

## 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](#)

## Gen12 SPP 2025.11.01.00 Release Notes for VMware ESXi 9.0

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### BIOS - System ROM

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ROM Flash Firmware Package - HPE ProLiant Compute DL360/DL380/ML350 Gen12/Alletra Storage Server 4210 Servers (U68) Servers  
Version: 1.52\_10-03-2025 (**Recommended**)  
Filename: U68\_1.52\_10\_03\_2025.fwpkg; U68\_1.52\_10\_03\_2025.json

### Important Note!

#### Important Notes:

This version of the System ROM contains updates aligned with GNR/SRF UPLR1.5 updates.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

#### Deliverable Name:

HPE DL360 Gen12/DL380 Gen12/ML350 Gen12 System ROM - U68

#### Release Version:

1.52\_10-03-2025

#### Last Recommended or Critical Revision:

1.52\_10-03-2025

#### Previous Revision:

1.50\_09-05-2025

#### Firmware Dependencies:

None

#### Enhancements/New Features:

Updated the PCIe DeEmphasis setting for specific front OCP cases on the DL380 Gen12.

#### Problems Fixed:

Addressed an issue preventing PXE boot functionality when 400G NIC cards are present in the system

Addressed an issue where the setting change of "UPI Link Enablement" under "System Utilities > System Configuration > RBSU > Power and Performance Options > Intel UPI Options" may not have been applied successfully.

Addressed an issue where the setting change of "UPI Link Power Management" under "System Utilities > System Configuration > RBSU > Power and Performance Options > Intel UPI Options" may not have been properly applied.

Addressed an issue that could prevent system boot when 10x RTX6000 Pro GPU cards are installed (DL380a).

Addressed an issue where the ACPI BERT table was not exportable via UEFI/ROM.

Addressed an issue where the setting change of "PCIe ASPM Support" under "System Utilities > System Configuration > RBSU > PCIe Device Configuration > Advanced PCIe Configuration > PCIe ASPM Support (Global)" may not have been properly applied.

Addressed an issue where PCR values could be reported as changed following a system reboot.

Addressed an issue where the system TPM-0 measurements might change after a system reboot.

Addressed an issue where a failed delete operation via the Redfish API could inadvertently remove the system Redfish URI.

Addressed an issue where systems configured with dual 6980P processors might not display all processor cores in RBSU or the OS. (U66)

Addressed an issue where the system might list some null string under "Utilities> System Information> PCIe Device Information" when a MR932i-p is installed.

Addressed an issue where the system with VROC enabled might reboot when drives were Hot-Added.

#### Known Issues:

None

### Fixes

#### Important Notes:

This version of the System ROM contains updates aligned with GNR/SRF UPLR1.5 updates.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Firmware Dependencies:**

None

**Problems Fixed:**

Addressed an issue preventing PXE boot functionality when 400G NIC cards are present in the system

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Addressed an issue that could prevent system boot when 10x RTX6000 Pro GPU cards are installed (DL380a).

Addressed an issue where the ACPI BERT table was not exportable via UEFI/ROM.

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Addressed an issue where PCR values could be reported as changed following a system reboot.

Addressed an issue where the system TPM-0 measurements might change after a system reboot.

Addressed an issue where a failed delete operation via the Redfish API could inadvertently remove the system Redfish URI.

Addressed an issue where systems configured with dual 6980P processors might not display all processor cores in RBSU or the OS. (U66)

Addressed an issue where the system might list some null string under "Utilities> System Information> PCIe Device Information" when a MR932i-p is installed.

Addressed an issue where the system with VROC enabled might reboot when drives were Hot-Added.

**Known Issues:**

None

**Enhancements**

Updated the PCIe DeEmphasis setting for specific front OCP cases on the DL380 Gen12.

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ROM Flash Firmware Package - HPE ProLiant Compute XD230 (U66) Servers

Version: 1.52\_10-03-2025 (**Recommended**)

Filename: U66\_1.52\_10\_03\_2025.fwpkg; U66\_1.52\_10\_03\_2025.json

**Important Note!****Important Notes:**

This version of the System ROM contains updates aligned with GNR/SRF UPLR1.5 updates.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Deliverable Name:**

HPE ProLiant Compute XD230 System ROM - U66

**Release Version:**

1.52\_10-03-2025

**Last Recommended or Critical Revision:**

1.52\_10-03-2025

**Previous Revision:**

1.50\_09-05-2025

**Firmware Dependencies:**

None

**Enhancements/New Features:**

Updated the PCIe DeEmphasis setting for specific front OCP cases on the DL380 Gen12.

**Problems Fixed:**

Addressed an issue where system might not be able to perform PXE boot when 400G NICs are installed.

Addressed an issue where the setting change of "UPI Link Enablement" under "System Utilities > System Configuration > RBSU > Power and Performance Options > Intel UPI Options" might not take effect.

Addressed an issue where the setting change of "UPI Link Power Management" under "System Utilities > System Configuration > RBSU > Power and Performance Options > Intel UPI Options" might not take effect.

Addressed an issue where the system might not boot up when 10x RTX6000 Pro GPU cards are installed (DL380a).

Addressed an issue where the ACPI BERT table could not be exported by UEFI/ROM.

Addressed an issue where the setting change of "PCIe ASPM Support" under "System Utilities > System Configuration > RBSU > PCIe Device Configuration > Advanced PCIe Configuration > PCIe ASPM Support (Global)" might not take effect.

Addressed an issue where the system might have PCR value change be reported after system reboot.

Addressed an issue where the system TPM-0 measurements might change after system reboot.

Addressed an issue where the system Redfish URI might be removed after performing delete action through redfish API but failed.

Addressed an issue where the system with 2x6980P processors might encounter processor cores missing from RBSU and OS. (U66)

Addressed an issue where the system might list some null string under "Utilities> System Information> PCIe Device Information" when MR932i-p is installed.

Addressed an issue where the system with VROC enabled might get reboot when drives were Hot-Added.

#### Known Issues:

None

#### Fixes

##### Important Notes:

This version of the System ROM contains updates aligned with GNR/SRF UPLR1.5 updates.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

##### Firmware Dependencies:

None

##### Problems Fixed:

Addressed an issue where system might not be able to perform PXE boot when 400G NICs are installed.

Addressed an issue where the setting change of "UPI Link Enablement" under "System Utilities > System Configuration > RBSU > Power and Performance Options > Intel UPI Options" might not take effect.

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Addressed an issue where the system might not boot up when 10x RTX6000 Pro GPU cards are installed (DL380a).

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Addressed an issue where the setting change of "PCIe ASPM Support" under "System Utilities > System Configuration > RBSU > PCIe Device Configuration > Advanced PCIe Configuration > PCIe ASPM Support (Global)" might not take effect.

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Addressed an issue where the system TPM-0 measurements might change after system reboot.

Addressed an issue where the system Redfish URI might be removed after performing delete action through redfish API but failed.

Addressed an issue where the system with 2x6980P processors might encounter processor cores missing from RBSU and OS. (U66)

Addressed an issue where the system might list some null string under "Utilities> System Information> PCIe Device Information" when MR932i-p is installed.

Addressed an issue where the system with VROC enabled might get reboot when drives were Hot-Added.

#### Known Issues:

None

#### Enhancements

Updated the PCIe DeEmphasis setting for specific front OCP cases on the DL380 Gen12.

#### Driver - Network

HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0

Version: 2025.11.00 **(Recommended)**

Filename: cp068543.compsig; cp068543.zip

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##### Important Note!

- o 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 vibstdepot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.
- o HPE recommends the *HPE Broadcom NetXtreme-E Firmware Version*, 235.1.160000 or later, for use with this driver.

#### Fixes

This product fixes issue where the RoCE driver updated the RoCE priority from the Queue Pair and Address Handle context by suppressing that value and not propagating it to the L2 driver.

#### Enhancements

This product enhances the completion queue design to support two completion queues for each Notification Queue

#### Supported Devices and Features

This product supports the following network adapters:

- o HPE Ethernet 10Gb 2-port 535FLR-T Adapter
- o HPE Ethernet 10Gb 2-port 535T Adapter
- o HPE Ethernet 10Gb 2-port 537SFP+ Adapter
- o HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter
- o HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter
- o HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter
- o HPE Ethernet 10Gb 2-port SFP+ BCM57412 OCP3 Adapter

- o HPE Ethernet 10Gb 2-port SFP+ BCM57412 Adapter
- o HPE Ethernet 10Gb 2-port BaseT BCM57416 OCP3 Adapter
- o HPE Ethernet 10Gb 2-port BaseT BCM57416 Adapter
- o HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 OCP3 Adapter
- o HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter
- o Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- o Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE
- o Broadcom BCM57608 Ethernet 100Gb 2-port QSFP112 Adapter for HPE
- o Broadcom BCM57608 Ethernet 100Gb 2-port QSFP112 OCP3 Adapter for HPE

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HPE Intel ixgben Driver for VMware vSphere 9.0

Version: 2025.11.00 **(Recommended)**

Filename: cp068939.compsig; cp068939.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.

- o HPE recommends the firmware provided in *HPE Intel Online Firmware Upgrade Utility for VMware*, version 3.27.0 or later, for use with this driver.
- o HPE recommends the firmware provided in *Intel Firmware Package For E610-IT4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter*, version 1.22 or later, for use with this driver

#### **Enhancements**

This product VMware ESXi 9 supported.

