle 16.00, HPE Synergy Service Pack (SSP) 2024.01.02 (January 2024) and the future HPE Synergy Service Pack (SSP) 2024.07.01 (July 2024).

**Known Issues:**

None

## Fixes

**Important Notes:**

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2024.3 guidance. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 05.01.04.913.

**Firmware Dependencies:**

None

**Problems Fixed:**

Addressed an issue where NS204i may not be identified as an NVMe device.

Addressed an issue where the Logical Drive name was cleared in RBSU after leaving the configuration page of an MR controller.

Addressed an issue where WHLK HSTI test failed.

Addressed an issue where the "Physical Drive missing" message appears twice in POST when a drive was removed and rebooted

with incorrect severity in IML.

Addressed an issue where the boot order was cleared unexpectedly after configuring System Configuration (RBSU) options and navigating to Boot Options > UEFI Boot Settings > UEFI Boot Order, and then pressing F12 to Save and Exit.

Addressed an issue where system may encounter an RSOD while updating the SAS drive FW via HPE Service Packs, including, but not limited to, VMware ESXi Online HDD FW Component Bundle 16.00, HPE Synergy Service Pack (SSP) 2024.01.02 (January 2024) and the future HPE Synergy Service Pack (SSP) 2024.07.01 (July 2024).

**Known Issues:**

None

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ROM Flash Firmware Package - HPE ProLiant ML30 Gen10 Plus Servers
Version: 2.20_08-07-2024 **(Recommended)**
Filename: U61_2.20_08_07_2024.fwpkg

## Important Note!

### Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2024.3 guidance.

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.00.03.604 (2.00_12_20_2023).

### Deliverable Name:

HPE ProLiant ML30 Gen10 Plus System ROM - U61

### Release Version:

2.20_08-07-2024

### Last Recommended or Critical Revision:

2.20_08-07-2024

### Previous Revision:

2.10_05-16-2024

### Firmware Dependencies:

None

### Enhancements/New Features:

None

### Problems Fixed:

Addressed an issue where NS204i may not be identified as an NVMe device.

Addressed an issue where the Logical Drive name was cleared in RBSU after leaving configuration page of an MR controller.

Addressed an issue that Battery Failure IML message log may be incorrectly logged for MR Controller with Smart Storage Battery.

Addressed an issue where system failed to boot with selected NVMe HDD by setting One-Time Boot Option in ILO Web.

Addressed an issue where system may encounter a RSOD while updating SAS drive FW via HPE Service Packs, including, but not limited to, VMware ESXi Online HDD FW Component Bundle 16.00, HPE Synergy Service Pack (SSP) 2024.01.02 (January 2024) and the future HPE Synergy Service Pack (SSP) 2024.07.01 (July 2024).

### Known Issues:

None

## Fixes

### Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2024.3 guidance.

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.00.03.604 (2.00_12_20_2023).

### Firmware Dependencies:

None

### Problems Fixed:

Addressed an issue where NS204i may not be identified as an NVMe device.

Addressed an issue where the Logical Drive name was cleared in RBSU after leaving configuration page of an MR controller.

Addressed an issue that Battery Failure IML message log may be incorrectly logged for MR Controller with Smart Storage Battery.

Addressed an issue where system failed to boot with selected NVMe HDD by setting One-Time Boot Option in ILO Web.

Addressed an issue where system may encounter a RSOD while updating SAS drive FW via HPE Service Packs, including, but not limited to, VMware ESXi Online HDD FW Component Bundle 16.00, HPE Synergy Service Pack (SSP) 2024.01.02 (January 2024) and the future HPE Synergy Service Pack (SSP) 2024.07.01 (July 2024).

**Known Issues:**

None

## Enhancements

Updated some Japanese translation.

---

ROM Flash Firmware Package - HPE ProLiant ML350 Gen10 (U41) Servers
Version: 3.34_09-30-2024 **(Optional)**
Filename: U41_3.34_09_30_2024.fwpkg

## Important Note!

**Important Notes:**

None

**Deliverable Name:**

HPE ProLiant ML350 Gen10 System ROM - U41

**Release Version:**

3.34_09-30-2024

**Last Recommended or Critical Revision:**

3.32_08-29-2024

**Previous Revision:**

3.32_08-29-2024

**Firmware Dependencies:**

None

**Enhancements/New Features:**

None

**Problems Fixed:**

Fixed an issue where system may reboot infinitely when a faulty PCIE card was installed.

Fixed an issue where the firmware versions of iLO and Backplane showed incorrectly.

**Known Issues:**

None

## Fixes

**Important Notes:**

None

**Firmware Dependencies:**

None

**Problems Fixed:**

Fixed an issue where system may reboot infinitely when a faulty PCIE card was installed.

Fixed an issue where the firmware versions of iLO and Backplane showed incorrectly.

**Known Issues:**

None

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ROM Flash Universal Firmware Package - HPE ProLiant DL325/DL325 v2/DL345 Gen10 Plus (A43) Servers
Version: 3.40_10-04-2024 **(Recommended)**
Filename: A43_3.40_10_04_2024.fwpkg

## Important Note!

### Important Notes:

This revision of the System ROM includes AMD reference code MilanPI 1.0.0.E for AMD 3rd Generation EPYC processors. This revision of the System ROM includes AMD reference code RomePI 1.0.0.K for AMD 2nd Generation EPYC processors.

### Deliverable Name:

HPE ProLiant DL325/DL325 v2/DL345 Gen10 Plus System ROM - A43

### Release Version:

3.40_10-04-2024

### Last Recommended or Critical Revision:

3.40_10-04-2024

### Previous Revision:

3.30_09-05-2024

### Firmware Dependencies:

None

### Enhancements/New Features:

Added Zilia DIMM manufacturer ID for SMBIOS information.

### Problems Fixed:

Fixed an issue where the iLO firmware version may show incorrectly.

### Known Issues:

None

## Fixes

### Important Notes:

This revision of the System ROM includes AMD reference code MilanPI 1.0.0.E for AMD 3rd Generation EPYC processors. This revision of the System ROM includes AMD reference code RomePI 1.0.0.K for AMD 2nd Generation EPYC processors.

### Firmware Dependencies:

None

### Problems Fixed:

Fixed an issue where the iLO firmware version may show incorrectly.

### Known Issues:

None

## Enhancements

Added Zilia DIMM manufacturer ID for SMBIOS information.

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ROM Flash Universal Firmware Package - HPE ProLiant DL360/DL380 Gen10 Plus (U46) Servers
Version: 2.24_10-04-2024 **(Optional)**
Filename: U46_2.24_10_04_2024.fwpkg

**Important Notes:**

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.04.04.603 (2.00_12_18_2023).

**Deliverable Name:**

HPE System ROM - U46

**Release Version:**

2.24_10-04-2024

**Last Recommended or Critical Revision:**

2.22_09-05-2024

**Previous Revision:**

2.22_09-05-2024

**Firmware Dependencies:**

None

**Enhancements/New Features:**

Added Zilia DIMM manufacturer ID for SMBIOS information.

**Problems Fixed:**

Fixed an issue where the iLO firmware version may show incorrectly.

**Known Issues:**

None

## Fixes

**Important Notes:**

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.04.04.603 (2.00_12_18_2023).

**Firmware Dependencies:**

None

**Problems Fixed:**

Fixed an issue where the iLO firmware version may show incorrectly.

**Known Issues:**

None

## Enhancements

Added Zilia DIMM manufacturer ID for SMBIOS information.

---

ROM Flash Universal Firmware Package - HPE ProLiant DL365/DL385/DL385 v2 Gen10 Plus (A42) Servers
Version: 3.40_10-04-2024 **(Recommended)**
Filename: A42_3.40_10_04_2024.fwpkg

## Important Note!

**Important Notes:**

This revision of the System ROM includes AMD reference code MilanPI 1.0.0.E for AMD 3rd Generation EPYC processors. This revision of the System ROM includes AMD reference code RomePI 1.0.0.K for AMD 2nd Generation EPYC processors.

**Deliverable Name:**

HPE DL365 Gen10 Plus/DL385 Gen10 Plus/DL385 v2 Gen10 Plus System ROM - A42

**Release Version:**

3.40_10-04-2024

**Last Recommended or Critical Revision:**

3.40_10-04-2024

**Previous Revision:**

3.30_09-05-2024

**Firmware Dependencies:**

None

**Enhancements/New Features:**

Added Zilia DIMM manufacturer ID for SMBIOS information.

**Problems Fixed:**

Fixed an issue where the iLO firmware version may show incorrectly.

**Known Issues:**

None

## Fixes

**Important Notes:**

This revision of the System ROM includes AMD reference code MilanPI 1.0.0.E for AMD 3rd Generation EPYC processors. This revision of the System ROM includes AMD reference code RomePI 1.0.0.K for AMD 2nd Generation EPYC processors.

**Firmware Dependencies:**

None

**Problems Fixed:**

Fixed an issue where the iLO firmware version may show incorrectly.

**Known Issues:**

None

## Enhancements

Added Zilia DIMM manufacturer ID for SMBIOS information.

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| **Driver - Lights-Out Management** | **Top** |
|---|---|

HPE iLO Native Driver for ESXi 7.0
Version: 10.8.2 **(Recommended)**
Filename: ilo-driver_700.10.8.2.2-1OEM.700.1.0.15843807_22942561.zip

## Fixes

This product addressed a memory leak in vmkernel.

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| **Driver - Network** | **Top** |
|---|---|

HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0
Version: 2024.09.00 **(Recommended)**
Filename: cp062101.compsig; cp062101.zip

## Important Note!

- This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.
- HPE recommends the *HPE Broadcom NetXtreme-E Firmware Version,* 230.1.123000 or later, for use with this driver.

## Fixes

This product addresses the problem to enabling NPAR+ SRIOV (more than supported VFs through Driver) causes system failure.

## Enhancements

- This product enhances RoCE command size trimming.
- This product enhances driver logging to capture non-supported dual-rate transceiver async errors.

## Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port 535FLR-T Adapter
- HPE Ethernet 10Gb 2-port 535T Adapter
- HPE Ethernet 10Gb 2-port 537SFP+ Adapter
- HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter
- HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter
- HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter
- HPE Ethernet 10Gb 2-port SFP+ BCM57412 OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ BCM57412 Adapter
- HPE Ethernet 10Gb 2-port BaseT BCM57416 OCP3 Adapter
- HPE Ethernet 10Gb 2-port BaseT BCM57416 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 OCP3 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter
- Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

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HPE Intel i40en Driver for VMware vSphere 8.0
Version: 2024.09.00 **(Recommended)**
Filename: cp061664.compsig; cp061664.zip

## Important Note!

This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.

HPE recommends the firmware provided in *HPE Intel Online Firmware Upgrade Utility for VMware*, version 3.24.0 or later, for use with this driver.

## Enhancements

- This product enhanced to support log FW Failure Critical Data in Recovery Mode.
- This product enhanced to support add module parameters pause_rx and pause_tx for Link Flow Control and enable it by default.

## Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 1Gb 2-port 368FLR-MMT Adapter
- HPE Ethernet 1Gb 2-port 368i Adapter
- HPE Ethernet 1Gb 4-port 369i Adapter
- HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter
- HPE Ethernet 10Gb 2-port 562SFP+ Adapter
- HPE Ethernet 10Gb 2-port 563i Adapter
- HPE Ethernet 10Gb 2-port 568FLR-MMSFP+ Adapter
- HPE Ethernet 10Gb 2-port 568FLR-MMT Adapter
- HPE Ethernet 10Gb 2-port 568i Adapter
- HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter
- HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter

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HPE Intel igbn Driver for VMware vSphere 8.0
Version: 2024.09.00 **(Recommended)**
Filename: cp062161.compsig; cp062161.zip

## Important Note!

This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.

HPE recommends the firmware provided in *HPE Intel Online Firmware Upgrade Utility for VMware*, version 3.24.0  or later, for use with this driver.

**Enhancements**

This product added support to new Gen11 servers.

**Supported Devices and Features**

These drivers support the following network adapters:

- HPE Ethernet 1Gb 2-port 361T Adapter
- HPE Ethernet 1Gb 2-port 361i Adapter
- HPE Ethernet 1Gb 2-port 363i Adapter
- HPE Ethernet 1Gb 4-port 366FLR Adapter
- HPE Ethernet 1Gb 4-port 366T Adapter
- HPE Ethernet 1Gb 4-port 366i Adapter
- HPE Ethernet 1Gb 4-port 366i Communication Board
- Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE
- Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE
- Intel(R) I350 Gigabit Network Connection

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HPE Intel ixgben Driver for VMware vSphere 8.0
Version: 2024.03.00 **(Recommended)**
Filename: cp058394.compsig; cp058394.zip

**Important Note!**

This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.

HPE recommends the firmware provided in *HPE Intel Online Firmware Upgrade Utility for VMware*, version 3.23.0 or later, for use with this driver.

**Enhancements**

This product enhanced the compatibility with firmware of Fortville 9.4.

