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 2025.09.01.00 Release Notes for VMware ESXi 8.0

BIOS - System ROM Top

ROM Flash Firmware Package - HPE ProLiant Compute DL320/DL340 Gen12 (U71) Servers
Version: 1.46_08-08-2025 **(Recommended)**
Filename: U71_1.46_08_08_2025.fwpkg; U71_1.46_08_08_2025.json

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel GNR MR2.5 updates. (U72) This version of the System ROM contains updates aligned with the Intel VROC v. 9.2 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 DL320/DL340 Gen12 System ROM - U71

Release Version:

1.46_08-08-2025

Last Recommended or Critical Revision:

1.46_08-08-2025

Previous Revision:

1.44_07-11-2025

Firmware Dependencies:

None

Enhancements/New Features:

Added an new "Mission Critical Mode" option under "System Configuration > BIOS/Platform Configuration (RBSU)> System Options>Server Availability" options. This setting has the following Redfish properties for U68: /redfish/v1/systems/1/bios/settings/MissionCriticalMode.

Removed "Energy Performance Preference" option from "System Configuration > BIOS/Platform Configuration (RBSU)> Power and Performance" options.

Removed "Intel DMI Link Frequency" option from "System Configuration > BIOS/Platform Configuration (RBSU) > Power and Performance" Options.

Problems Fixed:

Addressed an issue where the system Redfish URIs for BIOS Registry Attribute would include wrong names and strings.

Addressed an issue where the system RBSU might list an "unknown" instance under System Utilities --> System Information --> Firmware Information when E610 adapter is installed.

Addressed an issue where the System ROM/RBSU setting change might not take effect when the System ROM is being updated.

Addressed an issue where the system might list wrong port number with E610 adapter under System Utilities --> System Configuration.

Addressed an issue where the system might be turned off before booting into RedHat Linux when TPM is hidden.

Addressed an issue where the system might have unbalanced NUMA node configuration when specific core number is configured and sub-NUMA is enabled.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel GNR MR2.5 updates. (U72) This version of the System ROM contains updates aligned with the Intel VROC v. 9.2 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 the system Redfish URIs for BIOS Registry Attribute would include wrong names and strings.

Addressed an issue where the system RBSU might list an "unknown" instance under System Utilities --> System Information --> Firmware Information when E610 adapter is installed.

Addressed an issue where the System ROM/RBSU setting change might not take effect when the System ROM is being updated.

Addressed an issue where the system might list wrong port number with E610 adapter under System Utilities --> System Configuration.

Addressed an issue where the system might be turned off before booting into RedHat Linux when TPM is hidden.

Addressed an issue where the system might have unbalanced NUMA node configuration when specific core number is configured and sub-NUMA is enabled.

Known Issues:

None

Enhancements

Added an new "Mission Critical Mode" option under "System Configuration > BIOS/Platform Configuration (RBSU)> System Options>Server Availability" options. This setting has the following Redfish properties for U68: /redfish/v1/systems/1/bios/settings/MissionCriticalMode.

Removed "Energy Performance Preference" option from "System Configuration > BIOS/Platform Configuration (RBSU)> Power and Performance" options.

Removed "Intel DMI Link Frequency" option from "System Configuration > BIOS/Platform Configuration (RBSU) > Power and Performance" Options.

ROM Flash Firmware Package - System ROM for HPE ProLiant Compute DL380a/DL580 Gen12 (U72)
Version: 1.46_08-08-2025 **(Recommended)**
Filename: U72_1.46_08_08_2025.fwpkg; U72_1.46_08_08_2025.json

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel GNR MR2.5 updates. (U72) This version of the System ROM contains updates aligned with the Intel VROC v. 9.2 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 DL380a/DL580 Gen12 System ROM - U72

Release Version:

1.46_08-08-2025

Last Recommended or Critical Revision:

1.46_08-08-2025

Previous Revision:

1.43_07-09-2025

Firmware Dependencies:

None

Enhancements/New Features:

Removed unsupported option "Intel DMI Link Frequency" from "System Configuration > BIOS/Platform Configuration (RBSU) > Power and Performance Options".

