

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 2026.09.00.00 Release Notes for VMware ESXi 8.0 U3

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ROM Flash Firmware Package - HPE ProLiant Compute DL110/EL140 Gen12 (U77) Servers
Version: 1.50_07-24-2026 (**Recommended**)
Filename: U77_1.50_07_24_2026.fwpkg; U77_1.50_07_24_2026.json

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with Intel Kaseyville Granite Rapids-D XCC & HCC PLR5 BKC update. Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

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

To streamline content and avoid duplication across documents, starting the Gen12 platform, the UEFI Workload Based Profiles and Tuning Guide has been deprecated, and the contents of this document are now available as part of the current UEFI System Utilities User Guide for HPE Compute Gen12 servers based on iLO7 (<https://hpe.com/support/UEFIG12-iLO7-UG-en>).

Deliverable Name:

HPE System ROM - U77

Release Version:

1.50_07-24-2026

Last Recommended or Critical Revision:

1.50_07-24-2026

Previous Revision:

1.42_05-29-2026

Firmware Dependencies:

None

Enhancements/New Features:

Add support for "Virtual NUMA" and "Number of Virtual Numa Nodes" in BIOS/Platform Configuration (RBSU). See option paths.

- System Configuration > BIOS/Platform Configuration (RBSU) > Memory Options > Virtual NUMA

- System Configuration > BIOS/Platform Configuration (RBSU) > Memory Options > Number of Virtual Numa Nodes

Added support for secure boot keys auto enrollment after UEFI FW update.

Problems Fixed:

Addressed an issue where NVMe-oF IPv6 target hard drives were not detected during VMware ESXi 9.0 installation.

Addressed an issue where the information for DPLL and GNSS device firmware could be corrupted.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with Intel Kaseyville Granite Rapids-D XCC & HCC PLR5 BKC update. Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

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

To streamline content and avoid duplication across documents, starting the Gen12 platform, the UEFI Workload Based Profiles and Tuning Guide has been deprecated, and the contents of this document are now available as part of the current UEFI System Utilities User Guide for HPE Compute Gen12 servers based on iLO7 (<https://hpe.com/support/UEFIG12-iLO7-UG-en>).

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where NVMe-oF IPv6 target hard drives were not detected during VMware ESXi 9.0 installation.

Addressed an issue where the information for DPLL and GNSS device firmware could be corrupted.

Known Issues:

None

Enhancements

Add support for "Virtual NUMA" and "Number of Virtual Numa Nodes" in BIOS/Platform Configuration (RBSU). See option paths.

- System Configuration > BIOS/Platform Configuration (RBSU) > Memory Options > Virtual NUMA

- System Configuration > BIOS/Platform Configuration (RBSU) > Memory Options > Number of Virtual Numa Nodes

Added support for secure boot keys auto enrollment after UEFI FW update.

ROM Flash Firmware Package - HPE ProLiant Compute DL320/DL340/DL340e Gen12 (U71) Servers

Version: 1.90_08-20-2026 (**Recommended**)

Filename: U71_1.90_08_20_2026.fwpkg; U71_1.90_08_20_2026.json

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with Intel Xeon 6900/6700/6500-Series UPLR5 BKC 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:

1.90_08-20-2026

Last Recommended or Critical Revision:

1.90_08-20-2026

Previous Revision:

1.82_06-26-2026

Firmware Dependencies:

None

Enhancements/New Features:

Added a new "Memory Integrity" option under "Memory Options > Memory Encryption Options" that enables Cryptographic Memory Integrity (CMI) checking for full SGX/TDX support, protecting data from memory tampering and attacks. This setting has the following Redfish property:

/redfish/v1/systems/1/bios/settings/MemIntegrity

Added new "PCIe Resizable BAR" and "PCIe Resizable BAR Max Size" options under "PCIe Device Configuration > Advanced PCIe Configuration" that allow enabling or disabling PCIe Resizable BAR and setting the maximum negotiated BAR size (8 GB through Unlimited). These settings have the following Redfish properties:

/redfish/v1/systems/1/bios/settings/PcieResizableBar

/redfish/v1/systems/1/bios/settings/PcieResizableBarMaxSize

Added a new "Virtual Numa Nodes" option under "Memory Options" that allows configuration of Virtual NUMA node count when Virtual NUMA is enabled. This setting has the following Redfish property:

/redfish/v1/systems/1/bios/settings/VirtualNumaNodes

Added a new "PCIe Poison TLP Egress Blocking" option under "Service Options" that allows disabling PCIe Poison TLP Egress Blocking if needed for compatibility or debugging purposes. This setting has the following Redfish property:

/redfish/v1/systems/1/bios/settings/PciePoisonTlpEgressBlocking

Added a new "Auto Enroll Policy" option under "Server Security > Secure Boot Settings" that controls automatic enrollment of updated Secure Boot keys after a firmware update based on the configured policy, reducing the need for manual key management after firmware updates. This setting has the following Redfish property:

/redfish/v1/systems/1/bios/settings/AutoEnrollPolicy

Added a new "PMIC Error Clear" option under RBSU Service Options that allows service engineers to clear PMIC errors as a diagnostic tool, helping to address transient memory-related issues without requiring DIMM replacement.

Updated the Maximum Memory Bus Frequency option to support up to 8000 MT/s for 1DPC configurations.

Adjusted the default maximum memory speed for 2DPC configurations from 5200 MT/s to 6000 MT/s for Granite Rapids-SP processors.

Updated multi-language translation support for RBSU menus and options.

[Added 8-DIMM memory population support for Intel Xeon 6900P-series (GNR-AP) processors. (XD230 only)]

Problems Fixed:

Addressed an issue where the UEFI memory map could become highly fragmented, causing some operating system installers to intermittently fail to launch on BirchStream platforms.

Addressed an issue where the Custom workload profile might not retain the Collaborative Power Control (CPC) setting after an NVRAM clear, causing CPC to revert from Disabled to Enabled.

Addressed an issue where the Direct To UPI (D2K) option could not be effectively disabled in the production BIOS build.

Addressed an issue where the SPDML I/O firmware version might be reported as 0.0 on some platforms due to a cache initialization timing issue.

Addressed an issue where the SPDML Overall Boot Policy might not be read from the correct location, resulting in unexpected SPDML boot policy behavior.

Addressed an issue where BIOS settings might be lost after an I/O factory reset in CNSA mode, causing multiple I/O management functions to stop working.

Addressed an issue where the serial number might be missing after an AC power cycle.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with Intel Xeon 6900/6700/6500-Series UPLR5 BKC 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 UEFI memory map could become highly fragmented, causing some operating system installers to intermittently fail to launch on BirchStream platforms.

Addressed an issue where the Custom workload profile might not retain the Collaborative Power Control (CPC) setting after an NVRAM clear, causing CPC to revert from Disabled to Enabled.

Addressed an issue where the Direct To UPI (D2K) option could not be effectively disabled in the production BIOS build.

Addressed an issue where the SPDML I/O firmware version might be reported as 0.0 on some platforms due to a cache initialization timing issue.

Addressed an issue where the SPDML Overall Boot Policy might not be read from the correct location, resulting in unexpected SPDML boot policy behavior.

Addressed an issue where BIOS settings might be lost after an I/O factory reset in CNSA mode, causing multiple I/O management functions to stop working.

Addressed an issue where the serial number might be missing after an AC power cycle.

Known Issues:

None

Enhancements

Added a new "Memory Integrity" option under "Memory Options > Memory Encryption Options" that enables Cryptographic Memory Integrity (CMI) checking for full SGX/TDX support, protecting data from memory tampering and attacks. This setting has the following Redfish property:

```
/redfish/v1/systems/1/bios/settings/MemIntegrity
```

Added new "PCIe Resizable BAR" and "PCIe Resizable BAR Max Size" options under "PCIe Device Configuration > Advanced PCIe Configuration" that allow enabling or disabling PCIe Resizable BAR and setting the maximum negotiated BAR size (8 GB through Unlimited). These settings have the following Redfish properties:

```
/redfish/v1/systems/1/bios/settings/PcieResizableBar
```

```
/redfish/v1/systems/1/bios/settings/PcieResizableBarMaxSize
```