**Supported Devices and Features**

These drivers support the following network adapters:

- HPE Ethernet 10Gb 2-port 560SFP+ Adapter
- HPE Ethernet 10Gb 2-port 560FLR-SFP+ Adapter
- HPE Ethernet 10Gb 2-port 561T Adapter
- HPE Ethernet 10Gb 2-port 561FLR-T Adapter
- HPE Ethernet 10Gb 2-port 562T Adapter
- HPE Ethernet 10Gb 2-port 562FLR-T Adapter

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HPE QLogic FastLinQ 10/25/50 GbE Multifunction Driver for VMware vSphere 8.0
Version: 2024.09.00 **(Recommended)**
Filename: cp061739.compsig; cp061739.zip

**Important Note!**

This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.

HPE recommends the firmware provided as below for use with these drivers,

- HPE QLogic FastLinQ Firmware Package for Arrowhead adapters, version 8.65.14 or later.
- HPE QLogic FastLinQ Online Firmware Upgrade Utility for VMware, version 4.19.0 or later.

**Fixes**

This product corrects an issue which system crashed due to hardware error.

**Supported Devices and Features**

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port 521T Adapter
- HPE Ethernet 10Gb 2-port 524SFP+ Adapter

- HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter
- HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Converged Network Adapter
- HPE StoreFabric CN1200R-T Converged Network Adapter
- HPE StoreFabric CN1300R Converged Network Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 QL41232HQCU OCP3 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 QL41232HLCU Adapter
- HPE Ethernet 10Gb 4-port SFP+ QL41134HLCU Adapter
- HPE Ethernet 10Gb 2-port BaseT QL41132HLRJ Adapter
- HPE Ethernet 10Gb 2-port BaseT QL41132HQRJ OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ QL41132HQCU OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ QL41132HLCU Adapter

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HPE QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 8.0
Version: 2024.09.00 **(Recommended)**
Filename: cp061741.compsig; cp061741.zip

**Important Note!**

This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.

HPE recommends the firmware provided in *HPE QLogic NX2 Online Firmware Upgrade Utility for VMware*, version 1.35.0 or later, for use with this driver.

**Fixes**

- This product corrects an issue which fix TSO (TCP Segmentation Offload) issue when single segment is larger than pkt length.
- This product corrects an issue which PSOD while freeing DMA during 'esxcli qlfastlinq qcc' command execution.

**Supported Devices and Features**

These drivers support the following network adapters:

- HPE Ethernet 10Gb 2-port 530T Adapter
- HPE Ethernet 10Gb 2-port 530SFP+ Adapter
- HPE FlexFabric 10Gb 2-port 533FLR-T Adapter
- HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter
- HPE FlexFabric 10Gb 4-port 536FLR-T Adapter

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Intel icen Driver for VMware vSphere 8.0
Version: 2024.09.00 **(Recommended)**
Filename: cp061668.compsig; cp061668.zip

**Important Note!**

- This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.
- HPE recommends the firmware provided in *Intel Firmware Package For E810 Ethernet Adapter*, version 4.50 or later, for use with these drivers.

**Fixes**

This product fixed an issue which NIC port was in autonegotiation mode, many DOWN/UP sequences was applied by the link partner, and NIC port remained in DOWN state randomly.

**Enhancements**

This product added a warning message when RDMA critical error occurs.

**Supported Devices and Features**

This product supports the following network adapters:

- Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE
- Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE
- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE
- Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE

- Intel E810-2CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE
- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

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**Driver - Storage Controller**
HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller (64-bit) Driver for vSphere 8.0
Version: 2024.10.01 **(Recommended)**
Filename: cp060849.compsig; cp060849.zip

**Important Note!**

- **This new 7.28 release have not completed vSAN certification, please don't update for vSAN environment for now. Target to complete vSAN certification by end of December 2024.**

**Fixes**

- Fix an issue that controller may stuck in boot state and cause unexpected controller reset when there is OCR (online controller reset). OCR can happen when doing online firmware update.

**Enhancements**

- New release for version 7.728.02.00.

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HPE ProLiant Gen10 Smart Array and Gen10 Plus and Gen11 Smart RAID Controller Driver for VMware vSphere 8.0 (Driver Component).
Version: 2024.10.01 **(Recommended)**
Filename: cp059502.compsig; cp059502.zip

**Important Note!**

- This component is intended to be used by HPE applications.  It is a zip that contains the same driver deliverable available from the vmware.com, plus an HPE specific CPXXXX.xml file.
- Actual ESXi Version is 80.4672.0.104

**Fixes**

- Fixed an issue where a PSOD occurred during array delete operations.
- Fixed an issue where failed logical volumes take too long to be removed at the OS level.
- Fixed an issue where NVMe drives were not discovered after hot-plug operation.
- Fixed a potential data loss risk for SmartCache Logical Drives configured in WriteBack mode during shutdown.

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**Firmware - Network**
Broadcom NX1 Online Firmware Upgrade Utility for VMware
Version: 1.39.0 **(Recommended)**
Filename: CP062085.compsig; CP062085.zip

**Important Note!**

This software package contains combo image v20.30.41 with the following firmware versions:

| NIC | Boot Code Version | PXE Version | NCSI Version | UEFI Version |
|---|---|---|---|---|
| BCM 5719 1GbE 4p BASE-T Adptr | 1.55 | 21.6.4 | 1.5.55 | 21.6.74 |
| BCM 5719 1GbE 4p BASE-T OCP3 Adptr | 1.55 | 21.6.4 | 1.5.55 | 21.6.74 |
| BCM 5719 1GbE 4p BASE-T LOM Adptr | 1.55 | 21.6.4 | 1.5.55 | 21.6.74 |
| BCM 5720 1GbE 2p BASE-T LOM Adptr | 1.43 | 21.6.4 | 1.5.55 | 21.6.74 |

**Prerequisites**

This product requires the appropriate driver for your device and operating system to be installed before the firmware is updated.

**Fixes**

This product addresses a problem that might cause a BSOD when trying to reboot the system from operating Windows systems due to NIC internal software mutex problem.
  - This product addresses an issue where a random missing DHCP IP address occurs when the iLO shared NIC port is used, due to NIC internal software mutex problem.
  - This product addresses an issue that might cause the POST to get stuck due to NIC internal software mutex problem.

**Supported Devices and Features**

This product supports the following network adapters:

  - Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE
  - Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE
  - Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE
  - Broadcom BCM5719 Ethernet 1Gb 4-port Base-T LOM Adapter for HPE

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HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for VMware
Version: 5.23.0 **(Recommended)**
Filename: CP062108.compsig; CP062108.zip

**Important Note!**

HPE recommends *HPE Broadcom NetXtreme-E Drivers for VMware*, versions 2024.09.00 or later, for use with this firmware.

This software package contains NVM Image version 230.1.123000 with the following firmware versions:

| NIC | Bootcode Version | NCSI Version | MBA Version | UEFI Version | RoCE Version |
|---|---|---|---|---|---|
| HPE Ethernet 10Gb 2-port 535FLR-T Adapter | 230.0.168.0 | 230.0.168.0 | 230.0.167.0 | 230.0.167.0 | 230.0.168.0 |
| HPE Ethernet 10Gb 2-port 535T Adapter | | | | | |
| HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter | | | | | |
| HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter | | | | | |
| HPE Ethernet 10Gb 2-port 537SFP+ Adapter | | | | | |
| HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter | | | | | |

**Prerequisites**

This product requires the appropriate driver for your device and operating system be installed before firmware is updated.

**Fixes**

  - This product addresses an issue where getting Transceiver Temperature erroneous unit value.
  - This product addresses an issue when NC-SI Query Pending NC PLDM Response is wrong when NIC does not have a pending PLDM request.

**Enhancements**

  - This product enhances the Get Package Status command support.
  - This product enhances to add a warning message when a non-supported dual-rate transceiver is used.
  - This product enhances the Addition of SFF 8472 Transceiver Power Details to RDE Port Metrics.

**Supported Devices and Features**

This product supports the following network adapters:

  - HPE Ethernet 10Gb 2-port 537SFP+ Adapter
  - HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter
  - HPE Ethernet 10Gb 2-port 535T Adapter
  - HPE Ethernet 10Gb 2-port 535FLR-T Adapter
  - HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter
  - HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter

HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for VMware
Version: 226.1.107000 **(Recommended)**
Filename: CP062138.compsig; CP062138.zip

**Important Note!**

HPE recommends *HPE Broadcom NetXtreme-E Drivers for VMware*, versions 2023.09.00 or later, for use with this firmware.

This software package contains NVM Image version 226.1.107000 with the following firmware versions:

| NIC | Bootcode Version | NCSI Version | MBA Version | UEFI Version | RoCE Version |
|---|---|---|---|---|---|
| HPE Ethernet 10Gb 2-port 535FLR-T Adapter | 226.0.145.0 | 226.0.145.0 | 226.0.135.0 | 226.0.135.0 | 226.0.145.0 |
| HPE Ethernet 10Gb 2-port 535T Adapter | | | | | |
| HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter | | | | | |
| HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter | | | | | |
| HPE Ethernet 10Gb 2-port 537SFP+ Adapter | | | | | |
| HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter | | | | | |

**Prerequisites**

This product requires the appropriate driver for your device and operating system be installed before firmware is updated.

**Fixes**

- This product addressed the NC-SI passthrough algorithm for some FRU-reading commands from platform side.
- This product addressed the packet forwarding rule while receiving packet which is bigger than 9600 jumbo size.
- This product addressed the link failure under FreeBSD OS after changing link speed.
- This product addressed the failure of bringing up VFs of SRIOV when doing on and off switch.
- This product addressed adapter not responsive when work under heavy loading with 128 VMs.
- The product addressed status reporting of PLDM sensor monitoring with BMC.
- This product addressed the link-flap after link down or warm boot.

**Supported Devices and Features**

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port 535FLR-T Adapter
- HPE Ethernet 10Gb 2-port 535T Adapter
- HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter
- HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter
- HPE Ethernet 10Gb 2-port 537SFP+ Adapter
- HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter

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HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for VMware
Version: 226.1.107.0 **(Recommended)**
Filename: CP062143.compsig; CP062143.zip

**Important Note!**

HPE recommends *HPE Broadcom NetXtreme-E Drivers for VMware*, versions 2023.09.00 or later, for use with this firmware.

This software package contains NVM Image version 226.1.107000 with the following firmware versions:

| NIC | Bootcode Version | NCSI Version | MBA Version | UEFI Version | RoCE Version |
|---|---|---|---|---|---|
| HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 OCP3 Adapter | | | | | |
| HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter | | | | | |

| HPE Ethernet 10Gb 2-port BaseT BCM57416 OCP3 Adapter | 226.0.145.0 | 226.0.145.0 | 226.0.135.0 | 226.0.135.0 | 226.0.145.0 |
|---|---|---|---|---|---|
| HPE Ethernet 10Gb 2-port BaseT BCM57416 Adapter | | | | | |
| HPE Ethernet 10Gb 2-port SFP+ BCM57412 OCP3 Adapter | | | | | |
| HPE Ethernet 10Gb 2-port SFP+ BCM57412 Adapter | | | | | |
| HPE Ethernet 10/25Gb 4-port SFP28 BCM57504 Adapter | | | | | |
| HPE Ethernet 10/25Gb 4-port SFP28 BCM57504 OCP3 Adapter | | | | | |

## Prerequisites

This product requires the appropriate driver for your device and operating system be installed before firmware is updated.

## Fixes

- This product addressed device lost symptom after continuously ungraceful restart on BCM57414 OCP3 adapter.
- This product addressed some RDE pattern format for some LLDP properties.
- This product addressed the NC-SI passthrough with BMC when device is under idle mode.
- This product addressed new mechanism for loading factory default.

## Enhancements

- This product enhanced the device self-diagnostic matrix and MAC verification.
- This product enhanced the link-speed calculation for internal variable.

## Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 OCP3 Adapter
- HPE Ethernet 10Gb 2-port BaseT BCM57416 Adapter
- HPE Ethernet 10Gb 2-port BaseT BCM57416 OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ BCM57412 Adapter
- HPE Ethernet 10Gb 2-port SFP+ BCM57412 OCP3 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter
- Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

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HPE Broadcom NX1 Online Firmware Upgrade Utility VMware for HPE ProLiant Gen10 server series Only.
Version: 1.39.0 **(Recommended)**
Filename: CP062096.compsig; CP062096.zip

## Important Note!

- **This component ONLY support HPE ProLiant Gen10 server series.**

This software package contains combo image v20.30.41 with the following firmware versions:

| NIC | Boot Code Version | PXE Version | NCSI Version | UEFI Version |
|---|---|---|---|---|
| HPE Ethernet 1Gb 2-port 330i Adapter (22BD) | 2.10 | 21.6.4 | 1.5.55 | 21.6.74 |
| HPE Ethernet 1Gb 4-port 331i Adapter (22BE) HPE Ethernet 1Gb 4-port 331FLR Adapter HPE Ethernet 1Gb 4-port 331T Adapter | 1.55 | 21.6.4 | 1.5.55 | 21.6.74 |
| HPE Ethernet 1Gb 2-port 332i Adapter (22E8) HPE Ethernet 1Gb 2-port 332T Adapter | 1.43 | 21.6.4 | 1.5.55 | 21.6.74 |

For previous firmware versions prior to v20.19.51, please refer to the link : https://www.hpe.com/global/swpublishing/MTX-4f19da2bceff4b73a31531d71e

## Prerequisites

This product requires the appropriate driver for your device and operating system be installed before firmware is updated.