#### **Supported Devices and Features**

These drivers support the following network adapters:

- o HPE Ethernet 10Gb 2-port 560SFP+ Adapter
- o HPE Ethernet 10Gb 2-port 560FLR-SFP+ Adapter
- o HPE Ethernet 10Gb 2-port 561T Adapter
- o HPE Ethernet 10Gb 2-port 561FLR-T Adapter
- o HPE Ethernet 10Gb 2-port 562T Adapter
- o HPE Ethernet 10Gb 2-port 562FLR-T Adapter
- o Intel E610-IT4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE

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Intel icen Driver for VMware vSphere 9.0

Version: 2025.11.00 **(Recommended)**

Filename: cp067479.compsig; cp067479.zip

#### **Important Note!**

- o 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.
- o HPE recommends the firmware provided in *Intel Firmware Package For E810 Ethernet Adapter*, version 4.90 or later, for use with these drivers.

#### **Enhancements**

This product VMware ESXi 9 supported.

#### **Supported Devices and Features**

This product supports the following network adapters:

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

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#### **Driver - Storage Controller**

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HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 9.0

Version: 2025.09.01 **(Recommended)**

Filename: cp067967.compsig; cp067967.zip

#### **Important Note!**

- o Actual Version is 7.732.04.00

#### **Fixes**

- o Fix a00145710en\_us: HPE MR Gen11 and Gen10 Plus Storage Controllers - Purple Screen of Death (PSOD) May Be Observed When Updating Controller Firmware Via Service Pack for ProLiant (SPP) in Remote Deployment Mode With a VMware ESXi OS

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HPE ProLiant Gen10 Smart Array and Gen10 Plus and Gen11 Smart RAID Controller Driver for VMware vSphere 9.0 (Driver Component).

Version: 2025.09.01 **(Recommended)**

Filename: cp067562.compsig; cp067562.zip

### **Important Note!**

- o Actual ESXi9.0 driver version is 90.4862.0.104
- o HPE Service Pack for ProLiant (SPP) provides a fully qualified recipe for specific firmware and drivers released within the same cycle, making it the primary recommended choice.
- o It is strongly recommended to use controller firmware version 7.81 for SR SAS/SATA controllers and firmware version 03.01.41.032 for SR tri-mode controllers, along with Windows driver version 1016.24.0.1002, Linux driver version 2.1.36-026, and VMware ESXi driver version 4862.0.104, as this combination has been fully qualified.

### **Fixes**

- o Fixed PSOD indicates a divide-by-zero happened.
- o Fixed an issue where the driver's controller structure field was too small for the full ASCII firmware version.
- o Fixed an issue where a message from a periodic check on the controller heartbeat appeared as a system error instead of an informational message.
- o Fixed an issue where firmware versioning information was incorrect or blank on some of the controllers.
- o Fixed an issue where in a specific scenario, the device removal handler attempts to remove a device that has already been removed by the normal device discovery flow.

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## **Firmware - Network**

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Broadcom Firmware Package for BCM5741x adapters

Version: 235.1.164.14 (**Recommended**)

Filename: bcm235.1.164.14.fwpkg; bcm235.1.164.14.json

### **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,

- o Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 235.1.122.0 or later
- o HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-235.1.154.0 or later
- o HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.11.00 or later

### **Fixes**

- o This product fixes the issue where the firmware version details failed to update and the card showed as not operational after upgrading BCM5741x adapters
- o This product fixes the issue where failed to detect a 10GBASE-LR SFP+ causing incorrect defaults and a link failure.
- o This product fixes the issue where iLO BMC shared IP on OCP NIC, link flap occurred during OS reboot.

### **Enhancements**

This product enhancement enables a self-shutdown feature to prevent overheating when certain monitoring features are disabled.

It applies only to newer hardware that originally shipped with firmware version 223.1.135.7 or higher and is not enabled on earlier revisions.

### **Supported Devices and Features**

This product supports the following network adapters:

- o HPE Ethernet 10Gb 2-port SFP+ BCM57412 Adapter
- o HPE Ethernet 10Gb 2-port SFP+ BCM57412 OCP3 Adapter
- o HPE Ethernet 10Gb 2-port BaseT BCM57416 Adapter
- o HPE Ethernet 10Gb 2-port BaseT BCM57416 OCP3 Adapter
- o HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter
- o HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 OCP3 Adapter

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Broadcom Firmware Package for BCM5750x adapters

Version: 235.1.160.0 (**Recommended**)

Filename: bcm235.1.160.0\_Thor.fwpkg; bcm235.1.160.0\_Thor.json

### **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,

- o Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 235.1.122.0 or later
- o HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-235.1.154.0 or later
- o HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.11.00 or later

### **Fixes**

This product fixes the issue where, in breakout mode, a cable remove or insert failed to bring the link up because the module did not exit the DPDeactivated (Data Path Deactivated) state in time.

### **Enhancements**

This product enhances the handling of link status during D0 to D3 power domain transition.

### **Supported Devices and Features**

This product supports the following network adapters:

- o Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- o Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

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Broadcom Firmware Package for BCM57608 100GbE 2p Adapter

Version: 235.1.160.0 (**Recommended**)

Filename: BCM235.1.160.0\_BCM957608-P2100HQF00.fwpkg; BCM235.1.160.0\_BCM957608-P2100HQF00.json

### **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,

- Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 235.1.122.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-235.1.154.0 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.11.00 or later

### **Fixes**

- This product fixes the issue where, in breakout mode, a cable remove or insert failed to bring the link up because the module did not exit the DPDeactivated (Data Path Deactivated) state in time.
- This product fixes the issue where RDE NetworkAdapter schema Location property is missing
- This product fixes the issue where the adapter might be missing during the system reboot.

### **Enhancements**

This product enhances the handling of link status during D0 to D3 power domain transition.

### **Supported Devices and Features**

This product supports the following network adapters:

- Broadcom BCM57608 Ethernet 100Gb 2-port QSFP112 Adapter for HPE

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Broadcom Firmware Package for BCM57608 100GbE 2p OCP3 Adapter

Version: 235.1.160.0 (**Recommended**)

Filename: BCM235.1.160.0\_BCM957608-N2100HQI00.fwpkg; BCM235.1.160.0\_BCM957608-N2100HQI00.json

### **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,

- Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 235.1.122.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-235.1.154.0 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.11.00 or later

### **Fixes**

- This product fixes the issue where, in breakout mode, a cable remove or insert failed to bring the link up because the module did not exit the DPDeactivated (Data Path Deactivated) state in time.
- This product fixes the issue where RDE NetworkAdapter schema Location property is missing
- This product fixes the issue where the adapter might be missing during the system reboot.

### **Enhancements**

This product enhances the handling of link status during D0 to D3 power domain transition.

### **Supported Devices and Features**

This product supports the following network adapters:

- Broadcom BCM57608 Ethernet 100Gb 2-port QSFP112 OCP3 Adapter for HPE

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Broadcom NX1 Firmware Package for BCM5719 adapter

Version: 20.35.41 (**Recommended**)

Filename: BCM5719A1907HC-4x1G-20.35.41.fwpkg; BCM5719A1907HC-4x1G-20.35.41.json

### **Important Note!**

HPE recommends *HPE Broadcom tg3 Ethernet Drivers*, versions 3.139w or later, for use with this firmware.

### **Fixes**

- This product fixes the issue where unique serial number in VPD (Vital Product Data) will be altered to a dummy serial number
- This product fixes the issue where Failing to Obtain iLO shared NIC DHCP IP and MCTP EID Missing during Reboot.
- This product fixes the issue where PCI Temperature sensor might be missing intermittently causing Increase in Fan Speed

### **Supported Devices and Features**

This product supports the following network adapter:

- Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE

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Broadcom NX1 Firmware Package for BCM5719 OCP3 adapter

Version: 20.35.41 (**Recommended**)

Filename: BCM5719N1905HC-4x1G-20.35.41.fwpkg; BCM5719N1905HC-4x1G-20.35.41.json

#### **Important Note!**

HPE recommends *HPE Broadcom tg3 Ethernet Drivers*, versions 3.139w or later, for use with this firmware.

#### **Fixes**

- This product fixes the issue where unique serial number in VPD (Vital Product Data) will be altered to a dummy serial number
- This product fixes the issue where Failing to Obtain iLO shared NIC DHCP IP and MCTP EID Missing during Reboot.
- This product fixes the issue where PCI Temperature sensor might be missing intermittently causing Increase in Fan Speed

#### **Supported Devices and Features**

This product supports the following network adapter:

- Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE

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Intel Firmware Package For E610-IT4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter

Version: 1.30 (**Recommended**)

Filename: HPE\_E610\_IT4\_OCP\_1p30\_8000E897.fwpkg; HPE\_E610\_IT4\_OCP\_1p30\_8000E897.json

#### **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,

- Intel ixs Driver for Microsoft Windows Server, version 4.2.7.0 or later
- Intel ixgbe Drivers for Linux, version 6.2.5-1 or later
- Intel ixgben Driver for VMware, version 2025.11.00 or later

#### **Fixes**

- This product fixed RDE PATCH for WakeOnLANEnabled property.
- This product fixed Firmware OROM version display in VMware ESXi environment.
- This product fixed Firmware OROM version display in Linux environment.
- This product fixed NVM Version display with double digits under NIC Configuration in HPE RBSU menu.