Added a new "Virtual Numa Nodes" option under "Memory Options" that allows configuration of Virtual NUMA node count when Virtual NUMA is enabled. This setting has the following Redfish property:

```
/redfish/v1/systems/1/bios/settings/VirtualNumaNodes
```

Added a new "PCIe Poison TLP Egress Blocking" option under "Service Options" that allows disabling PCIe Poison TLP Egress Blocking if needed for compatibility or debugging purposes. This setting has the following Redfish property:

```
/redfish/v1/systems/1/bios/settings/PciePoisonTlpEgressBlocking
```

Added a new "Auto Enroll Policy" option under "Server Security > Secure Boot Settings" that controls automatic enrollment of updated Secure Boot keys after a firmware update based on the configured policy, reducing the need for manual key management after firmware updates. This setting has the following Redfish property:

```
/redfish/v1/systems/1/bios/settings/AutoEnrollPolicy
```

Added a new "PMIC Error Clear" option under RBSU Service Options that allows service engineers to clear PMIC errors as a diagnostic tool, helping to address transient memory-related issues without requiring DIMM replacement.

Updated the Maximum Memory Bus Frequency option to support up to 8000 MT/s for 1DPC configurations.

Adjusted the default maximum memory speed for 2DPC configurations from 5200 MT/s to 6000 MT/s for Granite Rapids-SP processors.

Updated multi-language translation support for RBSU menus and options.

[Added 8-DIMM memory population support for Intel Xeon 6900P-series (GNR-AP) processors. (XD230 only)]

ROM Flash Firmware Package - System ROM for HPE ProLiant Compute DL380a/DL580 Gen12 (U72)

Version: 1.90_08-20-2026 (**Recommended**)

Filename: U72_1.90_08_20_2026.fwpgk; U72_1.90_08_20_2026.json

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with Intel Xeon 6900/6700/6500-Series UPLR5 BKC updates.

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

To streamline content and avoid duplication across documents, starting the Gen12 platform, the UEFI Workload Based Profiles and Tuning Guide has been deprecated, and the contents of this document are now available as part of the current UEFI System Utilities User Guide for HPE Compute Gen12 servers based on iLO7 (<https://hpe.com/support/UEFIG12-iLO7-UG-en>).

Deliverable Name:

HPE ProLiant Compute DL380a/DL580 Gen12 System ROM - U72

Release Version:

1.90_08-20-2026

Last Recommended or Critical Revision:

1.90_08-20-2026

Previous Revision:

1.82_06-26-2026

Firmware Dependencies:

None

Enhancements/New Features:

Added a new "Memory Integrity" option under "Memory Options > Memory Encryption Options" that enables Cryptographic Memory Integrity (CMI) checking for full SGX/TDX support, protecting data from memory tampering and attacks. This setting has the following Redfish property:

/redfish/v1/systems/1/bios/settings/MemIntegrity

Added new "PCIe Resizable BAR" and "PCIe Resizable BAR Max Size" options under "PCIe Device Configuration > Advanced PCIe Configuration" that allow enabling or disabling PCIe Resizable BAR and setting the maximum negotiated BAR size (8 GB through Unlimited). These settings have the following Redfish properties:

/redfish/v1/systems/1/bios/settings/PcieResizableBar

/redfish/v1/systems/1/bios/settings/PcieResizableBarMaxSize

Added a new "Virtual Numa Nodes" option under "Memory Options" that allows configuration of Virtual NUMA node count when Virtual NUMA is enabled. This setting has the following Redfish property:

/redfish/v1/systems/1/bios/settings/VirtualNumaNodes

Added a new "PCIe Poison TLP Egress Blocking" option under "Service Options" that allows disabling PCIe Poison TLP Egress Blocking if needed for compatibility or debugging purposes. This setting has the following Redfish property:

/redfish/v1/systems/1/bios/settings/PciePoisonTlpEgressBlocking

Added a new "Auto Enroll Policy" option under "Server Security > Secure Boot Settings" that controls automatic enrollment of updated Secure Boot keys after a firmware update based on the configured policy, reducing the need for manual key management after firmware updates. This setting has the following Redfish property:

/redfish/v1/systems/1/bios/settings/AutoEnrollPolicy

Added a new "PMIC Error Clear" option under RBSU Service Options that allows service engineers to clear PMIC errors as a diagnostic tool, helping to address transient memory-related issues without requiring DIMM replacement.