**Enhancements**

This product enhances NVRAM configuration during the firmware upgrade.

**Supported Devices and Features**

This product supports the following network adapters:

- HPE Ethernet 1Gb 2-port 330i Adapter (22BD)
- HPE Ethernet 1Gb 4-port 331i Adapter (22BE)
- HPE Ethernet 1Gb 4-port 331FLR Adapter
- HPE Ethernet 1Gb 4-port 331T Adapter
- HPE Ethernet 1Gb 2-port 332i Adapter (22E8)
- HPE Ethernet 1Gb 2-port 332T Adapter

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HPE Intel Online Firmware Upgrade Utility VMware for HPE ProLiant Gen9 and Gen10 server series Only.
Version: 3.24.0 **(Recommended)**
Filename: CP061687.compsig; CP061687.zip

**Important Note!**

- This software package contains the following firmware versions for the below listed supported network adapters:

| NIC | EEPROM/NVM Version | OROM Version | Single NVM Version |
|---|---|---|---|
| HPE Ethernet 1Gb 2-port 361i Adapter | 8000119A | 1.3612.0 | N/A |
| HPE Ethernet 1Gb 2-port 361T Adapter | 80001147 | 1.3612.0 | N/A |
| HPE Ethernet 1Gb 4-port 366FLR Adapter | 800011A1 | 1.3612.0 | N/A |
| HPE Ethernet 1Gb 4-port 366T Adapter | 800011F1 | 1.3612.0 | N/A |
| HPE Ethernet 1Gb 2-port 368i Adapter | 80003AC5 | 1.3612.0 | N/A |
| HPE Ethernet 1Gb 2-port 368FLR-MMT Adapter | 80003AC2 | 1.3612.0 | N/A |
| HPE Ethernet 1Gb 4-port 369i Adapter | 80003AC3 | 1.3612.0 | N/A |
| HPE Ethernet 10Gb 2-port 568i Adapter | 80003AC4 | 1.3612.0 | N/A |
| HPE Ethernet 10Gb 2-port 568FLR-MMSFP+ Adapter | 80003AC2 | 1.3612.0 | N/A |
| HPE Ethernet 10Gb 2-port 568FLR-MMT Adapter | 80003AC2 | 1.3612.0 | N/A |
| HPE Ethernet 10Gb 2-port 563i Adapter | 800035C0 | 1.1375.0 | N/A |
| HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter | 8000F231 | 1.3612.0 | 11.1.7 |
| HPE Ethernet 10Gb 2-port 562FLR-T Adapter | 800016F1 | 1.3612.0 | 10.55.3 |
| HPE Ethernet 10Gb 2-port 562SFP+ Adapter | 8000F232 | 1.3612.0 | 11.1.7 |
| HPE Ethernet 10Gb 2-port 562T Adapter | 800016EF | 1.3612.0 | 10.55.3 |

The combo image v1.3612.0 includes: Boot Agent: 1GbE - v1.5.90, 10GbE - v2.4.54, 40GbE - v1.1.45 & UEFI Drivers: 1GbE - v9.8.52, 10GbE - v8.2.46, 40GbE - v5.0.04

Single NVM Version is new firmware format which represent an unified version in place of the previously used EEPROM/NVM Version or OROM version.

**This software package no longer contains Firmware for the below listed supported network adapters:**

HPE Ethernet 1Gb 2-port 363i Adapter

HPE Ethernet 1Gb 4-port 366i Adapter

HPE Ethernet 1Gb 4-port 366i Communication Board

HPE Ethernet 10Gb 2-port 560FLR-SFP+ Adapter

HPE Ethernet 10Gb 2-port 560SFP+ Adapter

HPE Ethernet 10Gb 2-port 561FLR-T Adapter

HPE Ethernet 10Gb 2-port 561T Adapter

- The latest firmware version of above adapters, please refer to the link : https://support.hpe.com/connect/s/softwaredetails?language=en_US&softwareId=MTX_d7826493bb5a4aa69b4aa9a1d5&tab=releaseNotes

## Prerequisites

This product requires the appropriate driver for your device and operating system be installed before firmware is updated.

## Enhancements

This product enhanced the compatibility with the latest drivers.

## Supported Devices and Features

This package supports the following network adapters:

- HPE Ethernet 1Gb 2-port 361i Adapter
- HPE Ethernet 1Gb 2-port 361T Adapter
- HPE Ethernet 1Gb 2-port 368FLR-MMT Adapter
- HPE Ethernet 1Gb 2-port 368i Adapter
- HPE Ethernet 1Gb 4-port 366FLR Adapter
- HPE Ethernet 1Gb 4-port 366T Adapter
- HPE Ethernet 1Gb 4-port 369i Adapter
- HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter
- HPE Ethernet 10Gb 2-port 562FLR-T Adapter
- HPE Ethernet 10Gb 2-port 562SFP+ Adapter
- HPE Ethernet 10Gb 2-port 562T Adapter
- HPE Ethernet 10Gb 2-port 568FLR-MMSFP+ Adapter
- HPE Ethernet 10Gb 2-port 568FLR-MMT Adapter
- HPE Ethernet 10Gb 2-port 568i Adapter
- HPE Ethernet 10Gb 2-port 563i Adapter

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HPE QLogic FastLinQ Firmware Package for Arrowhead adapters
Version: 8.65.14 **(Recommended)**
Filename: ql_hp_ah_mbi_8.65.14_pldm.fwpkg

## Important Note!

For Firmware installation, there is no OS and drivers dependency.
For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- HPE QLogic FastLinQ 10/25/50 GbE Drivers for Linux, version 8.74.4.0-8 or later
- HPE QLogic FastLinQ 10/25/50 GbE Drivers for Microsoft Windows Server x64 Editions, version 8.72.15.0 or later
- HPE QLogic FastLinQ 10/25/50 GbE Multifunction Drivers for VMware, version 2024.09.00 or later

This software package contains combo image v8.65.14. This combo image includes: Boot Code (MFW): 8.65.5.0, PXE:2.0.19, and UEFI: 4.1.13.1.

## Enhancements

This product enhanced the compatibility with drivers.

## Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port 521T Adapter
- HPE Ethernet 10Gb 2-port 524SFP+ Adapter
- HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter
- HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Adapter
- HPE StoreFabric CN1200R-T Converged Network Adapter
- HPE StoreFabric CN1300R Converged Network Adapter

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HPE QLogic FastLinQ Online Firmware Upgrade Utility for VMware
Version: 4.19.0 **(Recommended)**
Filename: CP061755.compsig; CP061755.zip

## Important Note!

HPE recommends *HPE QLogic FastLinQ 10/25/50GbE Multifunction Drivers for VMware*, versions 2024.09.00 or later, for use with this firmware.

This software package contains combo image version v8.65.14 includes:

- Boot Code (MFW): 8.65.5.0
- UEFI: 4.1.13.1
- PXE: 2.0.19

The users will only see the combo image versions in the interactive mode firmware update or while using HPSUM/SPP to update the firmware on the supported adapters.

## Prerequisites

This product requires the appropriate driver for your device and operating system be installed before firmware is updated.

## Enhancements

This product enhanced the compatibility with drivers.

## Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port 521T Adapter
- HPE Ethernet 10Gb 2-port 524SFP+ Adapter
- HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter
- HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Converged Network Adapter
- HPE StoreFabric CN1200R-T Converged Network Adapter
- HPE StoreFabric CN1300R Converged Network Adapter

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HPE QLogic NX2 Online Firmware Upgrade Utility for VMware
Version: 1.35.0 **(Recommended)**
Filename: CP061753.compsig; CP061753.zip

## Important Note!

HPE recommends HPE QLogic NX2 10/20GbE Multifunction Drivers for VMware, versions 2024.09.00 or later, for use with this firmware.

This software package contains combo image v7.19.27 with the following firmware versions:

| NIC | Boot Code Version | PXE Version | UEFI Version | iSCSI Version | FCoE Version | CCM Version | L2 Version |
|---|---|---|---|---|---|---|---|
| HPE Ethernet 10Gb 2-port 530SFP+ Adapter<br>HPE Ethernet 10Gb 2-port 530T Adapter | 7.16.15 | 7.14.13 | 8.9.3 | n/a | n/a | 7.14.4 | 7.12.25 |
| HPE Ethernet 10Gb 2-port 533FLR-T Adapter<br>HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter<br>HPE FlexFabric 10Gb 4-port 536FLR-T Adapter | 7.16.15 | 7.14.13 | 8.9.3 | 7.14.0 | 7.14.3 | 7.14.4 | 7.12.25 |

## Prerequisites

This product requires the appropriate driver for your device and operating system be installed before firmware is updated.

## Enhancements

This product enhanced the compatibility with drivers.

## Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port 530SFP+ Adapter
- HPE Ethernet 10Gb 2-port 530T Adapter
- HPE Ethernet 10Gb 2-port 533FLR-T Adapter
- HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter
- HPE FlexFabric 10Gb 4-port 536FLR-T Adapter

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Intel Online Firmware Upgrade Utility for VMware
Version: 3.24.0 **(Recommended)**
Filename: CP061688.compsig; CP061688.zip

## Important Note!

This software package contains the following firmware versions for the below listed supported network adapters:

| NIC | EEPROM/NVM Version | OROM Version | NVM Version |
|---|---|---|---|
| HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2  Adapter | 8000F134 | 1.3602.0 | 9.50 |
| HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter | 8000F13D | 1.3602.0 | 9.50 |
| Intel I350-T4 Ethernet 1Gb 4-port BASE-T  Adapter | 800011F8 | 1.3602.0 | N/A |
| Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter | 80001234 | 1.3602.0 | N/A |
| Intel(R) I350 Gigabit Network Connection (2-port) | 8000119C | 1.3602.0 | N/A |
| Intel(R) I350 Gigabit Network Connection (4-port) | 8000119D | 1.3602.0 | N/A |

The combo image v1.3602.0 includes: Boot Agent: 1GbE - v1.5.90, 10GbE - v2.4.54, 40GbE - v1.1.45 & UEFI Drivers: 1GbE - v9.8.52, 10GbE - v8.2.46, 40GbE - v5.0.04

Single NVM Version is new firmware format which represent an unified version in place of the previously used EEPROM/NVM Version or OROM version.

## Prerequisites

This product requires the appropriate driver for your device and operating system be installed before firmware is updated.

## Enhancements

This product enhanced the compatibility with the latest drivers.

## Supported Devices and Features

This package supports the following network adapters:

- Intel(R) I350 Gigabit Network Connection (2-port)
- Intel(R) I350 Gigabit Network Connection (4-port)
- HPE Ethernet 1Gb 4-port BaseT I350-T4 Adapter
- HPE Ethernet 1Gb 4-port BaseT I350-T4 OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ X710-DA2 OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter

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Marvell FastLinQ Firmware Package for Arrowhead adapters
Version: 8.65.14 **(Recommended)**
Filename: ql_ah_mbi_open_8.65.14_pldm.fwpkg

## Important Note!

For Firmware installation, there is no OS and drivers dependency.
For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- Marvell FastLinQ 10/25/50 GbE Drivers for Microsoft Windows Server x64 Editions, version 8.72.15.0 or later
- HPE QLogic FastLinQ 10/25/50 GbE Drivers for Linux, version 8.74.4.0-8 or later
- HPE QLogic FastLinQ 10/25/50 GbE Multifunction Drivers for VMware, version 2024.09.00 or later

**Enhancements**

This product enhanced the compatibility with drivers.

**Supported Devices and Features**

This product supports the following network adapters:

- HPE Ethernet 10/25Gb 2-port SFP28 QL41232HLCU Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 QL41232HQCU OCP3 Adapter
- HPE Ethernet 10Gb 2-port BaseT QL41132HLRJ Adapter
- HPE Ethernet 10Gb 2-port BaseT QL41132HQRJ OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ QL41132HLCU Adapter
- HPE Ethernet 10Gb 2-port SFP+ QL41132HQCU OCP3 Adapter
- HPE Ethernet 10Gb 4-port SFP+ QL41134HLCU Adapter

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Marvell FastLinQ Online Firmware Upgrade Utility for VMware
Version: 8.55.12 **(Recommended)**
Filename: CP058235.compsig; CP058235.zip

**Important Note!**

This software package contains combo image v8.55.12. This combo image includes:

- PXE: 2.0.19
- Boot Code (MFW): 8.55.22.0
- UEFI: 6.1.8.2

**Prerequisites**

This product requires the appropriate driver for your device and operating system be installed before firmware is updated.

**Fixes**

- This product contains support PLDM firmware upgrade base improvements.
- This product addresses an overheat issue on the network adapters as below,

    HPE Ethernet 10Gb 2-port BaseT QL41132HLRJ Adapter
    HPE Ethernet 10Gb 2-port BaseT QL41132HQRJ OCP3 Adapter

**Enhancements**

This product now supported NPAR enabling option.