#### **Supported Devices and Features**

This product supports the following network adapters:

- Intel E610-IT4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE

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Intel Firmware Package For E810-2CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter

Version: 4.90 (**Recommended**)

Filename: HPE\_E810\_2CQDA2\_O\_SEC\_4p90\_PLDMoMCTP\_80020EF7.fwpkg; HPE\_E810\_2CQDA2\_O\_SEC\_4p90\_PLDMoMCTP\_80020EF7.json

#### **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,

- Intel icea Driver for Microsoft Windows Server, version 1.18.71.0 or later
- Intel ice Drivers for Linux, version 2.3.10-1 or later
- Intel icen Driver for VMware, version 2025.11.00 or later

This FW version does not support Port.Reset RDE metrics. This product will be enhance to improve the functions in the future release

#### **Fixes**

- This product fixed PXE Boot does not work when MS secured-core enabled with HPE ProLiant Gen11 AMD platform server.
- This product fixed Link Speed selection under NIC Configuration in HPE RBSU menu.

#### **Enhancements**

This product adds Automatic Link on Startup option under the NIC Configuration in HPE RBSU menu.

#### **Supported Devices and Features**

This product supports the following network adapters:

- Intel E810-2CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE

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Intel Firmware Package For E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter

Version: 4.90 (**Recommended**)

Filename: HPE\_E810\_CQDA2\_4p90\_PLDMoMCTP\_80020EF2.fwpkg; HPE\_E810\_CQDA2\_4p90\_PLDMoMCTP\_80020EF2.json

#### **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,

- o Intel icea Driver for Microsoft Windows Server, version 1.18.71.0 or later
- o Intel ice Drivers for Linux, version 2.3.10-1 or later
- o Intel icen Driver for VMware, version 2025.11.00 or later

This FW version does not support Port.Reset RDE metrics. This product will be enhance to improve the functions in the future release

#### **Fixes**

- o This product fixed PXE Boot does not work when MS secured-core enabled with HPE ProLiant Gen11 AMD platform server.
- o This product fixed Link Speed selection under NIC Configuration in HPE RBSU menu.

#### **Enhancements**

- o This product adds Automatic Link on Startup option under the NIC Configuration in HPE RBSU menu.
- o This product enhanced media type detection function on PHY on 100G adapter.

#### **Supported Devices and Features**

This product supports the following network adapters:

- o Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE

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Intel Firmware Package For E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter

Version: 4.90 (**Recommended**)

Filename: HPE\_E810\_CQDA2\_OCP\_4p90\_NCSIWPLDMoMCTP\_80020EF8.fwpkg; HPE\_E810\_CQDA2\_OCP\_4p90\_NCSIWPLDMoMCTP\_80020EF8.json

#### **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,

- o Intel icea Driver for Microsoft Windows Server, version 1.18.71.0 or later
- o Intel ice Drivers for Linux, version 2.3.10-1 or later
- o Intel icen Driver for VMware, version 2025.11.00 or later

This FW version does not support Port.Reset RDE metrics. This product will be enhance to improve the functions in the future release

#### **Fixes**

- o This product fixed PXE Boot does not work when MS secured-core enabled with HPE ProLiant Gen11 AMD platform server.
- o This product fixed Link Speed selection under NIC Configuration in HPE RBSU menu.

#### **Enhancements**

- o This product adds Automatic Link on Startup option under the NIC Configuration in HPE RBSU menu.
- o This product enhanced media type detection function on PHY on 100G adapter.

#### **Supported Devices and Features**

This product supports the following network adapters:

- o Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE

---

Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter

Version: 4.90 (B) (**Recommended**)

Filename: HPE\_E810\_XXVDA2\_SD\_4p90\_PLDMoMCTP\_80020EF6.fwpkg; HPE\_E810\_XXVDA2\_SD\_4p90\_PLDMoMCTP\_80020EF6.json

#### **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,

- o Intel icea Driver for Microsoft Windows Server, version 1.18.71.0 or later
- o Intel ice Drivers for Linux, version 2.3.10-1 or later
- o Intel icen Driver for VMware, version 2025.11.00 or later

This FW version does not support Port.Reset RDE metrics. This product will be enhance to improve the functions in the future release

#### **Fixes**

- o This product fixed PXE Boot does not work when MS secured-core enabled with HPE ProLiant Gen11 AMD platform server.

- This product fixed Link Speed selection under NIC Configuration in HPE RBSU menu.

### **Enhancements**

This product adds Automatic Link on Startup option under the NIC Configuration in HPE RBSU menu.

### **Supported Devices and Features**

This product supports the following network adapters:

- Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE

---

Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter

Version: 4.90 (**Recommended**)

Filename: HPE\_E810\_XXVDA2\_SD\_OCP\_4p90\_NCSiwPLDMoMCTP\_80020F00.fwpkg; HPE\_E810\_XXVDA2\_SD\_OCP\_4p90\_NCSiwPLDMoMCTP\_80020F00.json

### **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,

- Intel icea Driver for Microsoft Windows Server, version 1.18.71.0 or later
- Intel ice Drivers for Linux, version 2.3.10-1 or later
- Intel icen Driver for VMware, version 2025.11.00 or later

This FW version does not support Port.Reset RDE metrics. This product will be enhance to improve the functions in the future release

### **Fixes**

- This product fixed PXE Boot does not work when MS secured-core enabled with HPE ProLiant Gen11 AMD platform server.
- This product fixed Link Speed selection under NIC Configuration in HPE RBSU menu.

### **Enhancements**

This product adds Automatic Link on Startup option under the NIC Configuration in HPE RBSU menu.

### **Supported Devices and Features**

This product supports the following network adapters:

- Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE

---

Intel Firmware Package For E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter

Version: 4.90 (**Recommended**)

Filename: HPE\_E810\_XXVDA4\_FH\_4p90\_PLDMoMCTP\_80020F02.fwpkg; HPE\_E810\_XXVDA4\_FH\_4p90\_PLDMoMCTP\_80020F02.json

### **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,

- Intel icea Driver for Microsoft Windows Server, version 1.18.71.0 or later
- Intel ice Drivers for Linux, version 2.3.10-1 or later
- Intel icen Driver for VMware, version 2025.11.00 or later

This FW version does not support Port.Reset RDE metrics. This product will be enhance to improve the functions in the future release

### **Fixes**

- This product fixed PXE Boot does not work when MS secured-core enabled with HPE ProLiant Gen11 AMD platform server.
- This product fixed Link Speed selection under NIC Configuration in HPE RBSU menu.

### **Enhancements**

This product adds Automatic Link on Startup option under the NIC Configuration in HPE RBSU menu.

### **Supported Devices and Features**

This product supports the following network adapters:

- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE

---

Intel Firmware Package For E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter

Version: 4.90 (**Recommended**)

Filename: HPE\_E810\_XXV4\_OCP\_4p90\_NCSiwPLDMoMCTP\_80020EF3.fwpkg; HPE\_E810\_XXV4\_OCP\_4p90\_NCSiwPLDMoMCTP\_80020EF3.json

### **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,

- o Intel icea Driver for Microsoft Windows Server, version 1.18.71.0 or later
- o Intel ice Drivers for Linux, version 2.3.10-1 or later
- o Intel icen Driver for VMware, version 2025.11.00 or later

This FW version does not support Port.Reset RDE metrics. This product will be enhance to improve the functions in the future release

### **Fixes**

- o This product fixed PXE Boot does not work when MS secured-core enabled with HPE ProLiant Gen11 AMD platform server.
- o This product fixed Link Speed selection under NIC Configuration in HPE RBSU menu.

### **Enhancements**

This product adds Automatic Link on Startup option under the NIC Configuration in HPE RBSU menu.

### **Supported Devices and Features**

This product supports the following network adapters:

- o Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

---

Mellanox Firmware Package(FWPKG) for HPE NVIDIA Ethernet 100Gb 2-port NVMe-oF Offload Adapter for HPE

Version: 22.45.1020 **(Recommended)**

Filename: 22\_45\_1020-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 22.45.1020

### **Supported Devices and Features**

| HPE Part Number | Mellanox Ethernet Only Adapters                              | PSID          |
|-----------------|--------------------------------------------------------------|---------------|
| P46603-B21      | NVIDIA Ethernet 100Gb 2-port NVMe-oF Offload Adapter for HPE | HPE0000000062 |

---

Mellanox Firmware Package(FWPKG) for NVIDIA Ethernet 10/25Gb 2-port SFP28 NVMe-oF Crypto Adapter for HPE

Version: 26.45.1020 **(Recommended)**

Filename: 26\_45\_1020-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 26.45.1020

### **Supported Devices and Features**

| HPE Part Number | Mellanox Ethernet Only Adapters                                     | PSID          |
|-----------------|---------------------------------------------------------------------|---------------|
| P46603-B21      | NVIDIA Ethernet 10/25Gb 2-port SFP28 NVMe-oF Crypto Adapter for HPE | HPE0000000062 |

---

NVIDIA Firmware Package (FWPKG) - Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE

Version: 26.46.3048 **(Recommended)**

Filename: 26\_46\_3048-MCX631102AS-ADA\_Ax.pldm.fwpkg; 26\_46\_3048-MCX631102AS-ADA\_Ax.pldm.json

### **Important Note!**

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6lxfirmwarev26463048/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 26.46.3048:

- Configuring a small MTU led to fragmentation of packets critical for the PXE boot process. As a result, the PXE boot filters mistakenly discarded these packets, causing the PXE boot to fail.