Added "CPU C1 Auto Demotion" and "CPU C1 Auto UnDemotion" options in "System Configuration > BIOS/Platform Configuration (RBSU) > Power and Performance Options".

Added "Pre-boot DMA protection" option in "System Configuration > BIOS/Platform Configuration (RBSU) > Virtualization Options".

Added an new "Mission Critical Mode" option under "System Configuration > BIOS/Platform Configuration (RBSU)> System Options>Server Availability" options. This setting has the following Redfish properties for U68: /redfish/v1/systems/1/bios/settings/MissionCriticalMode.

Removed "Energy Performance Preference" option from "System Configuration > BIOS/Platform Configuration (RBSU)> Power and Performance" options.

Removed "Intel DMI Link Frequency" option from "System Configuration > BIOS/Platform Configuration (RBSU) > Power and Performance" Options.

Problems Fixed:

Addressed an issue where the mapping between Ethernet Adapter Port and its MAC address might not be correct.

Addressed an issue where the setting in Intel Speed Select Technology - Performance Profile of RBSU menu might not return to default setting once applied invalid settings.

Addressed an issue where system time in operating systems might be delayed when the system is under stressful conditions.

Addressed an issue where the system power cycle action might be incorrect when triggered through IPMI timeout.

Addressed an issue where the system might encounter UMCE during power-on when a USB mouse is connected.

Addressed an issue where the system might halt during POST when 8x NVIDIA RTX A1000 GPUs were installed.

Addressed an issue where the number of Boot Retry Count setting of each of network boot device might not take effect.

Addressed an issue where certain Intel CPU property options in system RBSU might be changed to unexpected values.

Addressed an issue where the "Negotiated Link Width" value of OCP adapter in system RBSU might be incorrect.

Addressed an issue where the system might generate the"Failed to set power regulator settings" event when changing the setting to OS control mode.

Addressed an issue where the system Redfish URIs for BIOS Registry Attribute would include wrong names and strings.

Addressed an issue where the system RBSU might list an "unknown" instance under System Utilities --> System Information --> Firmware Information when E610 adapter is installed.

Addressed an issue where the System ROM/RBSU setting change might not take effect when the System ROM is being updated.

Addressed an issue where the system might list wrong port number with E610 adapter under System Utilities --> System Configuration.

Addressed an issue where the system might be turned off before booting into RedHat Linux when TPM is hidden.

Addressed an issue where the system might have unbalanced NUMA node configuration when specific core number is configured and sub-NUMA is enabled.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel GNR MR2.5 updates. (U72) This version of the System ROM contains updates aligned with the Intel VROC v. 9.2 updates.

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

Firmware Dependencies:

None

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Addressed an issue where the mapping between Ethernet Adapter Port and its MAC address might not be correct.

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Addressed an issue where the System ROM/RBSU setting change might not take effect when the System ROM is being updated.

Addressed an issue where the system might list wrong port number with E610 adapter under System Utilities --> System Configuration.

Addressed an issue where the system might be turned off before booting into RedHat Linux when TPM is hidden.

Addressed an issue where the system might have unbalanced NUMA node configuration when specific core number is configured and sub-NUMA is enabled.

Known Issues:

None

Enhancements

Removed unsupported option "Intel DMI Link Frequency" from "System Configuration > BIOS/Platform Configuration (RBSU) > Power and Performance Options".

Added "CPU C1 Auto Demotion" and "CPU C1 Auto UnDemotion" options in "System Configuration > BIOS/Platform Configuration (RBSU) > Power and Performance Options".

Added "Pre-boot DMA protection" option in "System Configuration > BIOS/Platform Configuration (RBSU) > Virtualization Options".