**Supported Devices and Features**

This product supports the following network adapters:

- HPE Ethernet 10/25Gb 2-port SFP28 QL41232HQCU OCP3 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 QL41232HLCU Adapter
- HPE Ethernet 10Gb 4-port SFP+ QL41134HLCU Adapter
- HPE Ethernet 10Gb 2-port BaseT QL41132HLRJ Adapter
- HPE Ethernet 10Gb 2-port BaseT QL41132HQRJ OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ QL41132HQCU OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ QL41132HLCU Adapter

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Mellanox Firmware Package (FWPKG) for HPE Ethernet 100Gb 1-port QSFP28 PCIe3 x16 MCX515A-CCAT Adapter : HPE part numbers P31246-B21 and P31246-H21
Version: 16.35.4030 **(Recommended)**
Filename: 16_35_4030-MCX515A-CCA_HPE_Ax.pldm.fwpkg

**Important Note!**

For PLDM enabled VPI (Virtual Protocol Interconnect) adapters supporting both InfiniBand mode and Ethernet modes, every firmware version is made available in two different formats at HPE.com:

1. HPE signed PLDM Firmware Package (.FWPKG filename extension) updatable via iLO.
2. Firmware binary (.bin filename extension) updatable via mstflint utility from the Operating System.

Choose the appropriate firmware file format based on your preference and what suits your environment.

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A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/connectx5firmwarev16354030lts/known+issues

## Prerequisites

FWPKG will work only if the firmware version flashed on the adapter is 16.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

## Fixes

### The following issues have been fixed in version 16.35.4030:

- VF FLR would get stuck when its PF triggered the FLR as well.
- Unexpected source UDP port appeared in RoCE packets when the firmware ignored a non-PF driver configuration for RoCE source UDP port control (as set in SET_HCA_CAP.sw_r_roce_src_udp_port).

## Enhancements

Important : Security Hardening Enhancements - This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your device firmware to this version to improve the firmware security and reliability of your device.

### New features and changes included in version 16.35.4030:

- Added support for postponing QP timeout "retry exceeded" errors for traffic directed at specific destinations. This new capability prevents broken connections for destinations in downtime because of live migration.

## Supported Devices and Features

This software package contains the following firmware versions:

| Mellanox Ethernet Only Adapters | Firmware Version | PSID |
|---|---|---|
| HPE Ethernet 100Gb 1-port QSFP28 PCIe3 x16 MCX515A-CCAT Adapter(P31246-B21 and P31246-H21) | 16.35.4030 | MT_0000000591 |

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Mellanox Firmware Package (FWPKG) for HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 MCX653105A-HDAT Adapter : HPE part numbers P23664-B21 and P23664-H21
Version: 20.42.1000 **(Recommended)**
Filename: 20_42_1000-MCX653105A-HDA_HPE_Ax.pldm.fwpkg

## Important Note!

For PLDM enabled VPI (Virtual Protocol Interconnect) adapters supporting both InfiniBand mode and Ethernet modes, every firmware version is made available in two different formats at HPE.com:

1. HPE signed PLDM Firmware Package (.FWPKG filename extension) updatable via iLO.
2. Firmware binary (.bin filename extension) updatable via mstflint utility from the Operating System.

Choose the appropriate firmware file format based on your preference and what suits your environment.

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A list of known issues with this release is available
at: https://docs.nvidia.com/networking/display/connectx6firmwarev20421000/known+issues

## Prerequisites

FWPKG will work only if the firmware version flashed on the adapter is 20.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

## Fixes

### The following issues have been fixed in version 20.42.1000:

- RDE PortMetrics property Transceivers.SupplyVoltage was reflected in incorrect units of 100uV instead of V.
- HCA_CAP allowed rogue drivers to create more EQs than the number allowed in the HCA_CAP.max_num_eqs.
- Incorrect MPLS packets discards flow when the GLOBAL pause capability was disabled.

## Enhancements

Security Hardening Enhancements: This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your device's firmware to this release to improve the firmware security and reliability of your device.

### New features and changes included in version 20.42.1000:

- Added a new command interface "Memory slow release" to enable/disable holding memory pages for a defined period of time. Once the timer expires, the firmware will return the pages to the driver.
- Added support for MVTS register via a miscellaneous driver using the access_register PRM command.

## Supported Devices and Features

This software package contains the following firmware versions:

| Mellanox InfiniBand Adapter | Firmware Version | PSID |
|---|---|---|
| HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 MCX653105A-HDAT Adapter (P23664-B21 and P23664-H21) | 20.42.1000 | MT_0000000451 |

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Mellanox Firmware Package (FWPKG) for HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 OCP3 MCX653435A-HDAI Adapter : HPE part numbers P31323-B21 and P31323-H21
Version: 20.42.1000 **(Recommended)**
Filename: 20_42_1000-MCX653435A-HDA_HPE_Ax.pldm.fwpkg

## Important Note!

For PLDM enabled VPI (Virtual Protocol Interconnect) adapters supporting both InfiniBand mode and Ethernet modes, every firmware version is made available in two different formats at HPE.com:

1. HPE signed PLDM Firmware Package (.FWPKG filename extension) updatable via iLO.
2. Firmware binary (.bin filename extension) updatable via mstflint utility from the Operating System.

Choose the appropriate firmware file format based on your preference and what suits your environment.

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A list of known issues with this release is available
at: https://docs.nvidia.com/networking/display/connectx6firmwarev20421000/known+issues

## Prerequisites

FWPKG will work only if the firmware version flashed on the adapter is 20.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

## Fixes

### The following issues have been fixed in version 20.42.1000:

- RDE PortMetrics property Transceivers.SupplyVoltage was reflected in incorrect units of 100uV instead of V.
- HCA_CAP allowed rogue drivers to create more EQs than the number allowed in the HCA_CAP.max_num_eqs.
- Incorrect MPLS packets discards flow when the GLOBAL pause capability was disabled.

## Enhancements

Security Hardening Enhancements: This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your device's firmware to this release to improve the firmware security and reliability of your device.

### New features and changes included in version 20.42.1000:

- Added a new command interface "Memory slow release" to enable/disable holding memory pages for a defined period of time. Once the timer expires, the firmware will return the pages to the driver.
- Added support for MVTS register via a miscellaneous driver using the access_register PRM command.

## Supported Devices and Features

This software package contains the following firmware versions:

| Mellanox InfiniBand Adapter | Firmware Version | PSID |
|---|---|---|
| HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 OCP3 MCX653435A-HDAI Adapter  (P31323-B21 and P31323-H21) | 20.42.1000 | MT_0000000592 |

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Mellanox Firmware Package (FWPKG) for HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 MCX653106A-HDAT Adapter : HPE part numbers P31324-B21 and P31324-H21
Version: 20.42.1000 **(Recommended)**
Filename: 20_42_1000-MCX653106A-HDA_HPE_Ax.pldm.fwpkg

## Important Note!

For PLDM enabled VPI (Virtual Protocol Interconnect) adapters supporting both InfiniBand mode and Ethernet modes, every firmware version is made available in two different formats at HPE.com:

1. HPE signed PLDM Firmware Package (.FWPKG filename extension) updatable via iLO.
2. Firmware binary (.bin filename extension) updatable via mstflint utility from the Operating System.

Choose the appropriate firmware file format based on your preference and what suits your environment.

### ConnectX-6 VPI supports having one port as InfiniBand and the other port as Ethernet according to the following matrix of combinations.

| Port #2 - InfiniBand | | | | |
|---|---|---|---|---|
| Port #1 – Ethernet | HDR/HDR100 | EDR | FDR | QDR |
| 200GbE/50GbE | supported | not supported | not supported | supported |
| 100GbE/25GbE | supported | not supported | not supported | supported |
| 40GbE/10GbE | supported | not supported | not supported | supported |
| 1GbE | supported | not supported | not supported | supported |

| Port #2 - Ethernet | | | | |
|---|---|---|---|---|
| Port #1 - InfiniBand | 200GbE/50GbE | 100GbE/25GbE | 40GbE/10GbE | 1GbE |
| HDR / HDR100 | supported | supported | not supported | supported |
| EDR | supported | supported | not supported | supported |
| FDR | not supported | not supported | not supported | not supported |

| QDR/SDR | supported | supported | not supported | supported |
|---------|-----------|-----------|---------------|-----------|

A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/connectx6firmwarev20421000/known+issues

## Prerequisites

FWPKG will work only if the firmware version flashed on the adapter is 20.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

## Fixes

### The following issues have been fixed in version 20.42.1000:

- RDE PortMetrics property Transceivers.SupplyVoltage was reflected in incorrect units of 100uV instead of V.
- HCA_CAP allowed rogue drivers to create more EQs than the number allowed in the HCA_CAP.max_num_eqs.
- Incorrect MPLS packets discards flow when the GLOBAL pause capability was disabled.

## Enhancements

Security Hardening Enhancements: This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your device's firmware to this release to improve the firmware security and reliability of your device.

### New features and changes included in version 20.42.1000:

- Added a new command interface "Memory slow release" to enable/disable holding memory pages for a defined period of time. Once the timer expires, the firmware will return the pages to the driver.
- Added support for MVTS register via a miscellaneous driver using the access_register PRM command.

## Supported Devices and Features

This software package contains the following firmware versions:

| Mellanox InfiniBand Adapter | Firmware Version | PSID |
|---|---|---|
| HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 MCX653106A-HDAT Adapter(P31324-B21 and P31324-H21) | 20.42.1000 | MT_0000000594 |

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Mellanox Firmware Package (FWPKG) for HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 OCP3 MCX653436A-HDAI Adapter : HPE part numbers P31348-B21 and P31348-H21
Version: 20.42.1000 **(Recommended)**
Filename: 20_42_1000-MCX653436A-HDA_HPE_Ax.pldm.fwpkg

## Important Note!

For PLDM enabled VPI (Virtual Protocol Interconnect) adapters supporting both InfiniBand mode and Ethernet modes, every firmware version is made available in two different formats at HPE.com:

1. HPE signed PLDM Firmware Package (.FWPKG filename extension) updatable via iLO.
2. Firmware binary (.bin filename extension) updatable via mstflint utility from the Operating System.

Choose the appropriate firmware file format based on your preference and what suits your environment.

**ConnectX-6 VPI supports having one port as InfiniBand and the other port as Ethernet according to the following matrix of combinations.**

| Port #2 - InfiniBand | | | | |
|---|---|---|---|---|
| Port #1 – Ethernet | HDR/HDR100 | EDR | FDR | QDR |
| 200GbE/50GbE | supported | not supported | not supported | supported |
| 100GbE/25GbE | supported | not supported | not supported | supported |
| 40GbE/10GbE | supported | not supported | not supported | supported |
| 1GbE | supported | not supported | not supported | supported |

| Port #2 - Ethernet | | | | |
|---|---|---|---|---|
| Port #1 - InfiniBand | 200GbE/50GbE | 100GbE/25GbE | 40GbE/10GbE | 1GbE |
| HDR / HDR100 | supported | supported | not supported | supported |
| EDR | supported | supported | not supported | supported |
| FDR | not supported | not supported | not supported | not supported |
| QDR/SDR | supported | supported | not supported | supported |

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A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/connectx6firmwarev20421000/known+issues

## Prerequisites

FWPKG will work only if the firmware version flashed on the adapter is 20.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

## Fixes

**The following issues have been fixed in version 20.42.1000:**

- RDE PortMetrics property Transceivers.SupplyVoltage was reflected in incorrect units of 100uV instead of V.
- HCA_CAP allowed rogue drivers to create more EQs than the number allowed in the HCA_CAP.max_num_eqs.
- Incorrect MPLS packets discards flow when the GLOBAL pause capability was disabled.

## Enhancements

Security Hardening Enhancements: This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your device's firmware to this release to improve the firmware security and reliability of your device.

**New features and changes included in version 20.42.1000:**

- Added a new command interface "Memory slow release" to enable/disable holding memory pages for a defined period of time. Once the timer expires, the firmware will return the pages to the driver.
- Added support for MVTS register via a miscellaneous driver using the access_register PRM command.

## Supported Devices and Features

This software package contains the following firmware versions:

| Mellanox InfiniBand Adapter | Firmware Version | PSID |
|---|---|---|
| HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 OCP3 MCX653436A-HDAI Adapter (P31348-B21 and P31348-H21) | 20.42.1000 | MT_0000000593 |

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Mellanox Firmware Package (FWPKG) for HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe4 x16 MCX653105A-ECAT Adapter : HPE part numbers P23665-B21 and P23665-H21
Version: 20.42.1000 **(Recommended)**
Filename: 20_42_1000-MCX653105A-ECA_HPE_Ax.pldm.fwpkg

## Important Note!

For PLDM enabled VPI (Virtual Protocol Interconnect) adapters supporting both InfiniBand mode and Ethernet modes, every firmware version is made available in two different formats at HPE.com:

1. HPE signed PLDM Firmware Package (.FWPKG filename extension) updatable via iLO.
2. Firmware binary (.bin filename extension) updatable via mstflint utility from the Operating System.