## Enhancements

New features and changes included in version 26.46.3048:

- Added support for RSS with crypto offload enabling the NIC to parallelize packet processing across CPU cores while performing encryption/decryption in hardware. Additionally, introduced a new `l4_type_ext` parameter with values: 0 (None), 1 (TCP), 2 (UDP), 3 (ICMP).
- Added an extra validation for the `payload_len` field in incoming NC-SI messages. Previously, invalid packets might have been accepted; now, such packets are silently dropped.
- This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

## Supported Devices and Features

| HPE Part Number | NVIDIA Ethernet Only Adapters                                           | PSID          |
|-----------------|-------------------------------------------------------------------------|---------------|
| P42044-B21      | Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE | MT_0000000575 |

NVIDIA Firmware Package (FWPKG) - Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE

Version: 26.46.3048 **(Recommended)**

Filename: 26\_46\_3048-MCX631432AS-ADA\_Ax.pldm.fwpkg; 26\_46\_3048-MCX631432AS-ADA\_Ax.pldm.json

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6lxfirmwarev26463048/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 26.46.3048:

- Configuring a small MTU led to fragmentation of packets critical for the PXE boot process. As a result, the PXE boot filters mistakenly discarded these packets, causing the PXE boot to fail.

## Enhancements

New features and changes included in version 26.46.3048:

- Added support for RSS with crypto offload enabling the NIC to parallelize packet processing across CPU cores while performing encryption/decryption in hardware. Additionally, introduced a new `l4_type_ext` parameter with values: 0 (None), 1 (TCP), 2 (UDP), 3 (ICMP).
- Added an extra validation for the `payload_len` field in incoming NC-SI messages. Previously, invalid packets might have been accepted; now, such packets are silently dropped.
- This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

## Supported Devices and Features

| HPE Part Number | NVIDIA Ethernet Only Adapters                                                | PSID          |
|-----------------|------------------------------------------------------------------------------|---------------|
| P42041-B21      | Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE | MT_0000000551 |

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR/Ethernet 400Gb 1-port OSFP PCIe5 x16 MCX75310AAS-NEAT Adapter : HPE part numbers P45641-B23 and P45641-H23

Version: 28.46.3048 **(Recommended)**

Filename: 28\_46\_3048-MCX75310AAS-NEAT\_HPE2\_Ax.pldm.fwpkg; 28\_46\_3048-MCX75310AAS-NEAT\_HPE2\_Ax.pldm.json

## 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/connectx7firmwarev28463048/known+issues>

## Fixes

**The following fixes have been included in version 28.46.3048:**

- o The adapter card would drop NC-SI over MCTP commands when padding bytes were present after the NC-SI checksum.

## Enhancements

**New features and changes included in version 28.46.3048:**

- o This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

## Supported Devices and Features

| HPE Part Number | NVIDIA VPI Adapter                                                                                           | PSID          |
|-----------------|--------------------------------------------------------------------------------------------------------------|---------------|
| P45641-B23      | HPE InfiniBand NDR/Ethernet 400Gb 1-port OSFP PCIe5 x16 MCX75310AAS-NEAT Adapter (P45641-B23 and P45641-H23) | MT_0000001120 |

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR200/Ethernet 200Gb 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Adapter : HPE part numbers P45642-B22 and P45642-H22

Version: 28.46.3048 **(Recommended)**

Filename: 28\_46\_3048-MCX75310AAS-HEAT\_HPE2\_Ax.pldm.fwpkg; 28\_46\_3048-MCX75310AAS-HEAT\_HPE2\_Ax.pldm.json

## 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/connectx7firmwarev28463048/known+issues>

## Prerequisites

FWPKG will work only if the iLO5 firmware version is 2.30 or higher.

## Fixes

**The following fixes have been included in version 28.46.3048:**

- o The adapter card would drop NC-SI over MCTP commands when padding bytes were present after the NC-SI checksum.

## Enhancements

**New features and changes included in version 28.46.3048:**

- o This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

## Supported Devices and Features

| HPE Part Number | NVIDIA VPI Adapter                                                                                                 | PSID          |
|-----------------|--------------------------------------------------------------------------------------------------------------------|---------------|
| P45642-B22      | HPE InfiniBand NDR200/Ethernet 200Gb 2-port QSFP112 PCIe5 x16 MCX755106AC-HEAT Adapter (P45642-B22 and P45642-H22) | MT_0000001119 |

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR200/Ethernet 200GbE 2-port QSFP112 PCIe5 x16 MCX755106AC-HEAT Adapter : HPE part numbers P65333-B21 and P65333-H21

Version: 28.46.3048 **(Recommended)**

Filename: 28\_46\_3048-MCX755106AC-HEAT\_HPE\_Ax.pldm.fwpkg; 28\_46\_3048-MCX755106AC-HEAT\_HPE\_Ax.pldm.json

### 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/connectx7firmwarev28463048/known+issues>

### Fixes

**The following fixes have been included in version 28.46.3048:**

- o The adapter card would drop NC-SI over MCTP commands when padding bytes were present after the NC-SI checksum.

### Enhancements

**New features and changes included in version 28.46.3048:**

- o This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

### Supported Devices and Features

| HPE Part Number | NVIDIA VPI Adapter                                                                                                  | PSID          |
|-----------------|---------------------------------------------------------------------------------------------------------------------|---------------|
| P65333-B21      | HPE InfiniBand NDR200/Ethernet 200GbE 2-port QSFP112 PCIe5 x16 MCX755106AC-HEAT Adapter (P65333-B21 and P65333-H21) | MT_0000001108 |

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand XDR/Ethernet 2x400GbE 1-port OSFP PCIe6 x16 HHHL CX8 Crypto Adapter : HPE part number P79114-H21

Version: 40.46.3048 **(Critical)**

Filename: 40\_46\_3048-900-9X81E-00EX-ST0\_Ax.pldm.fwpkg; 40\_46\_3048-900-9X81E-00EX-ST0\_Ax.pldm.json

### 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/connectx8firmwarev40463048/known+issues>

### Fixes

Initial version from HPE.

**The following fixes have been included in version 40.46.3048:**

- o Fix for the adapter card dropping NC-SI over MCTP commands when padding bytes were present after the NC-SI checksum.

### Enhancements

Initial version.

### Supported Devices and Features

| HPE Part Number | NVIDIA VPI Adapter                                                                              | PSID          |
|-----------------|-------------------------------------------------------------------------------------------------|---------------|
| P79114-H21      | HPE InfiniBand XDR/Ethernet 2x400GbE 1-port OSFP PCIe6 x16 HHHL CX8 Crypto Adapter (P79114-H21) | MT_0000001167 |

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand XDR400/Ethernet 400GbE 2-port QSFP112 PCIe6 x16 HHHL CX8 Crypto Adapter : HPE part number P79115-H21

Version: 40.46.3048 **(Critical)**

Filename: 40\_46\_3048-900-9X81Q-00CN-ST0\_Ax.pldm.fwpkg; 40\_46\_3048-900-9X81Q-00CN-ST0\_Ax.pldm.json

### 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/connectx8firmwarev40463048/known+issues>

## Fixes

Initial version from HPE.

**The following fixes have been included in version 40.46.3048:**

- o Fix for the adapter card dropping NC-SI over MCTP commands when padding bytes were present after the NC-SI checksum.

## Enhancements

Initial version.

## Supported Devices and Features

| HPE Part Number | NVIDIA VPI Adapter                                                                                  | PSID          |
|-----------------|-----------------------------------------------------------------------------------------------------|---------------|
| P79115-H21      | HPE InfiniBand XDR400/Ethernet 400GbE 2-port QSFP112 PCIe6 x16 HHHL CX8 Crypto Adapter (P79115-H21) | MT_0000001222 |

NVIDIA Firmware Package (FWPKG) for Mellanox MCX623106AS-CDAT Ethernet 100Gb 2-port QSFP56 Adapter for HPE

Version: 22.46.3048 **(Recommended)**

Filename: 22\_46\_3048-MCX623106AS-CDA\_Ax.pldm.fwpkg; 22\_46\_3048-MCX623106AS-CDA\_Ax.pldm.json

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6dxfirmwarev22463048/known+issues>

## 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.

## Fixes

**The following issues have been fixed in version 22.46.3048:**

- o Configuring a small MTU led to fragmentation of packets critical for the PXE boot process. As a result, the PXE boot filters mistakenly discarded these packets, causing the PXE boot to fail.