Added an new "Mission Critical Mode" option under "System Configuration > BIOS/Platform Configuration (RBSU)> System Options>Server Availability" options. This setting has the following Redfish properties for U68: /redfish/v1/systems/1/bios/settings/MissionCriticalMode.

Removed "Energy Performance Preference" option from "System Configuration > BIOS/Platform Configuration (RBSU)> Power and Performance" options.

Removed "Intel DMI Link Frequency" option from "System Configuration > BIOS/Platform Configuration (RBSU) > Power and Performance" Options.

Driver - Network Top

HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0
Version: 2025.05.00 **(Recommended)**
Filename: cp066625.compsig; cp066625.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,* 233.1.135007 or later, for use with this driver.

Fixes

- This product fixes the issue where ESXi Datastore not seen when NPAR is enabled.
- This product fixes the issue where PSOD is seen when enable NPAR using 2 NICs.

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

HPE Intel ixgben Driver for VMware vSphere 8.0
Version: 2025.07.00 **(Recommended)**
Filename: cp066607.compsig; cp066607.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 3.27.0 or later, for use with this driver.
- 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

Fixes

- Known issue: Firmware OROM version displays as "0.0.0" via "ethtool -i".
- Known issue: Firmware OROM version displays incorrectly via "esxcli network nic get -n interface".

Enhancements

This product now adds support for E610 device.

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

Intel icen Driver for VMware vSphere 8.0
Version: 2025.05.00 **(Recommended)**
Filename: cp064886.compsig; cp064886.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 4.71 or later, for use with these drivers.

Fixes

This product fixes to align DDP with the new FW version and NVM 4.7.

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

Driver - Storage Controller [Top]

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 8.0
Version: 2025.09.01 **(Recommended)**
Filename: cp067936.compsig; cp067936.zip

Important Note!

- Actual Version is 7.732.04.00

Fixes

- 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

HPE ProLiant Gen10 Smart Array and Gen10 Plus and Gen11 Smart RAID Controller Driver for VMware vSphere 8.0 (Driver Component).
Version: 2025.10.01 **(Recommended)**
Filename: cp067564.compsig; cp067564.zip

Important Note!

- Actual ESXi8.0 driver version is 80.4862.0.104
- 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.
- 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

- Fixed PSOD indicates a divide-by-zero happened.
- Fixed an issue where the driver's controller structure field was too small for the full ASCII firmware version.
- Fixed an issue where a message from a periodic check on the controller heartbeat appeared as a system error instead of an informational message.
- Fixed an issue where firmware versioning information was incorrect or blank on some of the controllers.
- 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.

Firmware - Network [Top]

Broadcom Firmware Package for BCM5741x adapters
Version: 233.1.135.7 **(Recommended)**
Filename: bcm233.1.135.7.pup.fwpkg; bcm233.1.135.7.pup.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 233.0.148.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-233.0.152. or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.05.00 or later

Fixes

- This product fixes an issue where the AssignablePhysicalNetworkPorts hyperlink under NetworkDeviceFunctions was not expanded correctly with Redfish expand queries.
- This product fixes an issue where VLAN-tagged packets were looped back or misrouted due to VEB behavior, causing TCP retransmissions and link instability in LACP configurations.
- This product fixes an issue where the adapter did not correctly report all supported link speeds (1G/10G/25G) via ethtool.
- This product fixes an issue where Broadcom NXE NICs could overheat and become unrecognized when MCTP was disabled.

Supported Devices and Features

This product supports the following network adapters:

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

Broadcom Firmware Package for BCM5750x adapters
Version: 233.1.135.7 **(Recommended)**
Filename: bcm233.1.135.7_Thor.pup.fwpkg; bcm233.1.135.7_Thor.pup.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 233.0.148.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-233.0.152.2 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.05.00 or later

Fixes

- This product fixes an issue where the AssignablePhysicalNetworkPorts hyperlink under NetworkDeviceFunctions was not expanded correctly with Redfish expand queries.
- This product fixes an issue where VLAN-tagged packets were looped back or misrouted due to VEB behavior, causing TCP retransmissions and link instability in LACP configurations.
- This product fixes an issue where the adapter did not correctly report all supported link speeds (1G/10G/25G) via ethtool.