Choose the appropriate firmware file format based on your preference and what suits your environment.

**Disclaimer**: Certain software including drivers and documents may be available from NVIDIA. If you select a URL that directs you to http://www.nvidia.com/, you are then leaving HPE.com. Please follow the instructions on http://www.nvidia.com/ to download NVIDIA software or documentation. When downloading the NVIDIA software or documentation, you may be subject to NVIDIA terms and conditions, including licensing terms, if any, provided on its website or otherwise. HPE is not responsible for your use of any software or documents that you download from http://www.nvidia.com/, except that HPE may provide a limited warranty for NVIDIA software in accordance with the terms and conditions of your purchase of the HPE product or solution.

A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/connectx6firmwarev20421000/known+issues

## Prerequisites

FWPKG will work only if the firmware version flashed on the adapter is 20.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

## Fixes

**The following issues have been fixed in version 20.42.1000:**

- RDE PortMetrics property Transceivers.SupplyVoltage was reflected in incorrect units of 100uV instead of V.
- HCA_CAP allowed rogue drivers to create more EQs than the number allowed in the HCA_CAP.max_num_eqs.
- Incorrect MPLS packets discards flow when the GLOBAL pause capability was disabled.

## Enhancements

Security Hardening Enhancements: This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your device's firmware to this release to improve the firmware security and reliability of your device.

**New features and changes included in version 20.42.1000:**

- Added a new command interface "Memory slow release" to enable/disable holding memory pages for a defined period of time. Once the timer expires, the firmware will return the pages to the driver.
- Added support for MVTS register via a miscellaneous driver using the access_register PRM command.

## Supported Devices and Features

This software package contains the following firmware versions:

| Mellanox InifiniBand Adapter | Firmware Version | PSID |
|---|---|---|
|  |  |  |

| | | |
|---|---|---|
| HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe4 x16 MCX653105A-ECAT Adapter (P23665-B21 and P23665-H21) | 20.42.1000 | MT_0000000452 |

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Mellanox Firmware Package (FWPKG) for HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe4 x16 MCX653106A-ECAT Adapter :
HPE part numbers P23666-B21 and P23666-H21
Version: 20.42.1000 **(Recommended)**
Filename: 20_42_1000-MCX653106A-ECA_HPE_Ax.pldm.fwpkg

## Important Note!

For PLDM enabled VPI (Virtual Protocol Interconnect) adapters supporting both InfiniBand mode and Ethernet modes, every firmware version is made available in two different formats at HPE.com:

1. HPE signed PLDM Firmware Package (.FWPKG filename extension) updatable via iLO.
2. Firmware binary (.bin filename extension) updatable via mstflint utility from the Operating System.

Choose the appropriate firmware file format based on your preference and what suits your environment.

**ConnectX-6 VPI supports having one port as InfiniBand and the other port as Ethernet according to the following matrix of combinations.**

| Port #2 - InfiniBand | | | | |
|---|---|---|---|---|
| **Port #1 – Ethernet** | **HDR/HDR100** | **EDR** | **FDR** | **QDR** |
| **50GbE** | supported | not supported | not supported | supported |
| **100GbE/25GbE** | supported | not supported | not supported | supported |
| **40GbE/10GbE** | supported | not supported | not supported | supported |
| **1GbE** | supported | not supported | not supported | supported |

| Port #2 - Ethernet | | | | |
|---|---|---|---|---|
| **Port #1 - InfiniBand** | **50GbE** | **100GbE/25GbE** | **40GbE/10GbE** | **1GbE** |
| **HDR / HDR100** | supported | supported | not supported | supported |
| **EDR** | supported | supported | not supported | supported |
| **FDR** | not supported | not supported | not supported | not supported |
| **QDR/SDR** | supported | supported | not supported | supported |

**Disclaimer**: Certain software including drivers and documents may be available from NVIDIA. If you select a URL that directs you to http://www.nvidia.com/, you are then leaving HPE.com. Please follow the instructions on http://www.nvidia.com/ to download NVIDIA software or documentation. When downloading the NVIDIA software or documentation, you may be subject to NVIDIA terms and conditions, including licensing terms, if any, provided on its website or otherwise. HPE is not responsible for your use of any software or documents that you download from http://www.nvidia.com/, except that HPE may provide a limited warranty for NVIDIA software in accordance with the terms and conditions of your purchase of the HPE product or solution.

A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/connectx6firmwarev20421000/known+issues

## Prerequisites

FWPKG will work only if the firmware version flashed on the adapter is 20.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

## Fixes

**The following issues have been fixed in version 20.42.1000:**

- RDE PortMetrics property Transceivers.SupplyVoltage was reflected in incorrect units of 100uV instead of V.
- HCA_CAP allowed rogue drivers to create more EQs than the number allowed in the HCA_CAP.max_num_eqs.
- Incorrect MPLS packets discards flow when the GLOBAL pause capability was disabled.

## Enhancements

Security Hardening Enhancements: This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your device's firmware to this release to improve the firmware security and reliability of your device.

**New features and changes included in version 20.42.1000:**

- Added a new command interface "Memory slow release" to enable/disable holding memory pages for a defined period of time. Once the timer expires, the firmware will return the pages to the driver.
- Added support for MVTS register via a miscellaneous driver using the access_register PRM command.

## Supported Devices and Features

This software package contains the following firmware versions:

| Mellanox InfiniBand Adapter | Firmware Version | PSID |
|---|---|---|
| HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe4 x16 MCX653106A-ECAT Adapter (P23666-B21 and P23666-H21) | 20.42.1000 | MT_0000000453 |

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Mellanox Firmware Package(FWPKG) for HPE NV60025M Ethernet 10/25Gb 2-port Secure Network Adapter
Version: 26.41.1000 **(Recommended)**
Filename: 26_41_1000-S2A69-63001_Ax_header.pldm.fwpkg

## Prerequisites

FWPKG will work only if the firmware version flashed on the adapter is 22.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

## Enhancements

Upgraded to version 26.41.1000

## Supported Devices and Features

| HPE Part Number | Mellanox Ethernet Only Adapters | PSID |
|---|---|---|
| P46603-B21 | HPE NV60025M Ethernet 10/25Gb 2-port Secure Network Adapter | HPE0000000062 |

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Mellanox Firmware Package(FWPKG) for HPE NV60100M 100Gb 2-port Storage Offload Adapter
Version: 22.41.1000 **(Recommended)**
Filename: 22_41_1000-R8M41-63001_Ax_header.pldm.fwpkg

## Prerequisites

FWPKG will work only if the firmware version flashed on the adapter is 22.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

## Enhancements

Upgraded to version 22.41.1000

**Supported Devices and Features**

| HPE Part Number | Mellanox Ethernet Only Adapters | PSID |
|---|---|---|
| P46603-B21 | HPE NV60100M 100Gb 2-port Storage Offload Adapter | HPE0000000062 |

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**Firmware - Storage Controller**
Controller Firmware Flash for ESXi7.0 and 8.0 - HPE MR216i-a Gen10 Plus Tri Mode Controller
Version: 52.26.3.5487 **(Recommended)**
Filename: CP060618.compsig; CP060618.zip

**Fixes**

- Fix an issue that PLDM firmware update may fail. The issue may happen on controller, backplane and drive attached to controller.

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Controller Firmware Flash for ESXi7.0 and 8.0 - HPE MR216i-p Gen10 Plus Tri Mode Controller
Version: 52.26.3.5487 **(Recommended)**
Filename: CP060617.compsig; CP060617.zip

**Fixes**

- Fix an issue that PLDM firmware update may fail. The issue may happen on controller, backplane and drive attached to controller.

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Controller Firmware Flash for ESXi7.0 and 8.0 - HPE MR416i-a Gen10 Plus Tri Mode Controller
Version: 52.26.3.5487 **(Recommended)**
Filename: CP060616.compsig; CP060616.zip

**Fixes**

- Fix an issue that PLDM firmware update may fail. The issue may happen on controller, backplane and drive attached to controller.

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Controller Firmware Flash for ESXi7.0 and 8.0 - HPE MR416i-p Gen10 Plus Tri Mode Controller
Version: 52.26.3.5487 **(Recommended)**
Filename: CP060615.compsig; CP060615.zip

**Fixes**

- Fix an issue that PLDM firmware update may fail. The issue may happen on controller, backplane and drive attached to controller.

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Firmware Package - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P204i-c, P416ie-m and P816i-a SR Gen10 and SR308i-o,SR308i-p Gen11 controllers
Version: 7.11 **(Recommended)**
Filename: HPE_SR_Gen10_7.11_A.fwpkg

**Fixes**

- Fixed an issue where the host experienced BSOD while clearing the controller configuration.
- Fixed controller lockups caused by incorrect address reads and partial RAM initialization for PCIe functions, leading to ECC errors.
- Fixed issues with external storage.
- Fixed issues with the SATA drive.
- Fixed issues with the SED drive.
- Fixed issues with the spare drive.
- Corrected MCTP-related issues.
- Fixed surface scan issues on the RAID 50.
- Fixed issues encountered during heavy I/O operations.
- Fixed volume issues on the failed drive.
- Fixed issues for incorrect Severity reported in Redfish events.

- Fixed issues for incorrect Status reported in Redfish resources.
- Fixed an issue with improper capacity information in Redfish drive Name.
- Fixed an issue where Redfish long running task status is not reported.
- Fixed an issue where DurableNameFormat for RAID volumes are reported as UUID in RDE READ operations, but should be NAA.
- Fixed an issue where failed to take ownership of, or to revert, a SED through Redfish.
- Fixed an issue when a drive hosting a RAID 0 Volume is removed and reinserted, a VolumeOK event is not generated.

- Fixed an issue where ILORest return "AccelerationMethod" as "ControllerCache" instead of "none" when controller cache is not enable or preset.

## Enhancements

- Added support for saving Managed SED master key and reset key in cipher text in controller NVRAM instead of clear text.
- Changed temperature polling period from 1 minute to 5 minutes for HBA mode drives that are in low power state.
- Added support for clearing UREs in unmapped LBA range of fault tolerant logical drives.
- Improved random write and mixed read-write performance.
- Added support for SED encryption configuration through Redfish interface.
- Added support of Redfish Chassis implementation for UBM Backplanes.
- Added Redfish ACTION:
  - Storage.SetEncryptionKey
- Added support for Redfish property PATCH:
  - Storage.EncryptionMode
  - Storage.HotspareActivationPolicy
  - Drive.HostspareReplacementMode
  - Drive.HotspareType
  - Volume.Encrypted
- Added support for Redfish Status.Conditions property to resources:
  - Drive
  - Port
  - StorageController
  - StorageController.CacheSummary
  - Volume
- Added support for Redfish properties:
  - Drive.DriveFormFactor
  - Drive.FirmwareVersion
  - Drive.Manufacture (SAS only)
  - Drive.SlotCapableProtocols
  - StorageController.AssetTag
  - StorageController.Links.PCIeFunction
  - Volume.BlockSizeBytes
  - Volume.LogicalUnitNumber
- Added support for PLDM Type5 UBM PIC firmware flashing behind expander.

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Firmware Package - HPE MR216i-a Gen10 Plus Tri Mode Controller
Version: 52.28.3-5681 **(Recommended)**
Filename: HPE_MR216i-a_Gen10P_52.28.3-5681_A.fwpkg

## Important Note!

- **This firmware version to be used on HPE MR216i-a Gen10 Plus Controller.**
- **This new 7.28 release have not completed vSAN certification, please don't update for vSAN environment for now. Target to complete vSAN certification by end of December 2024.**

## Prerequisites

iLO5 version should be at least 2.98 is required for **chassis&Fabric support.**

## Fixes

- Fix a00138425en_us: HPE MR Gen10 Plus/Gen11 Controllers - The Health Status Is Erroneously Displayed As "OK" In The Server Health Tab After a Drive or Storage Volume is in a Failed State.
- Fix an issue that PLDM firmware update for controller and downstream device may failed due to checksum error.
- Fix an issue that ControllerPreviousError (0x7f833119) event may be logged in IML when there is large capacity NVMe drive installed and graceful shutdown.
- Fix an issue that controller may crash during firmware self-activation and cause iLO to show firmware update fail.
- Fix a rare issue that ControllerPreviousError (0x7f833119) event may be logged in IML when server reboot and there is firmware log migration.
- Fix a rare issue that imported secured drives in a span (parity group) became unsecured and data is not recovered. The issue happens only when all drives in a span are removed, re-insert and do import operation.
- Fix an issue that controller reset may occur and not be recovered when adding drives to do transformation and get logical drive information from storcli, MRSA or Redfish client simultaneously.