## Enhancements

**New features and changes included in version 22.46.3048:**

- o Added support for RSS with crypto offload enabling the NIC to parallelize packet processing across CPU cores while performing encryption/decryption in hardware. Additionally, introduced a new l4\_type\_ext parameter with values: 0 (None), 1 (TCP), 2 (UDP), 3 (ICMP).
- o Added an extra validation for the payload\_len field in incoming NC-SI messages. Previously, invalid packets might have been accepted; now, such packets are silently dropped.
- o This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

## Supported Devices and Features

| HPE Part Number | NVIDIA Ethernet Only Adapters                                          | PSID          |
|-----------------|------------------------------------------------------------------------|---------------|
| P25960-B21      | Mellanox MCX623106AS-CDAT Ethernet 100Gb 2-port QSFP56 Adapter for HPE | MT_0000000437 |

## Firmware - Storage 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: 7.81 (**Recommended**)

Filename: HPE\_SR\_Gen10\_7.81\_A.fwpkg; HPE\_SR\_Gen10\_7.81\_A.json

### Important Note!

- o HPE Service Pack for ProLiant (SPP) provides a fully qualified recipe for specific firmware and drivers released within the same cycle, making it the primary recommended choice.
- o It is strongly recommended to use controller firmware version 7.81 for SR SAS/SATA controllers and firmware version 03.01.41.032 for SR tri-mode controllers, along with Windows driver version 1016.24.0.1002, Linux driver version 2.1.36-026, and VMware ESXi driver version 4862.0.104, as this combination has been fully qualified.

### Fixes

- o Fixed an issue where SEDs reverting to foreign after controller reboot due to the otherwise owned flag not being saved to the datastore.
- o Fixed an issue where firmware crash/lockup during NDSR (Non-Disruptive Software Reset) due to a NULL pointer reference when handling a failed drive during logical drive rebuild.
- o Fix 4Kn foreign SED being imported into a 512B logical drive due to incorrect failure handling, which could start a rebuild on an incompatible drive and ultimately fail.
- o Fixed an issue where multiple logical drives incorrectly showing REBUILDING simultaneously due to rebuild status not being updated properly during queued transformation and rebuild processes
- o Fixed an issue where master key change failure on Managed SED logical drives due to LU cache flush requests conflicting with the password update process.
- o Fixed an issue where physical drive Predictive Failure status not reported correctly by tools and iLO.
- o Fixed an issue where controller lockup during surface scan caused by stale internal resources when handling Unrecoverable Read Errors (UREs) in unmapped logical drive regions.
- o Fixed an issue where uncorrectable DDR ECC errors could be reported at boot due to cache being accessed before initialization.
- o Fixed an issue where the controller could lock up (0x3120C) when enabling MCP due to duplicate routing entries from flooded BMC requests.
- o Fixed an issue where SATA drives could be incorrectly reported as hot-removed during spin-up by adjusting the dampen timer to align with vendor-specified TTR values.
- o Fixed an issue where the controller could lock up (0x1E30) under high I/O workloads when configuration changes occurred simultaneously with a LUN reset.
- o Fixed an issue where RAID 0 could hang with I/O timeouts and LUN resets during Predictive Spare Rebuild.
- o Fixed an issue where the RAID controller could incorrectly report Online Firmware Activation as enabled. Firmware now checks support during PQI initialization and sets or clears the feature flags accordingly.
- o Fixed an issue where drives in some enclosures could show bay number 255 after the enclosure was powered on and hot-plugged, by adding handling for additional SCSI not ready status codes until the enclosure becomes ready.
- o Fixed an issue where Micron 6550 SED drives could fail to create a Secured Volume due to insufficient timeout during the TCG Revert process.
- o Fixed an issue where the controller Health state from PLDM PDRs could differ from the Storage.Status.HealthRollup value in RDE, by synchronizing the reporting logic.
- o Fixed an issue where SSD firmware updates could fail in dual path configurations due to PLDM errors, by sending Test Unit Ready commands to clear check conditions before SCSI passthrough operations.
- o Fixed an issue where Battery Redfish Alerts contained an incorrect OriginOfCondition pointing to a StorageController instead of the Battery resource.
- o Fixed an issue where RDE UPDATE operations on a Volume's ReadCachePolicy could incorrectly appear successful during a CBE rekey, by adjusting the cache update logic to return accurate results regardless of cache status.
- o Fixed an issue where the HotspareActivationPolicy allowable values incorrectly included OnDriveFailure for RAID 0 volumes with a dedicated spare, by adding configuration checks to ensure only valid values are shown.
- o Fixed an issue where there is a mismatch in Overall Health State and Logical Volume State during RPI, with sensors reporting Warning (Overall Health) while RDE READs ( Logical Volume State) showed OK; reporting OK during RPI is expected behavior.
- o Fixed an issue where ProtectedWriteBack could incorrectly appear as an allowable WriteCachePolicy in RDE READs even without a backup power source, by requiring the power source to be connected and fully charged before publishing the option.
- o Fixed an issue where an RDE READ on certain unsupported Drive resources could cause a controller lockup, by adding bounds checking in the firmware API.
- o Fixed an issue where deleting volumes through PLDM Type 6 could cause a controller lockup if other PLDM commands were sent simultaneously. These commands now return NOT\_READY when a long-running RDE operation is in progress.
- o Fixed an issue where disk utilities could display an invalid box number for drives after failing over to an alternative path, by ensuring only valid controller-provided information is shown.
- o Fixed an issue where an incorrect error message was shown in HII when creating a logical drive on a locked SED, by updating the error message to correctly reflect SED encryption.

### Enhancements

- o Added SSD life expectancy monitoring.
- o Added support to require privileged operations token for all RDE ACTION operations, including Drive.Reset and Storage.SetEncryptionKey, improving security for data-destructive actions.
- o Added support to provide meaningful updateInterval values for Numeric Sensor PDRs, setting 5 seconds for controller temperature and 60 seconds for drive temperature sensors.
- o Enhanced the calculation of CapacityBytes@Redfish.AllowableNumbers for Volume Capabilities. The maximum allowable value is now set to the larger of (a) the largest free space range on any existing array, or (b) the sum of unassigned drives with a common interface and media type.
- o Enhanced DriveMetrics support by updating the schema version from 1.0.0 to 1.2.0, adding reporting for ReadIOPiBytes and WriteIOPiBytes properties.
- o Added an enhancement to display drive vendor and model name as separate fields in the Disk Information menu, improving clarity and ease of drive identification.
- o Added support to securely transfer encryption keys in remote key management mode.
- o Enhanced drive writes cache status reporting in HII.

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Firmware Package - HPE Gen12 Boot Controller NS204i-u, HPE Gen11 Boot Controller NS204i-u, NS204i-d and HPE Gen10 Plus Boot Controller NS204i-p, NS204i-d

Version: 1.2.14.1022 (**Recommended**)

Filename: HPE\_NS204i\_Gen10p\_Gen11\_1.2.14.1022\_A.fwpkg; HPE\_NS204i\_Gen10p\_Gen11\_1.2.14.1022\_A.json

### Important Note!

**1.2.14.1018 is the minimum firmware requirement for AMD Turin DL365/385 and Intel Gen12 platforms. Downgrading NS204i firmware to version lower than 1018 will lead to MCTP failure.**

<https://www.hpe.com/global/swpublishing/MTX-c75706b8a59d4d8aabc4e4cc30>

**For Gen10 plus server users, the NS204i firmware has to be 1.2.14.1018 or later in order to enable PLDM firmware update functionality for the controller. Please find the smart component versions of 1.2.14.1018 in below link:**

- o Windows: <https://www.hpe.com/global/swpublishing/MTX-84a4e0bb354f48ead65cf9451>
- o Linux: <https://www.hpe.com/global/swpublishing/MTX-b6448d485ca64fd7a5d0d5f75e>
- o VMware: <https://www.hpe.com/global/swpublishing/MTX-ad49b1acb0d4455c86460c727a>

## **Prerequisites**

- o iLO 6 version 1.10 or later is required for Gen11 and Gen12 servers.
- o iLO 5 version 2.81 or later is required for Gen10/Gen10 Plus servers

## **Fixes**

- Fixed an issue that NS204i-u firmware information is not visible in UEFI when DMA remapping is enabled
- Fixed an issue that NS204i-r is intermittently undetected on DX360 Gen10 Plus after continuous reboots

## **Enhancements**

- o Introduced Self-Encrypting Drive on P81162-B21 NS204i-u 960GB NVMe SED Boot Device
- o Support new Gen 12 servers.

Firmware Package - HPE MR216i-o Gen11 Tri Mode Controller

Version: 52.32.3-6333 (**Recommended**)

Filename: HPE\_MR216i-o\_Gen11\_52.32.3-6333\_A.fwpkg; HPE\_MR216i-o\_Gen11\_52.32.3-6333\_A.json

## **Important Note!**

- o **This firmware version to be used on HPE MR216i-o Gen11 Controller.**

## **Prerequisites**

iLO6 version should be at least 1.53 is required for **chassis&Fabric support**.