Updated the Maximum Memory Bus Frequency option to support up to 8000 MT/s for 1DPC configurations.

Adjusted the default maximum memory speed for 2DPC configurations from 5200 MT/s to 6000 MT/s for Granite Rapids-SP processors.

Updated multi-language translation support for RBSU menus and options.

[Added 8-DIMM memory population support for Intel Xeon 6900P-series (GNR-AP) processors. (XD230 only)]

Problems Fixed:

Addressed an issue where the UEFI memory map could become highly fragmented, causing some operating system installers to intermittently fail to launch on BirchStream platforms.

Addressed an issue where the Custom workload profile might not retain the Collaborative Power Control (CPC) setting after an NVRAM clear, causing CPC to revert from Disabled to Enabled.

Addressed an issue where the Direct To UPI (D2K) option could not be effectively disabled in the production BIOS build.

Addressed an issue where the SPDMM iLO firmware version might be reported as 0.0 on some platforms due to a cache initialization timing issue.

Addressed an issue where the SPDMM Overall Boot Policy might not be read from the correct location, resulting in unexpected SPDMM boot policy behavior.

Addressed an issue where BIOS settings might be lost after an iLO factory reset in CNSA mode, causing multiple iLO management functions to stop working.

Addressed an issue where the serial number might be missing after an AC power cycle.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with Intel Xeon 6900/6700/6500-Series UPLR5 BKC updates.

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

To streamline content and avoid duplication across documents, starting the Gen12 platform, the UEFI Workload Based Profiles and Tuning Guide has been deprecated, and the contents of this document are now available as part of the current UEFI System Utilities User Guide for HPE Compute Gen12 servers based on iLO7 (<https://hpe.com/support/UEFIG12-iLO7-UG-en>).

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the UEFI memory map could become highly fragmented, causing some operating system installers to intermittently fail to launch on BirchStream platforms.

Addressed an issue where the Custom workload profile might not retain the Collaborative Power Control (CPC) setting after an NVRAM clear, causing CPC to revert from Disabled to Enabled.

Addressed an issue where the Direct To UPI (D2K) option could not be effectively disabled in the production BIOS build.

Addressed an issue where the SPDm iLO firmware version might be reported as 0.0 on some platforms due to a cache initialization timing issue.

Addressed an issue where the SPDm Overall Boot Policy might not be read from the correct location, resulting in unexpected SPDm boot policy behavior.

Addressed an issue where BIOS settings might be lost after an iLO factory reset in CNSA mode, causing multiple iLO management functions to stop working.

Addressed an issue where the serial number might be missing after an AC power cycle.

Known Issues:

None

Enhancements

Added a new "Memory Integrity" option under "Memory Options > Memory Encryption Options" that enables Cryptographic Memory Integrity (CMI) checking for full SGX/TDX support, protecting data from memory tampering and attacks. This setting has the following Redfish property:

/redfish/v1/systems/1/bios/settings/MemIntegrity

Added new "PCIe Resizable BAR" and "PCIe Resizable BAR Max Size" options under "PCIe Device Configuration > Advanced PCIe Configuration" that allow enabling or disabling PCIe Resizable BAR and setting the maximum negotiated BAR size (8 GB through Unlimited). These settings have the following Redfish properties:

/redfish/v1/systems/1/bios/settings/PcieResizableBar

/redfish/v1/systems/1/bios/settings/PcieResizableBarMaxSize

Added a new "Virtual Numa Nodes" option under "Memory Options" that allows configuration of Virtual NUMA node count when Virtual NUMA is enabled. This setting has the following Redfish property:

/redfish/v1/systems/1/bios/settings/VirtualNumaNodes

Added a new "PCIe Poison TLP Egress Blocking" option under "Service Options" that allows disabling PCIe Poison TLP Egress Blocking if needed for compatibility or debugging purposes. This setting has the following Redfish property:

/redfish/v1/systems/1/bios/settings/PciePoisonTlpEgressBlocking

Added a new "Auto Enroll Policy" option under "Server Security > Secure Boot Settings" that controls automatic enrollment of updated Secure Boot keys after a firmware update based on the configured policy, reducing the need for manual key management after firmware updates. This setting has the following Redfish property:

/redfish/v1/systems/1/bios/settings/AutoEnrollPolicy

Added a new "PMIC Error Clear" option under RBSU Service Options that allows service engineers to clear PMIC errors as a diagnostic tool, helping to address transient memory-related issues without requiring DIMM replacement.

Updated the Maximum Memory Bus Frequency option to support up to 8000 MT/s for 1DPC configurations.

Adjusted the default maximum memory speed for 2DPC configurations from 5200 MT/s to 6000 MT/s for Granite Rapids-SP processors.

Updated multi-language translation support for RBSU menus and options.

[Added 8-DIMM memory population support for Intel Xeon 6900P-series (GNR-AP) processors. (XD230 only)]

Driver - Network

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HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0

Version: 2026.09.00 **(Recommended)**

Filename: cp072685.compsig; cp072685.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 vibspot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.
- o HPE recommends the *HPE Broadcom NetXtreme-E Firmware Version*, 238.1.169000 or later, for use with this driver.

Enhancements

- o This product enhances diagnostics by allowing firmware crash dumps to be retrieved when the firmware is not operational. The Ethernet driver must be loaded.
- o This product adds support for the following Broadcom Ethernet adapters:
 - BCM57414 Ethernet 10/25Gb 2-port SFP28 Dual Rate Adapter for HPE
 - BCM57414 Ethernet 10/25Gb 2-port SFP28 OCP3 Dual Rate Adapter for HPE
 - BCM57412 Ethernet 10Gb 2-port BASE-T Adapter for HPE
 - BCM57412 Ethernet 10Gb 2-port BASE-T OCP3 Adapter for HPE

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
- o Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 Dual Rate Adapter for HPE
- o Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 OCP3 Dual Rate Adapter for HPE
- o Broadcom BCM57412 Ethernet 10Gb 2-port BASE-T Adapter for HPE
- o Broadcom BCM57412 Ethernet 10Gb 2-port BASE-T OCP3 Adapter for HPE

HPE Intel ixgben Driver for VMware vSphere 8.0

Version: 2026.09.00 **(Recommended)**

Filename: cp072319.compsig; cp072319.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 vib depot.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 3.31.0 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 1.60 or later, for use with this driver

Fixes

TBD

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

Intel icen Driver for VMware vSphere 8.0

Version: 2026.09.00 **(Recommended)**

Filename: cp072316.compsig; cp072316.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 vib depot.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 5.0 or later, for use with these drivers.

Enhancements

- o This product enhanced driver error reporting control by adding a module parameter for L4E error reporting.
- o This product enhanced driver diagnostics by adding VSI identification to private statistics.

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
- o Intel E835-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE
- o Intel E835-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE
- o Intel E835-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE
- o Intel E835-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- o Intel E835-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE
- o Intel E835-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE

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: 2026.09.01 **(Recommended)**

Filename: cp071617.compsig; cp071617.zip

Important Note!

- o Actual Version is 7.738.04.00

Fixes

- o Fixed a driver unload failure that occurs when management commands are still outstanding.

HPE ProLiant Gen10 Smart Array and Gen10 Plus and Gen11 Smart RAID Controller Driver for VMware vSphere 8.0 (Driver Component).

Version: 2026.07.01 **(Recommended)**

Filename: cp071895.compsig; cp071895.zip

Important Note!