- Fix a rare issue that data mis compare may happen when simultaneously write and read data for many times before the written data is flushed to physical drive.
- Fix a rare issue that drive might be marked as Unconfigured Bad when hot-insert.
- Fix a rare issue that drive may be marked as Unconfigured Bad if there is link reset happens.
- Fix an issue that Read(32) or Write(32) CDB sent to NVMe drive reported incorrect additional sense code.
- Fix a rare issue that controller may stop responding when there is IO running and plugout drives to make volume offline.
- Fix an issue that drive removal events are delayed when NVMe drive hot-insert and hotremove are performed when mixing SAS/SATA and NVMe drives.
- Fix a rare issue that controller may assert if UBM backplane firmware update failed.
- Fix an assertion failure that may happens when running IO and task management. In this case, IO's marked for abort are getting completed before the firmware really get a chance to abort them.
- Fix an issue that Redfish client is allowed to create different RAID level on the existing span (parity group) configuration which is unsupported.
- Fix an issue that logical drive creation with "0" capacity creating full drive capacity in Redfish client. It is not allowed to use CapacityBytes less than 1GB.

## Enhancements

- Support non-hotplug backplane configuration which is used in HPE ProLiant MicroServer Gen11
    - All the Redfish Drive resources will be listed directly under storage with "%L<StorageId>/Drives/{DriveId}¨
    - Box field will not be displayed anywhere as there is no Box in this case
- LTO support
    - Please check Tape Compatibility matrix on SPoCK (www.hpe.com/storage/TapeCompatibilityMatrix)
    - On Linux, using IO sizes larger than 256KB may result in an error
    - Redfish support is not available for Tape drives
    - The Tape drive appears as a 0KB drive in MRSA and storcli
    - Note: LTO does not support OBSE. OBSE will show fail result on the server with LTO installed.
- Change SBR (secondary bus reset) handle method. With this change, the boot up time is shorten for the vm which has passthrough MR controller configured
- Firmware logging (snapdump) improvement
    - Include protocol layer logs from initial discovery at start of day to address Drive lost across reboots
    - Additional snapdumps are generated if drive failure conditions are detected
    - Use storcli /cx set captureSodPlLogs=<on|off> to enable/disable the function

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Firmware Package - HPE MR216i-p Gen10 Plus Tri Mode Controller
Version: 52.28.3-5681 **(Recommended)**
Filename: HPE_MR216i-p_Gen10P_52.28.3-5681_A.fwpkg

## Important Note!

- **This firmware version to be used on HPE MR216i-p Gen10 Plus Controller.**
- **This new 7.28 release have not completed vSAN certification, please don't update for vSAN environment for now. Target to complete vSAN certification by end of December 2024.**

## Prerequisites

iLO5 version should be at least 2.98 is required for **chassis&Fabric support.**

## Fixes

- Fix a00138425en_us: HPE MR Gen10 Plus/Gen11 Controllers - The Health Status Is Erroneously Displayed As "OK" In The Server Health Tab After a Drive or Storage Volume is in a Failed State.
- Fix an issue that PLDM firmware update for controller and downstream device may failed due to checksum error.
- Fix an issue that ControllerPreviousError (0x7f833119) event may be logged in IML when there is large capacity NVMe drive installed and graceful shutdown.
- Fix an issue that controller may crash during firmware self-activation and cause iLO to show firmware update fail.
- Fix a rare issue that ControllerPreviousError (0x7f833119) event may be logged in IML when server reboot and there is firmware log migration.
- Fix a rare issue that imported secured drives in a span (parity group) became unsecured and data is not recovered. The issue happens only when all drives in a span are removed, re-insert and do import operation.
- Fix an issue that controller reset may occur and not be recovered when adding drives to do transformation and get logical drive information from storcli, MRSA or Redfish client simultaneously.
- Fix a rare issue that data mis compare may happen when simultaneously write and read data for many times before the written data is flushed to physical drive.
- Fix a rare issue that drive might be marked as Unconfigured Bad when hot-insert.
- Fix a rare issue that drive may be marked as Unconfigured Bad if there is link reset happens.
- Fix an issue that Read(32) or Write(32) CDB sent to NVMe drive reported incorrect additional sense code.
- Fix a rare issue that controller may stop responding when there is IO running and plugout drives to make volume offline.
- Fix an issue that drive removal events are delayed when NVMe drive hot-insert and hotremove are performed when mixing SAS/SATA and NVMe drives.
- Fix a rare issue that controller may assert if UBM backplane firmware update failed.

Fix an assertion failure that may happens when running IO and task management. In this case, IO's marked for abort are getting completed before the firmware really get a chance to abort them.
- Fix an issue that Redfish client is allowed to create different RAID level on the existing span (parity group) configuration which is unsupported.
- Fix an issue that logical drive creation with "0" capacity creating full drive capacity in Redfish client. It is not allowed to use CapacityBytes less than 1GB.

## Enhancements

- Support non-hotplug backplane configuration which is used in HPE ProLiant MicroServer Gen11
  - All the Redfish Drive resources will be listed directly under storage with "%L<StorageId>/Drives/{DriveId}¨
  - Box field will not be displayed anywhere as there is no Box in this case
- LTO support
  - Please check Tape Compatibility matrix on SPoCK (www.hpe.com/storage/TapeCompatibilityMatrix)
  - On Linux, using IO sizes larger than 256KB may result in an error
  - Redfish support is not available for Tape drives
  - The Tape drive appears as a 0KB drive in MRSA and storcli
  - Note: LTO does not support OBSE. OBSE will show fail result on the server with LTO installed.
- Change SBR (secondary bus reset) handle method. With this change, the boot up time is shorten for the vm which has passthrough MR controller configured
- Firmware logging (snapdump) improvement
  - Include protocol layer logs from initial discovery at start of day to address Drive lost across reboots
  - Additional snapdumps are generated if drive failure conditions are detected
  - Use storcli /cx set captureSodPlLogs=<on|off> to enable/disable the function

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Firmware Package - HPE MR416i-a Gen10 Plus Tri Mode Controller
Version: 52.28.3-5681 **(Recommended)**
Filename: HPE_MR416i-a_Gen10P_52.28.3-5681_A.fwpkg

## Important Note!

- **This firmware version to be used on HPE MR416i-a Gen10 Plus Controller.**
- **This new 7.28 release have not completed vSAN certification, please don't update for vSAN environment for now. Target to complete vSAN certification by end of December 2024.**

## Prerequisites

iLO5 version should be at least 2.98 is required for **chassis&Fabric support.**

## Fixes

- Fix a00138425en_us: HPE MR Gen10 Plus/Gen11 Controllers - The Health Status Is Erroneously Displayed As "OK" In The Server Health Tab After a Drive or Storage Volume is in a Failed State.
- Fix an issue that PLDM firmware update for controller and downstream device may failed due to checksum error.
- Fix an issue that ControllerPreviousError (0x7f833119) event may be logged in IML when there is large capacity NVMe drive installed and graceful shutdown.
- Fix an issue that controller may crash during firmware self-activation and cause iLO to show firmware update fail.
- Fix a rare issue that ControllerPreviousError (0x7f833119) event may be logged in IML when server reboot and there is firmware log migration.
- Fix a rare issue that imported secured drives in a span (parity group) became unsecured and data is not recovered. The issue happens only when all drives in a span are removed, re-insert and do import operation.
- Fix an issue that controller reset may occur and not be recovered when adding drives to do transformation and get logical drive information from storcli, MRSA or Redfish client simultaneously.
- Fix a rare issue that data mis compare may happen when simultaneously write and read data for many times before the written data is flushed to physical drive.
- Fix a rare issue that drive might be marked as Unconfigured Bad when hot-insert.
- Fix a rare issue that drive may be marked as Unconfigured Bad if there is link reset happens.
- Fix an issue that Read(32) or Write(32) CDB sent to NVMe drive reported incorrect additional sense code.
- Fix a rare issue that controller may stop responding when there is IO running and plugout drives to make volume offline.
- Fix an issue that drive removal events are delayed when NVMe drive hot-insert and hotremove are performed when mixing SAS/SATA and NVMe drives.
- Fix a rare issue that controller may assert if UBM backplane firmware update failed.
- Fix an assertion failure that may happens when running IO and task management. In this case, IO's marked for abort are getting completed before the firmware really get a chance to abort them.
- Fix an issue that Redfish client is allowed to create different RAID level on the existing span (parity group) configuration which is unsupported.
- Fix an issue that logical drive creation with "0" capacity creating full drive capacity in Redfish client. It is not allowed to use CapacityBytes less than 1GB.

## Enhancements

- Support non-hotplug backplane configuration which is used in HPE ProLiant MicroServer Gen11
    - All the Redfish Drive resources will be listed directly under storage with "%L<StorageId>/Drives/{DriveId}¨
    - Box field will not be displayed anywhere as there is no Box in this case
- LTO support
    - Please check Tape Compatibility matrix on SPoCK (www.hpe.com/storage/TapeCompatibilityMatrix)
    - On Linux, using IO sizes larger than 256KB may result in an error
    - Redfish support is not available for Tape drives
    - The Tape drive appears as a 0KB drive in MRSA and storcli
    - Note: LTO does not support OBSE. OBSE will show fail result on the server with LTO installed.
- Change SBR (secondary bus reset) handle method. With this change, the boot up time is shorten for the vm which has passthrough MR controller configured
- Firmware logging (snapdump) improvement
    - Include protocol layer logs from initial discovery at start of day to address Drive lost across reboots
    - Additional snapdumps are generated if drive failure conditions are detected
    - Use storcli /cx set captureSodPlLogs=<on|off> to enable/disable the function

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Firmware Package - HPE MR416i-p Gen10 Plus Tri Mode Controller
Version: 52.28.3-5681 **(Recommended)**
Filename: HPE_MR416i-p_Gen10P_52.28.3-5681_A.fwpkg

**Important Note!**

- **This firmware version to be used on HPE MR416i-p Gen10 Plus Controller.**
- **This new 7.28 release have not completed vSAN certification, please don't update for vSAN environment for now. Target to complete vSAN certification by end of December 2024.**

**Prerequisites**

iLO5 version should be at least 2.98 is required for **chassis&Fabric support.**

**Fixes**

- Fix a00138425en_us: HPE MR Gen10 Plus/Gen11 Controllers - The Health Status Is Erroneously Displayed As "OK" In The Server Health Tab After a Drive or Storage Volume is in a Failed State.
- Fix an issue that PLDM firmware update for controller and downstream device may failed due to checksum error.
- Fix an issue that ControllerPreviousError (0x7f833119) event may be logged in IML when there is large capacity NVMe drive installed and graceful shutdown.
- Fix an issue that controller may crash during firmware self-activation and cause iLO to show firmware update fail.
- Fix a rare issue that ControllerPreviousError (0x7f833119) event may be logged in IML when server reboot and there is firmware log migration.
- Fix a rare issue that imported secured drives in a span (parity group) became unsecured and data is not recovered. The issue happens only when all drives in a span are removed, re-insert and do import operation.
- Fix an issue that controller reset may occur and not be recovered when adding drives to do transformation and get logical drive information from storcli, MRSA or Redfish client simultaneously.
- Fix a rare issue that data mis compare may happen when simultaneously write and read data for many times before the written data is flushed to physical drive.
- Fix a rare issue that drive might be marked as Unconfigured Bad when hot-insert.
- Fix a rare issue that drive may be marked as Unconfigured Bad if there is link reset happens.
- Fix an issue that Read(32) or Write(32) CDB sent to NVMe drive reported incorrect additional sense code.
- Fix a rare issue that controller may stop responding when there is IO running and plugout drives to make volume offline.
- Fix an issue that drive removal events are delayed when NVMe drive hot-insert and hotremove are performed when mixing SAS/SATA and NVMe drives.
- Fix a rare issue that controller may assert if UBM backplane firmware update failed.
- Fix an assertion failure that may happens when running IO and task management. In this case, IO's marked for abort are getting completed before the firmware really get a chance to abort them.
- Fix an issue that Redfish client is allowed to create different RAID level on the existing span (parity group) configuration which is unsupported.
- Fix an issue that logical drive creation with "0" capacity creating full drive capacity in Redfish client. It is not allowed to use CapacityBytes less than 1GB.

**Enhancements**

- Support non-hotplug backplane configuration which is used in HPE ProLiant MicroServer Gen11
    - All the Redfish Drive resources will be listed directly under storage with "%L<StorageId>/Drives/{DriveId}¨
    - Box field will not be displayed anywhere as there is no Box in this case
- LTO support
    - Please check Tape Compatibility matrix on SPoCK (www.hpe.com/storage/TapeCompatibilityMatrix)
    - On Linux, using IO sizes larger than 256KB may result in an error
    - Redfish support is not available for Tape drives
    - The Tape drive appears as a 0KB drive in MRSA and storcli
    - Note: LTO does not support OBSE. OBSE will show fail result on the server with LTO installed.