## **Fixes**

- o Fix a00143124en\_us Advisory: HPE MR Gen11 Controller - MR Gen11 Controllers on HPE Gen11 Servers May Fail to Generate "WriteCacheDataLoss" in the IML
- o Fix a00148035en\_us Advisory: HPE MR Gen11 Controllers - The Bay And Box NVMe Drive Location Is Not Displayed in the One-Time Boot Menu
- o Fix an issue that Read/Write transfers over 128KB on LTO fail in Linux OS
- o Fix an issue that Backup Exec doesn't work with LTO
- o Fix an issue that controller might be dropped by the iLO in server boot up when there are 240 Logical Drives are configured
- o Fix a rare issue that server health shows critical temporally when remove drive continuously.
- o Fix an issue that unexpected PCIConfiglink page events, Task management to the virtual SES device time out messages are logged in snapdump
- o Fix an issue that Slot capable protocol is missing for empty bay
- o Fix an issue that Link Speed for LTO connected to controller shows Unknown
- o Fix an issue that Request Sense command causes task management on the drive where sanitization is in progress.
- o Fix an issue that Redfish PATCH StorageController[ControllerRates] silently sets random values when the value beyond 255 is used.
- o Fix an issue that incorrect controller error event may be logged when controller is configured as passthrough and do vm reboot
- o Fix an issue that active width, current speed are wrong in Redfish Fabric port when two backplanes connected to same storage port.
- o Fix a rare issue that NVMe drive link status may fail after reboot
- o Fix a rare issue that controller may assert when there are multiple drives removed and inserted in a short time
- o Fix an issue that sanitize percentage does not progress on SATA drives if there is SATA passthrough command running
- o Fix an issue that sanitize percentage does not progress on NVMe drives
- o Fix a rare issue that IO timeout and device reset may occur with stress test of Read/Write and Non-Read/Write commands

## **Enhancements**

- o DMTF PLDM Redfish Device Enablement enhancements
  - Redfish Volume Transformation Support
    - POST #Volume.ChangeRAIDLAYOUT: RAID Layout Change. Change in the RAID Layout is achieved by providing the target RAIDType and the list of the drives in the input JSON body.
    - POST #Volume.ChangeRAIDLAYOUT: Resize. ChangeRAIDLAYOUT can be used to resize the volume by adding new Unconfigured Good drives without changing the RAIDType. In such cases RAIDType must not be provided in the input JSON body but the full drive list must be provided accordingly.
    - PATCH Volume[CapacityBytes]: This operation is used for resizing the volume when there is unused size available in the volume. There is no scope for adding any new drives here
    - POST #Volume.CheckConsistency: This operation starts Consistency Check operation on the volume. No input is expected for this operation.
  - Redfish Metrics GET Support
    - StorageControllerMetrics: UncorrectableECCErrorCount, CorrectableECCErrorCount, CorrectableParityErrorCount, StateChangeCount
    - PortMetrics: SAS.InvalidDwordCount, SAS.LossOfDwordSynchronizationCount, SAS.RunningDisparityErrorCount, PCIeErrors.CorrectableErrorCount, PCIeErrors.FatalErrorCount, PCIeErrors.NonFatalErrorCount
    - Each counter can hold a value up to 65535. Once the counter reaches the maximum value the value is not reset.
    - Metrics are cleared when user performs Controller NVRAM clear or Redfish ResetToDefaults.ResetAll.
- o Add support for users to clear NVRAM using MRSA and storcli Factory Repurpose operation.
  - Clear NVRAM operation is not allowed if there is any configuration present on the controller or if there is any pinned cache.
  - After clearing NVRAM, controller FW performs Online Controller Reset (OCR). If for some reason OCR cannot be performed, then the user will be notified to perform a system reboot.
  - The Clear NVRAM operation is equivalent to Redfish ResetToDefaults.ResetAll operation functionally.
- o Change the backplane bay count information to the actual bay that is connected to controller. For non-hotplug configuration, controller always shows 16 bays.

Firmware Package - HPE MR216i-p Gen11 Tri Mode Controller

Version: 52.32.3-6333 (**Recommended**)

Filename: HPE\_MR216i-p\_Gen11\_52.32.3-6333\_A.fwpkg; HPE\_MR216i-p\_Gen11\_52.32.3-6333\_A.json

## **Important Note!**

- o **This firmware version to be used on HPE MR216i-p Gen11 Controller.**

## Prerequisites

iLO6 version should be at least 1.53 is required for **chassis&Fabric support**.

## Fixes

- o Fix a00143124en\_us Advisory: HPE MR Gen11 Controller - MR Gen11 Controllers on HPE Gen11 Servers May Fail to Generate "WriteCacheDataLoss" in the IML
- o Fix a00148035en\_us Advisory: HPE MR Gen11 Controllers - The Bay And Box NVMe Drive Location Is Not Displayed in the One-Time Boot Menu
- o Fix an issue that Read/Write transfers over 128KB on LTO fail in Linux OS
- o Fix an issue that Backup Exec doesn't work with LTO
- o Fix an issue that controller might be dropped by the iLO in server boot up when there are 240 Logical Drives are configured
- o Fix a rare issue that server health shows critical temporally when remove drive continuously.
- o Fix an issue that unexpected PCIconfiglink page events, Task management to the virtual SES device time out messages are logged in snapdump
- o Fix an issue that Slot capable protocol is missing for empty bay
- o Fix an issue that Link Speed for LTO connected to controller shows Unknown
- o Fix an issue that Request Sense command causes task management on the drive where sanitization is in progress.
- o Fix an issue that Redfish PATCH StorageController[ControllerRates] silently sets random values when the value beyond 255 is used.
- o Fix an issue that incorrect controller error event may be logged when controller is configured as passthrough and do vm reboot
- o Fix an issue that active width, current speed are wrong in Redfish Fabric port when two backplanes connected to same storage port.
- o Fix a rare issue that NVMe drive link status may fail after reboot
- o Fix a rare issue that controller may assert when there are multiple drives removed and inserted in a short time
- o Fix an issue that sanitize percentage does not progress on SATA drives if there is SATA passthrough command running
- o Fix an issue that sanitize percentage does not progress on NVMe drives
- o Fix a rare issue that IO timeout and device reset may occur with stress test of Read/Write and Non-Read/Write commands

## Enhancements

- o DMTF PLDM Redfish Device Enablement enhancements
  - Redfish Volume Transformation Support
    - POST #Volume.ChangeRAIDLAYOUT: RAID Layout Change. Change in the RAID Layout is achieved by providing the target RAIDType and the list of the drives in the input JSON body.
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    - PATCH Volume[CapacityBytes]: This operation is used for resizing the volume when there is unused size available in the volume. There is no scope for adding any new drives here
    - POST #Volume.CheckConsistency: This operation starts Consistency Check operation on the volume. No input is expected for this operation.
  - Redfish Metrics GET Support
    - StorageControllerMetrics: UncorrectableECCErrorCount, CorrectableECCErrorCount, CorrectableParityErrorCount, StateChangeCount
    - PortMetrics: SAS.InvalidDwordCount, SAS.LossOfDwordSynchronizationCount, SAS.RunningDisparityErrorCount, PCIeErrors.CorrectableErrorCount, PCIeErrors.FatalErrorCount, PCIeErrors.NonFatalErrorCount
    - Each counter can hold a value up to 65535. Once the counter reaches the maximum value the value is not reset.
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  - After clearing NVRAM, controller FW performs Online Controller Reset (OCR). If for some reason OCR cannot be performed, then the user will be notified to perform a system reboot.
  - The Clear NVRAM operation is equivalent to Redfish ResetToDefaults.ResetAll operation functionally.
- o Change the backplane bay count information to the actual bay that is connected to controller. For non-hotplug configuration, controller always shows 16 bays.

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Firmware Package - HPE MR408i-o Gen11 Tri Mode Controller

Version: 52.32.3-6333 (**Recommended**)

Filename: HPE\_MR408i-o\_Gen11\_52.32.3-6333\_A.fwpkg; HPE\_MR408i-o\_Gen11\_52.32.3-6333\_A.json

## Important Note!

- o **This firmware version to be used on HPE MR408i-o Gen11 Controller.**

## Prerequisites

iLO6 version should be at least 1.53 is required for **chassis&Fabric support**.

## Fixes

- o Fix a00143124en\_us Advisory: HPE MR Gen11 Controller - MR Gen11 Controllers on HPE Gen11 Servers May Fail to Generate "WriteCacheDataLoss" in the IML
- o Fix a00148035en\_us Advisory: HPE MR Gen11 Controllers - The Bay And Box NVMe Drive Location Is Not Displayed in the One-Time Boot Menu
- o Fix an issue that Read/Write transfers over 128KB on LTO fail in Linux OS
- o Fix an issue that Backup Exec doesn't work with LTO
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- o Fix an issue that Slot capable protocol is missing for empty bay
- o Fix an issue that Link Speed for LTO connected to controller shows Unknown
- o Fix an issue that Request Sense command causes task management on the drive where sanitization is in progress.
- o Fix an issue that Redfish PATCH StorageController[ControllerRates] silently sets random values when the value beyond 255 is used.
- o Fix an issue that incorrect controller error event may be logged when controller is configured as passthrough and do vm reboot
- o Fix an issue that active width, current speed are wrong in Redfish Fabric port when two backplanes connected to same storage port.
- o Fix a rare issue that NVMe drive link status may fail after reboot
- o Fix a rare issue that controller may assert when there are multiple drives removed and inserted in a short time
- o Fix an issue that sanitize percentage does not progress on SATA drives if there is SATA passthrough command running
- o Fix an issue that sanitize percentage does not progress on NVMe drives
- o Fix a rare issue that IO timeout and device reset may occur with stress test of Read/Write and Non-Read/Write commands

## Enhancements

- o DMTF PLDM Redfish Device Enablement enhancements
  - Redfish Volume Transformation Support

- POST #Volume.ChangeRAIDLAYOUT: RAID Layout Change. Change in the RAID Layout is achieved by providing the target RAIDType and the list of the drives in the input JSON body.
- POST #Volume.ChangeRAIDLAYOUT: Resize. ChangeRAIDLAYOUT can be used to resize the volume by adding new Unconfigured Good drives without changing the RAIDType. In such cases RAIDType must not be provided in the input JSON body but the full drive list must be provided accordingly.
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- POST #Volume.CheckConsistency: This operation starts Consistency Check operation on the volume. No input is expected for this operation.
- Redfish Metrics GET Support
  - StorageControllerMetrics: UncorrectableECCErrorCount, CorrectableECCErrorCount, CorrectableParityErrorCount, StateChangeCount
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  - Each counter can hold a value up to 65535. Once the counter reaches the maximum value the value is not reset.
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- Add support for users to clear NVRAM using MRSA and storcli Factory Repurpose operation.
  - Clear NVRAM operation is not allowed if there is any configuration present on the controller or if there is any pinned cache.
  - After clearing NVRAM, controller FW performs Online Controller Reset (OCR). If for some reason OCR cannot be performed, then the user will be notified to perform a system reboot.
  - The Clear NVRAM operation is equivalent to Redfish ResetToDefaults.ResetAll operation functionally.
- Change the backplane bay count information to the actual bay that is connected to controller. For non-hotplug configuration, controller always shows 16 bays.