- o Actual ESXi8.0 driver version is 80.4902.0.103
- o Actual ESXi9.0 driver version is 90.4902.0.103
- 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 8.23 for SR SAS/SATA controllers and firmware version 03.01.47.052 for SR tri-mode controllers, along with Windows 2022/2025 driver version 1016.38.0.1003, Linux driver version 2.1.40-020, and VMware ESXi driver version 80.4902.0.103/90.4902.0.103, as this combination has been fully qualified.
- o For Windows 2016 driver, please use 1010.84.0.1012 in below link: <https://www.hpe.com/global/swpublishing/MTX-c523e081ab344bc4b4bc9d5686>
- o For Windows 2019 driver, please use 1016.10.0.1004 in below link: <https://www.hpe.com/global/swpublishing/MTX-29e86213c3ab4e94b0b54906f7>

Enhancements

- o New release.

Firmware - Network

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Broadcom Firmware Package for BCM57412 adapter

Version: 238.1.169.0 **(Recommended)**

Filename: BCM238.1.169.0_BCM957412A4121HC.fwpkg; BCM238.1.169.0_BCM957412A4121HC.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 238.1.110.0 or later
- o HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-238.1.165.0 or later
- o HPE Broadcom NetXtreme-E Drivers for VMware, version 2026.09.00 or later

Fixes

- o This product fixes an issue where retransmitted NC-SI responses could use an incorrect MCTP tag, causing the response to be discarded or misrouted.
- o This product fixes an issue where ports without pluggable optical modules could incorrectly report the module status as "Not Inserted" instead of "Not Applicable."

Enhancements

- o This product added Secure Boot support using the Microsoft Option ROM UEFI CA 2023 certificate.

Supported Devices and Features

This product supports the following network adapters:

- o HPE Ethernet 10Gb 2-port SFP+ BCM57412 Adapter

Broadcom Firmware Package for BCM57412 OCP3 adapter

Version: 238.1.169.0 **(Recommended)**

Filename: BCM238.1.169.0_BCM957412N4120HC.fwpkg; BCM238.1.169.0_BCM957412N4120HC.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 238.1.110.0 or later
- o HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-238.1.165.0 or later
- o HPE Broadcom NetXtreme-E Drivers for VMware, version 2026.09.00 or later

Fixes

- o This product fixes an issue where retransmitted NC-SI responses could use an incorrect MCTP tag, causing the response to be discarded or misrouted.
- o This product fixes an issue where ports without pluggable optical modules could incorrectly report the module status as "Not Inserted" instead of "Not Applicable."

Enhancements

- o This product added Secure Boot support using the Microsoft Option ROM UEFI CA 2023 certificate.

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port SFP+ BCM57412 OCP3 Adapter

Broadcom Firmware Package for BCM57414 adapter

Version: 238.1.169.0 (**Recommended**)

Filename: BCM238.1.169.0_BCM957414A4142HC.fwpkg; BCM238.1.169.0_BCM957414A4142HC.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 238.1.110.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-238.1.165.0 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2026.09.00 or later

Fixes

- This product fixes an issue where retransmitted NC-SI responses could use an incorrect MCTP tag, causing the response to be discarded or misrouted.
- This product fixes an issue where ports without pluggable optical modules could incorrectly report the module status as "Not Inserted" instead of "Not Applicable."

Enhancements

- This product added Secure Boot support using the Microsoft Option ROM UEFI CA 2023 certificate.

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter

Broadcom Firmware Package for BCM57414 OCP3 adapter

Version: 238.1.169.0 (**Recommended**)

Filename: BCM238.1.169.0_BCM957414N4140HC.fwpkg; BCM238.1.169.0_BCM957414N4140HC.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 238.1.110.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-238.1.165.0 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2026.09.00 or later

Fixes

- This product fixes an issue where retransmitted NC-SI responses could use an incorrect MCTP tag, causing the response to be discarded or misrouted.
- This product fixes an issue where ports without pluggable optical modules could incorrectly report the module status as "Not Inserted" instead of "Not Applicable."

Enhancements

- This product added Secure Boot support using the Microsoft Option ROM UEFI CA 2023 certificate.