Change SBR (secondary bus reset) handle method. With this change, the boot up time is shorten for the vm which has passthrough MR controller configured
- Firmware logging (snapdump) improvement
    - Include protocol layer logs from initial discovery at start of day to address Drive lost across reboots
    - Additional snapdumps are generated if drive failure conditions are detected
    - Use storcli /cx set captureSodPlLogs=<on|off> to enable/disable the function

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Firmware Package - HPE SR932i-p Gen10 Plus /SR416i-a Gen10 Plus/SR932i-p Gen11/SR416ie-m Gen11 Controllers
Version: 03.01.30.106 **(Recommended)**
Filename: HPE_SR416_SR932_Gen10P_Gen11_03.01.30.106_A.fwpkg

## Fixes

- Fixed an issue where the host experienced BSOD while clearing the controller configuration.
- Fixed controller lockups caused by incorrect address reads and partial RAM initialization for PCIe functions, leading to ECC errors.
- Fixed an issue where a possible controller lockup was observed after a factory reset.
- Fixed issues with external storage.
- Fixed issues with the SATA drive.
- Fixed issues with the SED drive.
- Fixed issues with the spare drive.
- Corrected MCTP-related issues.
- Fixed SPDM-related issues.
- Fixed issues related to volume creation and rebuilding.
- Fixed volume issues on the failed drive.
- Fixed surface scan issues on the RAID 50.
- Fixed issues encountered during heavy I/O operations.
- Fixed issues for incorrect Severity reported in Redfish events.
- Fixed issues for incorrect Status reported in Redfish resources.
- Fixed an issue with improper capacity information in Redfish drive Name.
- Fixed an issue where Redfish long running task status is not reported.
- Fixed an issue where DurableNameFormat for RAID volumes are reported as UUID in RDE READ operations, but should be NAA.
- Fixed an issue where failed to take ownership of, or to revert, a SED through Redfish.
- Fixed an issue when a drive hosting a RAID 0 Volume is removed and reinserted, a VolumeOK event is not generated.

## Enhancements

- Added support for saving Managed SED master key and reset key in cipher text in controller NVRAM instead of clear text.
- Changed temperature polling period from 1 minute to 5 minutes for HBA mode drives that are in low power state.
- Added support for clearing UREs in unmapped LBA range of fault tolerant logical drives.
- Improved RAID 1/10 write sequential performance.
- Added support for SED encryption configuration through Redfish interface.
- Added support of Redfish Chassis implementation for UBM Backplanes.
- Added Redfish ACTION:
    - Storage.SetEncryptionKey
- Added support for Redfish property PATCH:
    - Storage.EncryptionMode
    - Storage.HotspareActivationPolicy
    - Drive.HostspareReplacementMode
    - Drive.HotspareType
    - Volume.Encrypted
- Added support for Redfish Status.Conditions property to resources:
    - Drive
    - Port
    - StorageController
    - StorageController.CacheSummary
    - Volume
- Added support for Redfish properties:
    - Drive.DriveFormFactor
    - Drive.FirmwareVersion
    - Drive.Manufacture (SAS only)
    - Drive.SlotCapableProtocols
    - StorageController.AssetTag
    - StorageController.Links.PCIeFunction
    - Volume.BlockSizeBytes
    - Volume.LogicalUnitNumber
- Added support for PLDM Type5 UBM PIC firmware flashing behind expander.

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HPE D3600/D3700/D3610/D3710 12Gb SAS Disk Enclosure ROM Flash Component for VMware (ESXi)
Version: 5.04 (I) **(Recommended)**

Filename: CP062060.compsig; CP062060.md5; CP062060.zip

**Important Note!**

**IMPORTANT:** Firmware updates must be performed during a system maintenance window, with all I/O to the system halted. In single domain configuration, if user hosts an OS in D3000(or any storage box) and flash the SEPs, it will hang/crash everytime as SmartComponent will reset the SEPs after flash/codeload.

**WARNING!** Do not power cycle or restart during the firmware update as this can result in loss of capabilities for this unit. It typically takes several minutes for the firmware to load.

**NOTE:** All firmware flash progress messages are logged to /var/cpq/D3000.log and flash summary is logged to /var/cpq/Component.log.

**Prerequisites**

IMPORTANT: Firmware updates must be performed during a system maintenance window, with all I/O to the system halted.

WARNING! Do not power cycle or restart during the firmware update as this can result in loss of capabilities for this unit. It typically takes several minutes for the firmware to load.

NOTE: All firmware flash progress messages are logged to /var/cpq/D3000.log and flash summary is logged to /var/cpq/Component.log.

**Fixes**

**The following fixes were incorporated in this version:**

- The Enabled-ClusterS2D command now completes successfully when executed on a SATA drive within a D3610 disk enclosure for a NonStop solution.

- The smart carrier, which is the drive case for SAS drives, now authenticates in the D3610/D3710 drive enclosure.

- Added new 7-segment error codes E0 and E1 to report issues with Fan modules A and B, respectively. These new codes only apply to the D3610/D3710 and only display when running firmware 5.04.

- If the storage enclosure processor within the I/O module fails, a hard reset (power down and then power up) is executed to ensure the processor comes back online.

Please refer to the [Release Notes](#) for the complete listing of fixes, enhancements, known issues and work-arounds corresponding to this firmware.

**Enhancements**

Added support of ESXi 8.0 U1

**Supported Devices and Features**

The D3600 / D3700 / D3610 / D3710 Enclosure can be attached to any of the following HPE Storage Controllers and Host Bus Adapters :

- Smart Array P408e-p Controller
- Smart Array E208e-p Controller

---

HPE D3610B/D3710B 12Gb SAS Disk Enclosure ROM Flash Component for VMware (ESXi)
Version: 6.00 (C) **(Recommended)**
Filename: CP062063.compsig; CP062063.md5; CP062063.zip

**Important Note!**

**IMPORTANT:** Firmware updates must be performed during a system maintenance window, with all I/O to the system halted. In single domain configuration, if user hosts an OS in D3000B(or any storage box) and flash the SEPs, it will hang/crash everytime as SmartComponent will reset the SEPs after flash/codeload.

**WARNING!** Do not power cycle or restart during the firmware update as this can result in loss of capabilities for this unit. It typically takes several minutes for the firmware to load.

**NOTE:** All firmware flash progress messages are logged to /var/cpq/D3000B.log and flash summary is logged to /var/cpq/Component.log.

## Prerequisites

IMPORTANT: Firmware updates must be performed during a system maintenance window, with all I/O to the system halted.

WARNING! Do not power cycle or restart during the firmware update as this can result in loss of capabilities for this unit. It typically takes several minutes for the firmware to load.

NOTE: All firmware flash progress messages are logged to /var/cpq/D3000B.log and flash summary is logged to /var/cpq/Component.log.

## Fixes

**The following fixes were incorporated in this version:**

- Code optimization to save memory repo.

- TLB exception seen while doing esp reset when expander reset was in progress.

- Added the psoc 8.93 binary in peripheral images, updated the reveille version numbers.

- Added whole new Delta PS-pmbus code , Updated the ESP version number.

Please refer to the Release Notes for the complete listing of fixes, enhancements, known issues and work-arounds corresponding to this firmware.

## Enhancements

Added support of ESXi 8.0 U1

## Supported Devices and Features

The D3610B / D3710B Enclosure can be attached to any of the following HPE Storage Controllers and Host Bus Adapters :

- Smart Array P408e-p Controller
- Smart Array E208e-p Controller

---

HPE D6020 12Gb SAS Disk Enclosure ROM Flash Component for VMware (ESXi)
Version: 2.74 (P) **(Recommended)**
Filename: CP062066.compsig; CP062066.md5; CP062066.zip

## Important Note!

**IMPORTANT:** Firmware updates must be performed during a system maintenance window, with all I/O to the system halted. In single domain configuration, if user hosts an OS in D6020(or any storage box) and flash the SEPs, it will hang/crash everytime as SmartComponent will reset the SEPs after flash/codeload.

**WARNING!** Do not power cycle or restart during the firmware update as this can result in loss of capabilities for this unit. It typically takes several minutes for the firmware to load.

**NOTE:** All firmware flash progress messages are logged to /var/cpq/D6020.log and flash summary is logged to /var/cpq/Component.log.

## Prerequisites

IMPORTANT: Firmware updates must be performed during a system maintenance window, with all I/O to the system halted.

WARNING! Do not power cycle or restart during the firmware update as this can result in loss of capabilities for this unit. It typically takes several minutes for the firmware to load.

NOTE: All firmware flash progress messages are logged to /var/cpq/D6020.log and flash summary is logged to /var/cpq/Component.log.

## Fixes

**The following fixes were incorporated in this version:**

- Temperature sensors logic inside gSEP model and SES database
- When an IOM is pulled the surviving IOM reports false critical temperatures

Please refer to the Release Notes for the complete listing of fixes, enhancements, known issues and work-arounds corresponding to this firmware.

## Enhancements

Added support of ESXi 8.0 U1

## Supported Devices and Features

The D6020 Enclosure can be attached to any of the following HPE Storage Controllers and Host Bus Adapters :

- Smart Array P408e-p Controller
- Smart Array E208e-p Controller

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HPE D8000 12Gb SAS Disk Enclosure ROM Flash Component for VMware (ESXi)
Version: 0130 (D) **(Recommended)**
Filename: CP062069.compsig; CP062069.md5; CP062069.zip

## Important Note!

**IMPORTANT:** Firmware updates must be performed during a system maintenance window, with all I/O to the system halted. In single domain configuration, if user hosts an OS in D8000(or any storage box) and flash the SEPs, it will hang/crash everytime as SmartComponent will reset the SEPs after flash/codeload.

**WARNING!** Do not power cycle or restart during the firmware update as this can result in loss of capabilities for this unit. It typically takes several minutes for the firmware to load.

**NOTE:** All firmware flash progress messages are logged to /var/cpq/D8000.log and flash summary is logged to /var/cpq/Component.log.

## Prerequisites

IMPORTANT: Firmware updates must be performed during a system maintenance window, with all I/O to the system halted.

WARNING! Do not power cycle or restart during the firmware update as this can result in loss of capabilities for this unit. It typically takes several minutes for the firmware to load.

NOTE: All firmware flash progress messages are logged to /var/cpq/D8000.log and flash summary is logged to /var/cpq/Component.log.

## Fixes

**The following fixes were incorporated in this version:**

- Smart Array reporting "Storage Enclosure FW upgrade Problem Detected".
- PSU version is showing as "No Ver" after inserted the New bel power PSU.
- GEM_5_2 Coverity defect fix.

Please refer to the [Release Notes](#) for the complete listing of fixes, enhancements, known issues and work-arounds corresponding to this firmware.

## Enhancements

Added support of ESXi 8.0 U1

## Supported Devices and Features

The D8000 Enclosure can be attached to any of the following HPE Storage Controllers and Host Bus Adapters :

- HPE Smart Array P408e-p Controller
- HPE Smart Array E208e-p Controller

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Online Firmware Flash for ESXi - HPE Gen10 Plus Boot Controller NS204i-p, NS204i-d, NS204i-t, NS204i-r
Version: 1.0.14.1063 **(Recommended)**
Filename: CP056151.compsig; CP056151.zip

## Important Note!

- VMware **7.0u1 is** supported by HPE NS204i-p, NS204i-d, NS204i-t and NS204i-r Gen10+ Boot Controller
- **VMware 7.0 is NOT supported by HPE NS204i-p, NS204i-d, NS204i-t and NS204i-r Gen10+ Boot Controller**
- **This version is the minimum required version for Gen10 Plus device to upgrade to latest FW**
- **You can get Firmware Package version 1.2.14.1004 or latest FW version from https://www.hpe.com/global/swpublishing/MTX-318c8e8298704d8bb4f991eb4d and update it via iLO without any OS dependency.**

## Fixes

Fix known issue on v1055 regarding RDE dictionary broken which will cause unexpected FW upgrading error.

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Online ROM Flash Component for VMware ESXi - HPE 12Gb/s SAS Expander Firmware for HPE Smart Array Controllers and HPE HBA Controllers
Version: 5.15 (B) **(Recommended)**
Filename: CP057012.compsig; CP057012.zip

## Important Note!

- **Do NOT downgrade FW to previous version if your current expander is 5.10; please upgrade to 5.15 immediately.**

## Enhancements

- Support HPE ProLiant DL180 Gen10 Server

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Online ROM Flash Component for VMware ESXi - HPE Smart Array P408i-p, P408e-p, P408i-a, E208i-p, E208e-p, E208i-a, P816i-a SR Gen10
Version: 5.61 (D) **(Recommended)**
Filename: CP057475.compsig; CP057475.zip

## Enhancements

Support Gen10, Gen10 Plus and Gen11 servers

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Online ROM Flash Component for VMware ESXi - HPE Smart Array P408i-p, P408e-p, P408i-a, E208i-p, E208e-p, E208i-a, P816i-a SR Gen10
Version: 7.11 **(Recommended)**
Filename: CP059505.compsig; CP059505.zip

## Fixes

- Fixed an issue where the host experienced BSOD while clearing the controller configuration.
- Fixed controller lockups caused by incorrect address reads and partial RAM initialization for PCIe functions, leading to ECC errors.
- Fixed issues with external storage.
- Fixed issues with the SATA drive.
- Fixed issues with the SED drive.
- Fixed issues with the spare drive.
- Corrected MCTP-related issues.
- Fixed surface scan issues on the RAID 50.
- Fixed issues encountered during heavy I/O operations.
- Fixed volume issues on the failed drive.
- Fixed issues for incorrect Severity reported in Redfish events.
- Fixed issues for incorrect Status reported in Redfish resources.
- Fixed an issue with improper capacity information in Redfish drive Name.
- Fixed an issue where Redfish long running task status is not reported.
- Fixed an issue where DurableNameFormat for RAID volumes are reported as UUID in RDE READ operations, but should be NAA.
- Fixed an issue where failed to take ownership of, or to revert, a SED through Redfish.
- Fixed an issue when a drive hosting a RAID 0 Volume is removed and reinserted, a VolumeOK event is not generated.
- Fixed an issue where ILORest return "AccelerationMethod" as "ControllerCache" instead of "none" when controller cache is not enable or preset.