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Firmware Package - HPE MR408i-p Gen11 Tri Mode Controller

Version: 52.32.3-6333 (**Recommended**)

Filename: HPE\_MR408i-p\_Gen11\_52.32.3-6333\_A.fwpkg; HPE\_MR408i-p\_Gen11\_52.32.3-6333\_A.json

#### **Important Note!**

- **This firmware version to be used on HPE MR408i-p Gen11 Controller.**

#### **Prerequisites**

iLO6 version should be at least 1.53 is required for **chassis&Fabric support**.

#### **Fixes**

- Fix a00143124en\_us Advisory: HPE MR Gen11 Controller - MR Gen11 Controllers on HPE Gen11 Servers May Fail to Generate "WriteCacheDataLoss" in the IML
- Fix a00148035en\_us Advisory: HPE MR Gen11 Controllers - The Bay And Box NVMe Drive Location Is Not Displayed in the One-Time Boot Menu
- Fix an issue that Read/Write transfers over 128KB on LTO fail in Linux OS
- Fix an issue that Backup Exec doesn't work with LTO
- Fix an issue that controller might be dropped by the iLO in server boot up when there are 240 Logical Drives are configured
- Fix a rare issue that server health shows critical temporally when remove drive continuously.
- Fix an issue that unexpected PCIconfiglink page events, Task management to the virtual SES device time out messages are logged in snapdump
- Fix an issue that Slot capable protocol is missing for empty bay
- Fix an issue that Link Speed for LTO connected to controller shows Unknown
- Fix an issue that Request Sense command causes task management on the drive where sanitization is in progress.
- Fix an issue that Redfish PATCH StorageController[ControllerRates] silently sets random values when the value beyond 255 is used.
- Fix an issue that incorrect controller error event may be logged when controller is configured as passthrough and do vm reboot
- Fix an issue that active width, current speed are wrong in Redfish Fabric port when two backplanes connected to same storage port.
- Fix a rare issue that NVMe drive link status may fail after reboot
- Fix a rare issue that controller may assert when there are multiple drives removed and inserted in a short time
- Fix an issue that sanitize percentage does not progress on SATA drives if there is SATA passthrough command running
- Fix an issue that sanitize percentage does not progress on NVMe drives
- Fix a rare issue that IO timeout and device reset may occur with stress test of Read/Write and Non-Read/Write commands

#### **Enhancements**

- DMTF PLDM Redfish Device Enablement enhancements
  - Redfish Volume Transformation Support
    - POST #Volume.ChangeRAIDLAYOUT: RAID Layout Change. Change in the RAID Layout is achieved by providing the target RAIDType and the list of the drives in the input JSON body.
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    - StorageControllerMetrics: UncorrectableECCErrorCount, CorrectableECCErrorCount, CorrectableParityErrorCount, StateChangeCount
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  - After clearing NVRAM, controller FW performs Online Controller Reset (OCR). If for some reason OCR cannot be performed, then the user will be notified to perform a system reboot.
  - The Clear NVRAM operation is equivalent to Redfish ResetToDefaults.ResetAll operation functionally.
- Change the backplane bay count information to the actual bay that is connected to controller. For non-hotplug configuration, controller always shows 16 bays.

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Firmware Package - HPE MR416i-o Gen11 Tri Mode Controller

Version: 52.32.3-6333 (**Recommended**)

Filename: HPE\_MR416i-o\_Gen11\_52.32.3-6333\_A.fwpkg; HPE\_MR416i-o\_Gen11\_52.32.3-6333\_A.json

#### **Important Note!**

- **This firmware version to be used on HPE MR416i-o Gen11 Controller.**

## **Prerequisites**

iLO6 version should be at least 1.53 is required for **chassis&Fabric support**.

## **Fixes**

- o Fix a00143124en\_us Advisory: HPE MR Gen11 Controller - MR Gen11 Controllers on HPE Gen11 Servers May Fail to Generate "WriteCacheDataLoss" in the IML
- o Fix a00148035en\_us Advisory: HPE MR Gen11 Controllers - The Bay And Box NVMe Drive Location Is Not Displayed in the One-Time Boot Menu
- o Fix an issue that Read/Write transfers over 128KB on LTO fail in Linux OS
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- o Fix an issue that controller might be dropped by the iLO in server boot up when there are 240 Logical Drives are configured
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- o Fix an issue that Slot capable protocol is missing for empty bay
- o Fix an issue that Link Speed for LTO connected to controller shows Unknown
- o Fix an issue that Request Sense command causes task management on the drive where sanitization is in progress.
- o Fix an issue that Redfish PATCH StorageController[ControllerRates] silently sets random values when the value beyond 255 is used.
- o Fix an issue that incorrect controller error event may be logged when controller is configured as passthrough and do vm reboot
- o Fix an issue that active width, current speed are wrong in Redfish Fabric port when two backplanes connected to same storage port.
- o Fix a rare issue that NVMe drive link status may fail after reboot
- o Fix a rare issue that controller may assert when there are multiple drives removed and inserted in a short time
- o Fix an issue that sanitize percentage does not progress on SATA drives if there is SATA passthrough command running
- o Fix an issue that sanitize percentage does not progress on NVMe drives
- o Fix a rare issue that IO timeout and device reset may occur with stress test of Read/Write and Non-Read/Write commands

## **Enhancements**

- o DMTF PLDM Redfish Device Enablement enhancements
  - Redfish Volume Transformation Support
    - POST #Volume.ChangeRAIDLayout: RAID Layout Change. Change in the RAID Layout is achieved by providing the target RAIDType and the list of the drives in the input JSON body.
    - POST #Volume.ChangeRAIDLayout: Resize. ChangeRAIDLayout can be used to resize the volume by adding new Unconfigured Good drives without changing the RAIDType. In such cases RAIDType must not be provided in the input JSON body but the full drive list must be provided accordingly.
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    - POST #Volume.CheckConsistency: This operation starts Consistency Check operation on the volume. No input is expected for this operation.
  - Redfish Metrics GET Support
    - StorageControllerMetrics: UncorrectableECCErrorCount, CorrectableECCErrorCount, CorrectableParityErrorCount, StateChangeCount
    - PortMetrics: SAS.InvalidDwordCount, SAS.LossOfDwordSynchronizationCount, SAS.RunningDisparityErrorCount, PCIeErrors.CorrectableErrorCount, PCIeErrors.FatalErrorCount, PCIeErrors.NonFatalErrorCount
    - Each counter can hold a value up to 65535. Once the counter reaches the maximum value the value is not reset.
    - Metrics are cleared when user performs Controller NVRAM clear or Redfish ResetToDefaults.ResetAll.
- o Add support for users to clear NVRAM using MRSA and storcli Factory Repurpose operation.
  - Clear NVRAM operation is not allowed if there is any configuration present on the controller or if there is any pinned cache.
  - After clearing NVRAM, controller FW performs Online Controller Reset (OCR). If for some reason OCR cannot be performed, then the user will be notified to perform a system reboot.
  - The Clear NVRAM operation is equivalent to Redfish ResetToDefaults.ResetAll operation functionally.
- o Change the backplane bay count information to the actual bay that is connected to controller. For non-hotplug configuration, controller always shows 16 bays.

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Firmware Package - HPE MR416i-p Gen11 Tri Mode Controller

Version: 52.32.3-6333 (**Recommended**)

Filename: HPE\_MR416i-p\_Gen11\_52.32.3-6333\_A.fwpkg; HPE\_MR416i-p\_Gen11\_52.32.3-6333\_A.json

## **Important Note**

- o **This firmware version to be used on HPE MR416i-p Gen11 Controller.**

## **Prerequisites**

iLO6 version should be at least 1.53 is required for **chassis&Fabric support**.