Supported Devices and Features

This product supports the following network adapters:

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

Broadcom Firmware Package for BCM57608 100GbE 2p Adapter
Version: 233.1.135.7 **(Recommended)**
Filename: BCM233.1.135.7_BCM957608-P2100HQF00.fwpkg; BCM233.1.135.7_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 233.0.148.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-233.0.152.2 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.05.00 or later

Fixes

- This product fixes an issue where firmware updates failed when using the UEFI-FMP update method.
- This product fixes an issue where the AssignablePhysicalNetworkPorts hyperlink under NetworkDeviceFunctions was not expanded correctly with Redfish expand queries.
- This product fixes an issue where VLAN-tagged packets were looped back or misrouted due to VEB behavior, causing TCP retransmissions and link instability in LACP configurations.
- This product fixes an issue where the adapter did not correctly report all supported link speeds (1G/10G/25G) via ethtool.

Supported Devices and Features

This product supports the following network adapters:

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

Broadcom Firmware Package for BCM57608 100GbE 2p OCP3 Adapter
Version: 233.1.135.7 **(Recommended)**
Filename: BCM233.1.135.7_BCM957608-N2100HQI00.fwpkg; BCM233.1.135.7_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 233.0.148.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-233.0.152. or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.05.00 or later

Fixes

- This product fixes an issue where firmware updates failed when using the UEFI-FMP update method.
- This product fixes an issue where the AssignablePhysicalNetworkPorts hyperlink under NetworkDeviceFunctions was not expanded correctly with Redfish expand queries.
- This product fixes an issue where VLAN-tagged packets were looped back or misrouted due to VEB behavior, causing TCP retransmissions and link instability in LACP configurations.
- This product fixes an issue where the adapter did not correctly report all supported link speeds (1G/10G/25G) via ethtool.

Supported Devices and Features

This product supports the following network adapters:

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

Broadcom NX1 Firmware Package for BCM5719 adapter
Version: 20.33.41 **(Recommended)**
Filename: BCM5719A1907HC-4x1G-14E4-1657-14E4-1591.fwpkg; BCM5719A1907HC-4x1G-14E4-1657-14E4-1591.json

Important Note!

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

Fixes

This product fixes where MBA configuration reset to defaults after updating firmware.

Supported Devices and Features

This product supports the following network adapter:

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

Broadcom NX1 Firmware Package for BCM5719 OCP3 adapter
Version: 20.33.41 **(Recommended)**
Filename: BCM5719N1905HC-4x1G-14E4-1657-14E4-1590.fwpkg; BCM5719N1905HC-4x1G-14E4-1657-14E4-1590.json

Important Note!

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

Fixes

This product fixes where MBA configuration reset to defaults after updating firmware.

Supported Devices and Features

This product supports the following network adapter:

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

Intel Firmware Package For E610-IT4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter
Version: 1.22 **(Recommended)**
Filename: HPE_E610_IT4_OCP_1p22_8000E73B.fwpkg; HPE_E610_IT4_OCP_1p22_8000E73B.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 4.1.254.0 or later
- Intel ixgbe Drivers for Linux, version 6.1.5-1 or later
- Intel ixgben Driver for VMware, version 2025.07.00 or later

Enhancements

Initial version.