## Enhancements

- Added support for saving Managed SED master key and reset key in cipher text in controller NVRAM instead of clear text.
- Changed temperature polling period from 1 minute to 5 minutes for HBA mode drives that are in low power state.
- Added support for clearing UREs in unmapped LBA range of fault tolerant logical drives.
- Improved random write and mixed read-write performance.
- Added support for SED encryption configuration through Redfish interface.
- Added support of Redfish Chassis implementation for UBM Backplanes.
- Added Redfish ACTION:
    - Storage.SetEncryptionKey
- Added support for Redfish property PATCH:
    - Storage.EncryptionMode

- Storage.HotspareActivationPolicy
- Drive.HostspareReplacementMode
- Drive.HotspareType
- Volume.Encrypted
  - Added support for Redfish Status.Conditions property to resources:
    - Drive
    - Port
    - StorageController
    - StorageController.CacheSummary
    - Volume
  - Added support for Redfish properties:
    - Drive.DriveFormFactor
    - Drive.FirmwareVersion
    - Drive.Manufacture (SAS only)
    - Drive.SlotCapableProtocols
    - StorageController.AssetTag
    - StorageController.Links.PCIeFunction
    - Volume.BlockSizeBytes
    - Volume.LogicalUnitNumber
  - Added support for PLDM Type5 UBM PIC firmware flashing behind expander.

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| **Firmware - Storage Fibre Channel** | |

HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 8.0
Version: 2024.09.01 **(Recommended)**
Filename: CP059672.compsig; CP059672.zip

**Important Note!**

**Release notes:**

Broadcom Release notes

This Firmware package contains following firmware versions:

| Adapter | Speed | Universal Boot Image | Firmware | UEFI | Boot Bios |
|---|---|---|---|---|---|
| HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter | 16Gb | 14.4.329.10 | 14.4.329.10 | 14.4.329.9 | 14.4.290.0 |
| HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter | 16Gb | 14.4.329.10 | 14.4.329.10 | 14.4.329.9 | 14.4.290.0 |
| HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter | 32Gb | 14.4.329.10 | 14.4.329.10 | 14.4.329.9 | 14.4.290.0 |
| HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter | 32Gb | 14.4.329.10 | 14.4.329.10 | 14.4.329.9 | 14.4.290.0 |
| HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter | 32Gb | 14.4.329.10 | 14.4.329.10 | 14.4.329.9 | 14.4.290.0 |
| HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter | 32Gb | 14.4.329.10 | 14.4.329.10 | 14.4.329.9 | 14.4.290.0 |
| HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter | 64Gb | 14.4.329.10 | 14.4.329.10 | 14.4.329.9 | 14.4.290.0 |
| HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter | 64Gb | 14.4.329.10 | 14.4.329.10 | 14.4.329.9 | 14.4.290.0 |

**Prerequisites**

Please consult SPOCK for a list of supported configurations available at the following link:

http://www.hpe.com/storage/spock/

**Enhancements**

This Firmware package contains following firmware versions:

| Adapter | Speed | Universal Boot Image | Firmware | UEFI | Boot Bios |
|---|---|---|---|---|---|
| HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter | 16Gb | 14.4.329.10 | 14.4.329.10 | 14.4.329.9 | 14.4.290.0 |
| HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter | 16Gb | 14.4.329.10 | 14.4.329.10 | 14.4.329.9 | 14.4.290.0 |
| HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter | 32Gb | 14.4.329.10 | 14.4.329.10 | 14.4.329.9 | 14.4.290.0 |
| HPE SN1600E 32Gb Single Port Fibre Channel Host Bus | 32Gb | 14.4.329.10 | 14.4.329.10 | 14.4.329.9 | 14.4.290.0 |

| Adapter | | | | | | |
|---|---|---|---|---|---|---|
| HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter | 32Gb | 14.4.329.10 | | 14.4.329.10 | 14.4.329.9 | 14.4.290.0 |
| HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter | 32Gb | 14.4.329.10 | | 14.4.329.10 | 14.4.329.9 | 14.4.290.0 |
| HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter | 64Gb | 14.4.329.10 | | 14.4.329.10 | 14.4.329.9 | 14.4.290.0 |
| HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter | 64Gb | 14.4.329.10 | | 14.4.329.10 | 14.4.329.9 | 14.4.290.0 |

## Supported Devices and Features

This component is supported on following Emulex Fibre Channel Host Bus adapters:

**16Gb FC Adapter:**

- HPE SN1200E 16Gb Dual Port  Fibre Channel Host Bus Adapter
- HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter

**32Gb FC Adapter:**

- HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1610E 32Gb Dual port Fibre Channel Host Bus Adapter
- HPE SN1610E 32Gb Single port Fibre Channel Host Bus Adapter

**64Gb FC Adapter:**

- HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter

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HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 8.0
Version: 2024.09.01 **(Recommended)**
Filename: CP059846.compsig; CP059846.zip

## Important Note!

Release Notes:
HPE QLogic Adapters Release Notes

This Firmware package contains following firmware versions:

| Adapter | Speed | MBI | Firmware | UEFI | Boot Bios |
|---|---|---|---|---|---|
| HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter | 16Gb | 02.04.01 | 9.15.00 | 7.25 | 3.68 |
| HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter | 16Gb | 02.04.01 | 9.15.00 | 7.25 | 3.68 |
| HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter | 32Gb | 02.04.01 | 9.15.00 | 7.25 | 3.68 |
| HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter | 32Gb | 02.04.01 | 9.15.00 | 7.25 | 3.68 |
| HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter | 32Gb | 02.10.00 | 09.15.00 | 7.36 | 0.0 |
| HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter | 32Gb | 02.10.00 | 09.15.00 | 7.36 | 0.0 |
| HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter | 64Gb | 02.10.00 | 09.15.00 | 7.36 | 0.0 |
| HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter | 64Gb | 02.10.00 | 09.15.00 | 7.36 | 0.0 |

## Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:

http://www.hpe.com/storage/spock/

## Enhancements

This Firmware package contains following firmware versions:

| Adapter | Speed | MBI | Firmware | UEFI | Boot Bios |
|---|---|---|---|---|---|
| HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter | 16Gb | 02.04.01 | 9.15.00 | 7.25 | 3.68 |
| HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter | 16Gb | 02.04.01 | 9.15.00 | 7.25 | 3.68 |
| HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter | 32Gb | 02.04.01 | 9.15.00 | 7.25 | 3.68 |

| HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter | 32Gb | 02.04.01 | 9.15.00 | 7.25 | 3.68 |
|---|---|---|---|---|---|
| HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter | 32Gb | 02.10.00 | 09.15.00 | 7.36 | 0.0 |
| HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter | 32Gb | 02.10.00 | 09.15.00 | 7.36 | 0.0 |
| HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter | 64Gb | 02.10.00 | 09.15.00 | 7.36 | 0.0 |
| HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter | 64Gb | 02.10.00 | 09.15.00 | 7.36 | 0.0 |

### Supported Devices and Features

This component is supported on following Qlogic Fibre Channel Host Bus adapters:

**16Gb Fibre Channel Host Bus Adapter:**

- HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter
- HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter

**32Gb Fibre Channel Host Bus Adapter:**

- HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter

**64Gb Fibre Channel Host Bus Adapter:**

- HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter

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**Software - Management**

HPE Agentless Management Bundle Smart Component on ESXi for Gen10 and Gen10 Plus Servers
Version: 2024.03.01 **(Recommended)**
Filename: cp059815.compsig; cp059815.zip

### Fixes

**Agentless Management Service**

- Fixed OID name hrSystemUptime is reported incorrectly

---

HPE Fiber Channel and Storage Enablement Bundle Smart Component for ESXi 8.0
Version: 2024.09.01 **(Recommended)**
Filename: cp062083.compsig; cp062083.zip

### Enhancements

This product carries SBOM signatures.

---

HPE iLO Driver Bundle Smart Component for ESXi 7.0 and ESXi 8.0
Version: 2024.09.00 **(Recommended)**
Filename: cp062952.compsig; cp062952.zip

### Enhancements

Revise the product name to support ESXi 8.0.

---

Smart Storage Administrator (SSA) CLI Smart Component for ESXi 8.0 for Gen10/Gen10 Plus/Gen11 Controllers
Version: 2024.10.01 **(Recommended)**
Filename: cp059215.compsig; cp059215.zip

### Important Note!

Actual ESXi Version is 6.40.6.0

### Fixes

- Fixed an issue on VMware ESXi 8.0 U2 where not all controllers were shown via esxcli.
- Fixed an issue on VMware ESXi 8.0 U2 where the create and delete config, as well as other modify operations, were not

working.
- Fixed an issue where failed drive details were displayed multiple times in the 'show config' output.
- Fixed incorrect error messages displayed in SSACLI when the modify command threw an error if the 'drive' and 'drivetype' parameters coexisted.
- Fixed an issue where the array creation command failed when executed with the drives=all and drivetype=sata_hdd parameters.
- Fixed an issue where the drives behind the enclosures were missing in the SSACLI output.
- Fixed an issue where users encountered a failure when launching the SSASCRIPTING tool to restore a RAID configuration with an unsupported parameter for PrebootHealthReporting.

## Enhancements

- To improve the output format of the NVMe drive health log for the show command.

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**Software - Storage Controller**  **Top**

HPE MegaRAID Storage Administrator StorCLI for VMware8.0 (For Gen10P and Gen11 Controllers)
Version: 2024.10.01 **(Recommended)**
Filename: cp060854.compsig; cp060854.zip

## Important Note!

Actual ESXi Version is 007.2812.0000.0000

## Enhancements

- Support Non-Hotplug configurations
- Add Transport Level Retries (TLR) LTO Tape Drive support
- Support upgrading from VMware ESXi 7 to VMware ESXi 8
- Enhance MR controller logging to include PL (protocol layer) logs from initial
- discovery at Start of the day to address Drive lost across reboots
  - storcli /cx show captureSodPlLogs
  - storcli /cx set captureSodPlLogs=<on|off>

---

**Software - Storage Fibre Channel**  **Top**

HPE QLogic Fibre Channel driver component for VMware vSphere 8.0
Version: 2024.09.01 **(Recommended)**
Filename: cp061880.compsig; cp061880.zip

## Important Note!

Release Notes:
HPE QLogic Adapters Release Notes

This component is intended to be used by HPE applications.  It is a zip that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CPXXXX.xml file.
This driver is only supported on VMware ESXi 8.0u3

## Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:

http://www.hpe.com/storage/spock/

## Enhancements

Driver version 5.4.83.1
This driver is only supported on VMware ESXi 8.0u3

## Supported Devices and Features

This component is supported on following Qlogic Fibre Channel Host Bus adapters:

**16Gb Fibre Channel Host Bus Adapter:**

- HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter
- HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter

**32Gb Fibre Channel Host Bus Adapter:**

- HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter

**64Gb Fibre Channel Host Bus Adapter:**

- HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter

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HPE QLogic Fibre Channel driver component for VMware vSphere 8.0
Version: 2024.09.01 **(Recommended)**
Filename: cp062113.compsig; cp062113.zip

## Important Note!

Release Notes:
HPE QLogic Adapters Release Notes

This component is intended to be used by HPE applications.  It is a zip that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CPXXXX.xml file.

## Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:

http://www.hpe.com/storage/spock/

## Enhancements

Driver version 5.4.82.1

## Supported Devices and Features

This component is supported on following Qlogic Fibre Channel Host Bus adapters:

**16Gb Fibre Channel Host Bus Adapter:**

- HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter
- HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter

**32Gb Fibre Channel Host Bus Adapter:**

- HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter

**64Gb Fibre Channel Host Bus Adapter:**

- HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter

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**Software - System Management**
HPE Agentless Management Bundle for ESXi for HPE Gen10 and Gen10 Plus Servers
Version: 701.11.10.0 **(Recommended)**
Filename: amsdComponent_701.11.10.0.4-1_23433471.zip

## Fixes

**Agentless Management Service**

- Fixed OID name hrSystemUptime is reported incorrectly

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HPE Fiber Channel and Storage Enablement Component for ESXi 8.0
Version: 3.9.0 **(Recommended)**

Filename: fc-enablement-component_800.3.9.0.30-1_20300413.zip

**<u>Enhancements</u>**

Supports VMware ESXi 8.0

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hpe.com/info/getconnected

Current HPE driver, support, and security alerts delivered directly to your desktop

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