## **Fixes**

- o Fix a00143124en\_us Advisory: HPE MR Gen11 Controller - MR Gen11 Controllers on HPE Gen11 Servers May Fail to Generate "WriteCacheDataLoss" in the IML
- o Fix a00148035en\_us Advisory: HPE MR Gen11 Controllers - The Bay And Box NVMe Drive Location Is Not Displayed in the One-Time Boot Menu
- o Fix an issue that Read/Write transfers over 128KB on LTO fail in Linux OS
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- o Fix an issue that unexpected PCIConglink page events, Task management to the virtual SES device time out messages are logged in snapdump
- o Fix an issue that Slot capable protocol is missing for empty bay
- o Fix an issue that Link Speed for LTO connected to controller shows Unknown
- o Fix an issue that Request Sense command causes task management on the drive where sanitization is in progress.
- o Fix an issue that Redfish PATCH StorageController[ControllerRates] silently sets random values when the value beyond 255 is used.
- o Fix an issue that incorrect controller error event may be logged when controller is configured as passthrough and do vm reboot
- o Fix an issue that active width, current speed are wrong in Redfish Fabric port when two backplanes connected to same storage port.
- o Fix a rare issue that NVMe drive link status may fail after reboot
- o Fix a rare issue that controller may assert when there are multiple drives removed and inserted in a short time
- o Fix an issue that sanitize percentage does not progress on SATA drives if there is SATA passthrough command running
- o Fix an issue that sanitize percentage does not progress on NVMe drives
- o Fix a rare issue that IO timeout and device reset may occur with stress test of Read/Write and Non-Read/Write commands

## **Enhancements**

- o DMTF PLDM Redfish Device Enablement enhancements
  - Redfish Volume Transformation Support

- POST #Volume.ChangeRAIDLAYOUT: RAID Layout Change. Change in the RAID Layout is achieved by providing the target RAIDType and the list of the drives in the input JSON body.
- POST #Volume.ChangeRAIDLAYOUT: Resize. ChangeRAIDLAYOUT can be used to resize the volume by adding new Unconfigured Good drives without changing the RAIDType. In such cases RAIDType must not be provided in the input JSON body but the full drive list must be provided accordingly.
- PATCH Volume[CapacityBytes]: This operation is used for resizing the volume when there is unused size available in the volume. There is no scope for adding any new drives here
- POST #Volume.CheckConsistency: This operation starts Consistency Check operation on the volume. No input is expected for this operation.
- Redfish Metrics GET Support
  - StorageControllerMetrics: UncorrectableECCErrorCount, CorrectableECCErrorCount, CorrectableParityErrorCount, StateChangeCount
  - PortMetrics: SAS.InvalidDwordCount, SAS.LossOfDwordSynchronizationCount, SAS.RunningDisparityErrorCount, PCIeErrors.CorrectableErrorCount, PCIeErrors.FatalErrorCount, PCIeErrors.NonFatalErrorCount
  - Each counter can hold a value up to 65535. Once the counter reaches the maximum value the value is not reset.
  - Metrics are cleared when user performs Controller NVRAM clear or Redfish ResetToDefaults.ResetAll.
- Add support for users to clear NVRAM using MRSA and storcli Factory Repurpose operation.
  - Clear NVRAM operation is not allowed if there is any configuration present on the controller or if there is any pinned cache.
  - After clearing NVRAM, controller FW performs Online Controller Reset (OCR). If for some reason OCR cannot be performed, then the user will be notified to perform a system reboot.
  - The Clear NVRAM operation is equivalent to Redfish ResetToDefaults.ResetAll operation functionally.
- Change the backplane bay count information to the actual bay that is connected to controller. For non-hotplug configuration, controller always shows 16 bays.

## Firmware - Storage Fibre Channel

[Top](#)

HPE Firmware Flash for Emulex 32Gb and 64Gb Fibre Channel Host Bus Adapters

Version: 14.4.731.5 (**Recommended**)

Filename: PP14.4.731.5\_header.pldm.fwpkg

### Important Note!

This component is supported only on Gen12 ProLiant and Gen11 AMD servers.

### Release notes:

[Broadcom Release notes](#)

This Firmware package contains following firmware versions:

| Adapter                                                   | Speed | Universal Boot Image | Firmware   | UEFI       | Boot Bios  |
|-----------------------------------------------------------|-------|----------------------|------------|------------|------------|
| HPE SN1620E 32Gb Dual Port Fibre Channel Host Bus Adapter | 32Gb  | 14.4.731.5           | 14.4.731.5 | 14.4.716.0 | 14.4.718.0 |
| HPE SN1720E 64Gb Dual Port Fibre Channel Host Bus Adapter | 64Gb  | 14.4.731.5           | 14.4.731.5 | 14.4.716.0 | 14.4.718.0 |

### Enhancements

This Firmware package contains following firmware versions:

| Adapter                                                   | Speed | Universal Boot Image | Firmware   | UEFI       | Boot Bios  |
|-----------------------------------------------------------|-------|----------------------|------------|------------|------------|
| HPE SN1620E 32Gb Dual Port Fibre Channel Host Bus Adapter | 32Gb  | 14.4.731.5           | 14.4.731.5 | 14.4.716.0 | 14.4.718.0 |
| HPE SN1720E 64Gb Dual Port Fibre Channel Host Bus Adapter | 64Gb  | 14.4.731.5           | 14.4.731.5 | 14.4.716.0 | 14.4.718.0 |

### Supported Devices and Features

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

#### 32Gb FC Adapter:

- HPE SN1620E 32Gb Dual port Fibre Channel Host Bus Adapter

#### 64Gb FC Adapter:

- HPE SN1720E 64Gb Dual port Fibre Channel Host Bus Adapter

HPE Firmware Flash for QLogic 32Gb and 64Gb Fibre Channel Host Bus Adapters

Version: 02.11.09 (**Recommended**)

Filename: mh021109.upd\_header.pldm.fwpkg

### Important Note!

Release Notes:

[HPE QLogic Adapters Release Notes](#)

This Firmware package contains following firmware versions:

| Adapter                                                     | Speed | MBI      | Firmware | UEFI | Boot Bios |
|-------------------------------------------------------------|-------|----------|----------|------|-----------|
| HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter   | 32Gb  | 02.11.09 | 09.15.15 | 7.39 | 0.0       |
| HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter | 32Gb  | 02.11.09 | 09.15.15 | 7.39 | 0.0       |
| HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter   | 64Gb  | 02.11.09 | 09.15.15 | 7.39 | 0.0       |
| HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter | 64Gb  | 02.11.09 | 09.15.15 | 7.39 | 0.0       |

### Enhancements

This Firmware package contains following firmware versions:

| Adapter                                                   | Speed | MBI      | Firmware | UEFI | Boot Bios |
|-----------------------------------------------------------|-------|----------|----------|------|-----------|
| HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter | 32Gb  | 02.11.06 | 09.15.11 | 7.39 | 0.0       |

|                                                             |      |          |          |      |     |
|-------------------------------------------------------------|------|----------|----------|------|-----|
| HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter | 32Gb | 02.11.06 | 09.15.11 | 7.39 | 0.0 |
| HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter   | 64Gb | 02.11.06 | 09.15.11 | 7.39 | 0.0 |
| HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter | 64Gb | 02.11.06 | 09.15.11 | 7.39 | 0.0 |

**Supported Devices and Features**

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

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

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

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

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

**Software - Storage Controller** [Top](#)

HPE MegaRAID Storage Administrator StorCLI for VMware9.0 (For Gen10P and Gen11 Controllers)  
Version: 2025.08.01 **(Recommended)**  
Filename: cp067757.compsig; cp067757.zip

**Important Note!**

- o Actual ESXi Version is 007.3212.0000.0000

**Enhancements**

- o Add support for users to clear NVRAM using Factory Repurpose operation
  - Command: storcli /cx set factory repurpose

**Software - Storage Fibre Channel** [Top](#)

HPE QLogic Fibre Channel driver component for VMware vSphere 9.0  
Version: 2025.05.01 **(Recommended)**  
Filename: cp066388.compsig; cp066388.zip

**Important Note!**

This component is supported only on Gen12 ProLiant servers.

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 vibsddepot.hpe.com webpages, plus an HPE specific CPXXXX.xml file.  
This driver is only supported on VMware ESXi 9.0.

**Prerequisites**

Please consult SPOCK for a list of supported configurations available at the following link:  
<http://www.hpe.com/storage/spock/>

**Enhancements**

Driver version 5.5.85.0  
This driver is only supported on VMware ESXi 9.0

**Supported Devices and Features**

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

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

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

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

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

**Software - System Management** [Top](#)

HPE Agentless Management Bundle for ESXi for Gen11 and Gen12 Servers  
Version: 802.12.3.0 **(Recommended)**  
Filename: amsdvComponent\_802.12.3.0.8-1-signed\_component.zip

**Fixes**

See the [AMS Release Notes](#) for information about the issues resolved in this release.

### **Enhancements**

See the [AMS Release Notes](#) for information about the issues resolved in this release.

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HPE Agentless Management Bundle Smart Component on ESXi for Gen11 and Gen12 Servers  
Version: 2025.11.01 **(Recommended)**  
Filename: cp069191.compsig; cp069191.zip

### **Prerequisites**

#### **For HPE servers with iLO 7:**

Ensure that the iLO Virtual NIC(VNIC) feature is enabled. Please refer to the HPE iLO User Guide for VNIC configuration procedure

### **Fixes**

See the [AMS Release Notes](#) for information about the issues resolved in this release.

### **Enhancements**

See the [AMS Release Notes](#) for information about the issues resolved in this release.

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