Supported Devices and Features

This product supports the following network adapters:

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

Intel Firmware Package For E810-2CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter
Version: 4.80 **(Recommended)**
Filename: HPE_E810_2CQDA2_O_SEC_4p80_PLDMoMCTP_80020542.fwpkg; HPE_E810_2CQDA2_O_SEC_4p80_PLDMoMCTP_80020542.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 1.17.72.0 or later
- Intel ice Drivers for Linux, version 1.17.8-1 or later
- Intel icen Driver for VMware, version 2025.05.00 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 fixes an issue where the Port Reset attributes are missing under RDE port Schema.
- This product fixes an issue where the link failed with the LCP-1250RJ3SR-KH transceiver.
- This product fixes an issue where the FW PLDM upgrade may failed with CVL4.71 when MCTP traffic loading is heavy.
- This product fixes an issue where the BSOD observed in Windows OS with OOB driver when transmit balancing is enabled in NIC HII menu.

Supported Devices and Features

This product supports the following network adapters:

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

Intel Firmware Package For E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter
Version: 4.80 **(Recommended)**
Filename: HPE_E810_CQDA2_4p80_PLDMoMCTP_80020543.fwpkg; HPE_E810_CQDA2_4p80_PLDMoMCTP_80020543.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 1.17.72.0 or later
- Intel ice Drivers for Linux, version 1.17.8-1 or later
- Intel icen Driver for VMware, version 2025.05.00 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 fixes an issue where the Port Reset attributes are missing under RDE port Schema.
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- This product fixes an issue where the BSOD observed in Windows OS with OOB driver when transmit balancing is enabled in NIC HII menu.

Supported Devices and Features

This product supports the following network adapters:

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

Intel Firmware Package For E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter
Version: 4.80 **(Recommended)**
Filename: HPE_E810_CQDA2_OCP_4p80_NCSIwPLDMoMCTP_8002053D.fwpkg; HPE_E810_CQDA2_OCP_4p80_NCSIwPLDMoMCTP_8002053D.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 1.17.72.0 or later
- Intel ice Drivers for Linux, version 1.17.8-1 or later
- Intel icen Driver for VMware, version 2025.05.00 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 fixes an issue where the Port Reset attributes are missing under RDE port Schema.
- This product fixes an issue where the link failed with the LCP-1250RJ3SR-KH transceiver.
- This product fixes an issue where the FW PLDM upgrade may failed with CVL4.71 when MCTP traffic loading is heavy.
- This product fixes an issue where the BSOD observed in Windows OS with OOB driver when transmit balancing is enabled in NIC HII menu.

Supported Devices and Features

This product supports the following network adapters:

- 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: 4.80 **(Recommended)**
Filename: HPE_E810_XXVDA2_SD_4p80_PLDMoMCTP_8002053C.fwpkg; HPE_E810_XXVDA2_SD_4p80_PLDMoMCTP_8002053C.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 1.17.72.0 or later
- Intel ice Drivers for Linux, version 1.17.8-1 or later
- Intel icen Driver for VMware, version 2025.05.00 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 fixes an issue where the Port Reset attributes are missing under RDE port Schema.
- This product fixes an issue where the link failed with the LCP-1250RJ3SR-KH transceiver.
- This product fixes an issue where the FW PLDM upgrade may failed with CVL4.71 when MCTP traffic loading is heavy.
- This product fixes an issue where the BSOD observed in Windows OS with OOB driver when transmit balancing is enabled in NIC HII 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: 4.80 **(Recommended)**
Filename: HPE_E810_XXVDA2_SD_OCP_4p80_NCSIwPLDMoMCTP_80020544.fwpkg; HPE_E810_XXVDA2_SD_OCP_4p80_NCSIwPLDMoMCTP_80020544.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 1.17.72.0 or later
- Intel ice Drivers for Linux, version 1.17.8-1 or later
- Intel icen Driver for VMware, version 2025.05.00 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 fixes an issue where the Port Reset attributes are missing under RDE port Schema.
- This product fixes an issue where the link failed with the LCP-1250RJ3SR-KH transceiver.
- This product fixes an issue where the FW PLDM upgrade may failed with CVL4.71 when MCTP traffic loading is heavy.
- This product fixes an issue where the BSOD observed in Windows OS with OOB driver when transmit balancing is enabled in NIC HII 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: 4.80 **(Recommended)**
Filename: HPE_E810_XXVDA4_FH_4p80_PLDMoMCTP_80020540.fwpkg; HPE_E810_XXVDA4_FH_4p80_PLDMoMCTP_80020540.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 1.17.72.0 or later
- Intel ice Drivers for Linux, version 1.17.8-1 or later
- Intel icen Driver for VMware, version 2025.05.00 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 fixes an issue where the Port Reset attributes are missing under RDE port Schema.
- This product fixes an issue where the link failed with the LCP-1250RJ3SR-KH transceiver.
- This product fixes an issue where the FW PLDM upgrade may failed with CVL4.71 when MCTP traffic loading is heavy.
- This product fixes an issue where the BSOD observed in Windows OS with OOB driver when transmit balancing is enabled in NIC HII 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: 4.80 **(Recommended)**
Filename: HPE_E810_XXV4_OCP_4p80_NCSIwPLDMoMCTP_8002053E.fwpkg; HPE_E810_XXV4_OCP_4p80_NCSIwPLDMoMCTP_8002053E.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 1.17.72.0 or later
- Intel ice Drivers for Linux, version 1.17.8-1 or later
- Intel icen Driver for VMware, version 2025.05.00 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 fixes an issue where the Port Reset attributes are missing under RDE port Schema.
- This product fixes an issue where the link failed with the LCP-1250RJ3SR-KH transceiver.
- This product fixes an issue where the FW PLDM upgrade may failed with CVL4.71 when MCTP traffic loading is heavy.
- This product fixes an issue where the BSOD observed in Windows OS with OOB driver when transmit balancing is enabled in NIC HII menu.

Supported Devices and Features

This product supports the following network adapters:

- 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: 26.45.1020 **(Recommended)**
Filename: 26_45_1020-MCX631102AS-ADA_Ax.pldm.fwpkg; 26_45_1020-MCX631102AS-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/connectx6lxfirmwarev26451020/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 26.45.1020:

- Configuring PHY_RATE_MASK for 10G in NV settings incorrectly disabled 10G capabilities.
- RTT packets with any destination MAC address were incorrectly treated as having a valid destination MAC. The new firmware now discards RTT packets if their destination MAC does not match the port's MAC.

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.

No new features and changes have been included in version 26.45.1020.

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: 26.45.1020 **(Recommended)**
Filename: 26_45_1020-MCX631432AS-ADA_Ax.pldm.fwpkg; 26_45_1020-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/connectx6lxfirmwarev26451020/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 26.45.1020:

- Configuring PHY_RATE_MASK for 10G in NV settings incorrectly disabled 10G capabilities.
- RTT packets with any destination MAC address were incorrectly treated as having a valid destination MAC. The new firmware now discards RTT packets if their destination MAC does not match the port's MAC.

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.

No new features and changes have been included in version 26.45.1020.

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: 28.45.1200 **(Recommended)**
Filename: 28_45_1200-MCX75310AAS-NEAT_HPE2_Ax.pldm.fwpkg; 28_45_1200-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/connectx7firmwarev28451200/known+issues

Fixes

The following fixes have been included in version 28.45.1200:

- Fixed DC InfiniBand functionality.

Enhancements

New features and changes included in version 28.45.1200:

- Introduced a 1ms delay for SPDM responses.

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: 28.45.1200 **(Recommended)**
Filename: 28_45_1200-MCX75310AAS-HEAT_HPE2_Ax.pldm.fwpkg; 28_45_1200-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/connectx7firmwarev28451200/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 28.45.1200:

- Fixed DC InfiniBand functionality.

Enhancements

New features and changes included in version 28.45.1200:

- Introduced a 1ms delay for SPDM responses.

Supported Devices and Features

HPE Part Number	NVIDIA VPI Adapter	PSID
P45642-B22	HPE InfiniBand NDR200/Ethernet 200Gb 1-port OSFP PCIe5 x16 MCX75310AAS-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: 28.45.1200 **(Recommended)**
Filename: 28_45_1200-MCX755106AC-HEAT_HPE_Ax.pldm.fwpkg; 28_45_1200-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/connectx7firmwarev28451200/known+issues

Fixes

The following fixes have been included in version 28.45.1200:

- Fixed DC InfiniBand functionality.

Enhancements

New features and changes included in version 28.45.1200:

- Introduced a 1ms delay for SPDM responses.

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 Mellanox MCX623106AS-CDAT Ethernet 100Gb 2-port QSFP56 Adapter for HPE
Version: 22.45.1020 **(Recommended)**
Filename: 22_45_1020-MCX623106AS-CDA_Ax.pldm.fwpkg; 22_45_1020-MCX623106AS-CDA_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/connectx6dxfirmwarev22451020/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 22.45.1020:

- PCC_CNP_COUNT could not be reset using the pcc_counter.sh script in the DOCA tools.
- VQoS algorithm issue related to learning when an element is active and when it begins sending traffic.
- A race condition that would prevent the application from transmitting when VQoS was enabled.
- Bandwidth would drop when unbinding multiple VFs with VQoS enabled.
- RTT packets with any destination MAC address were incorrectly treated as having a valid destination MAC. The new firmware now discards RTT packets if their destination MAC does not match the port's MAC.

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.

No new features and changes have been included in version 22.45.1020.

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 Top

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!

- 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.
- 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

- Fixed an issue where SEDs reverting to foreign after controller reboot due to the otherwise owned flag not being saved to the datastore.
- 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 rebuilt.
- 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.
- 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
- 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.
- Fixed an issue where physical drive Predictive Failure status not reported correctly by tools and iLO.
- 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.
- Fixed an issue where uncorrectable DDR ECC errors could be reported at boot due to cache being accessed before initialization.
- Fixed an issue where the controller could lock up (0x3120C) when enabling MCP due to duplicate routing entries from flooded BMC requests.
- 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.
- Fixed an issue where the controller could lock up (0x1E30) under high I/O workloads when configuration changes occurred simultaneously with a LUN reset.
- Fixed an issue where RAID 0 could hang with I/O timeouts and LUN resets during Predictive Spare Rebuild.

- 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.
- 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.
- Fixed an issue where Micron 6550 SED drives could fail to create a Secured Volume due to insufficient timeout during the TCG Revert process.
- 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.
- 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.
- Fixed an issue where Battery Redfish Alerts contained an incorrect OriginOfCondition pointing to a StorageController instead of the Battery resource.
- 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.
- 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.
- 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 exxpected behavior.
- 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.
- 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.
- 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.
- 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.
- 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

- Added SSD life expectancy monitoring.
- Added support to require privileged operations token for all RDE ACTION operations, including Drive.Reset and Storage.SetEncryptionKey, improving security for data-destructive actions.
- Added support to provide meaningful updateInterval values for Numeric Sensor PDRs, setting 5 seconds for controller temperature and 60 seconds for drive temperature sensors.
- 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.
- Enhanced DriveMetrics support by updating the schema version from 1.0.0 to 1.2.0, adding reporting for ReadIOKiBytes and WriteIOKiBytes properties.
- 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.
- Added support to securely transfer encryption keys in remote key management mode.
- Enhanced drive writes cache status reporting in HII.

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:

- Windows: https://www.hpe.com/global/swpublishing/MTX-84a4e0bb354f48eaad65cf9451
- Linux: https://www.hpe.com/global/swpublishing/MTX-b6448d485ca64fd7a5d0d5f75e
- VMware: https://www.hpe.com/global/swpublishing/MTX-ad49b1acb0d4455c86460c727a

Prerequisites

- iLO 6 version 1.10 or later is required for Gen11 and Gen12 servers.
- 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

- Introduced Self-Encrypting Drive on P81162-B21 NS204i-u 960GB NVMe SED Boot Device
- 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!

- **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

- 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.
    - 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 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!

- **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

- 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.

        - 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 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!

- **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

- 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.
        - 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 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.
    - 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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  - 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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- 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 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

- 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.

        - 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.
- 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 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!

- **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

- 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.
        - 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: 14.4.473.30 **(Recommended)**
Filename: PP14.4.473.30_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	14.4.473.30	14.4.473.30	14.4.473.29	14.4.469.0
HPE SN1720E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.4.473.30	14.4.473.30	14.4.473.29	14.4.469.0

Fixed the Following:

1. Switch Login Incomplete After Firmware Upgrade
2. Boot Incomplete on RHEL 10

Prerequisites

The minimum version for adapter to support PLDM is 14.4.473.14

Fixes

Fixed the Following:

1. Switch Login Incomplete After Firmware Upgrade
2. Boot Incomplete on RHEL 10

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	14.4.473.30	14.4.473.30	14.4.473.29	14.4.469.0
HPE SN1720E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.4.473.30	14.4.473.30	14.4.473.29	14.4.469.0

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: 02.11.01 **(Recommended)**
Filename: mh021101.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	02.11.01	09.15.05	7.39	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.11.01	09.15.05	7.39	0.0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.11.01	09.15.05	7.39	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.11.01	09.15.05	7.39	0.0

Fixed the following:

- BitLocker recovery is triggered during POST due to an option ROM verification failure on the Marvell adapter, preventing system to boot to Windows OS.

Fixes

Fixed the following:

- BitLocker recovery is triggered during POST due to an option ROM verification failure on the Marvell adapter, preventing system to boot to Windows OS.

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	02.11.01	09.15.05	7.39	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.11.01	09.15.05	7.39	0.0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.11.01	09.15.05	7.39	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.11.01	09.15.05	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:

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

Smart Storage Administrator (SSA) CLI Smart Component for ESXi 8.0 for Gen10/Gen10 Plus/Gen11 Controllers
Version: 2025.09.01 **(Recommended)**
Filename: cp065587.compsig; cp065587.zip

Important Note!

- Actual ESXi Version is 6.50.11.0

Fixes

- Fixed the "Parity Initialization Method" information displayed for non-parity RAID levels.
- Fixed an issue where users were unable to clear the controller's configuration when a foreign volume was present.
- Fixed an issue where a foreign-owned SED drive was being listed for array creation.
- Fixed an issue where the last failure reason was not listing on physical drives.
- Fixed an issue where SSAScripting failed to create an encrypted volume while in express local mode.
- Fixed an issue where an error/warning message was not being generated correctly while expanding a RAID 1+0 volume.
- Fixed an issue where a duplicate entry for the physical drive was displayed.

Software - Storage Controller Top

HPE MegaRAID Storage Administrator StorCLI for VMware8.0 (For Gen10P and Gen11 Controllers)
Version: 2025.08.01 **(Recommended)**
Filename: cp067756.compsig; cp067756.zip

Important Note!

- Actual ESXi Version is 007.3212.0000.0000

Enhancements

- 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 8.0
Version: 2025.05.01 **(Recommended)**
Filename: cp066387.compsig; cp066387.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 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 5.4.85.0
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:

32Gb 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 Top

HPE Agentless Management Bundle for ESXi for Gen11 and Gen12 Servers
Version: 802.12.2.0 **(Recommended)**
Filename: amsdvComponent_802.12.2.0.8-1_24764940.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 enhancements in this release.

HPE Agentless Management Bundle Smart Component on ESXi for Gen11 and Gen12 Servers
Version: 2025.05.01 **(Recommended)**
Filename: cp066690.compsig; cp066690.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 enhancements in this release.

Get connected

hpe.com/info/getconnected

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

Trademark acknowledgments, if needed.

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