Supported Devices and Features

This product supports the following network adapter:

- HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 OCP3 Adapter

Broadcom Firmware Package for BCM57416 adapter

Version: 238.1.169.0 (**Recommended**)

Filename: BCM238.1.169.0_BCM957416A4162HC.fwpkg; BCM238.1.169.0_BCM957416A4162HC.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 238.1.110.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-238.1.165.0 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2026.09.00 or later

Fixes

- This product fixes an issue where retransmitted NC-SI responses could use an incorrect MCTP tag, causing the response to be discarded or misrouted.

Enhancements

- This product added Secure Boot support using the Microsoft Option ROM UEFI CA 2023 certificate.

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port BaseT BCM57416 Adapter

Broadcom Firmware Package for BCM57416 OCP3 adapter

Version: 238.1.169.0 (**Recommended**)

Filename: BCM238.1.169.0_BCM957416N4160HC.fwpkg; BCM238.1.169.0_BCM957416N4160HC.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 238.1.110.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-238.1.165.0 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2026.09.00 or later

Fixes

- This product fixes an issue where retransmitted NC-SI responses could use an incorrect MCTP tag, causing the response to be discarded or misrouted.

Enhancements

- This product added Secure Boot support using the Microsoft Option ROM UEFI CA 2023 certificate.

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port BaseT BCM57416 OCP3 Adapter

Broadcom Firmware Package for BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter

Version: 238.1.169.0 (B) (**Recommended**)

Filename: BCM238.1.169.0_BCM957504-P425H.fwpkg; BCM238.1.169.0_BCM957504-P425H.json

Important Note!

Please note that this firmware package is intended for HPE ProLiant Gen10, Gen10 Plus, Gen11 and Gen12 platforms.

The firmware update method has changed from a PLDM-based update through iLO to an FMP-based update through UEFI. Please carefully review the instructions below before proceeding with the firmware update.

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 238.1.110.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-238.1.165.0 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2026.09.00 or later

Fixes

- This product fixes an issue where the adapter might not be detected after PCIe disable/enable cycles by coordinating hardware reset and GPIO access.

Enhancements

- This product added Secure Boot support using the Microsoft Option ROM UEFI CA 2023 certificate.

Supported Devices and Features

This product supports the following network adapters:

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

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

Version: 238.1.169.0 (B) (**Recommended**)

Filename: BCM238.1.169.0_BCM957504-N425H.fwpkg; BCM238.1.169.0_BCM957504-N425H.json

Important Note!

Please note that this firmware package is intended for HPE ProLiant Gen10, Gen10 Plus, Gen11 and Gen12 platforms.

The firmware update method has changed from a PLDM-based update through iLO to an FMP-based update through UEFI. Please carefully review the instructions below before proceeding with the firmware update.

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 238.1.110.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-238.1.165.0 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2026.09.00 or later

Fixes

This product fixes an issue where the adapter might not be detected after PCIe disable/enable cycles by coordinating hardware reset and GPIO access.

Enhancements

- This product added Secure Boot support using the Microsoft Option ROM UEFI CA 2023 certificate.

Supported Devices and Features

This product supports the following network adapters:

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

Broadcom Firmware Package for BCM57504 SFP28 adapters

Version: 235.1.220.0 (**Recommended**)

Filename: BCM235.1.220.0_BCM957504-P425H.fwpkg; BCM235.1.220.0_BCM957504-P425H.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 1.10.3-235.1.164.0 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.11.00 or later

Enhancements

This product is bunny hop for Thor 237 fwpkg

Supported Devices and Features

This product supports the following network adapters:

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

Broadcom Firmware Package for BCM57504 SFP28 OCP3 adapters

Version: 235.1.220.0 (**Recommended**)

Filename: BCM235.1.220.0_BCM957504-N425H.fwpkg; BCM235.1.220.0_BCM957504-N425H.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 1.10.3-235.1.164.0 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.11.00 or later

Enhancements

This product is bunny hop for Thor 237 fwpkg

Supported Devices and Features

This product supports the following network adapters:

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

Broadcom Firmware Package for BCM57608 100GbE 2p Adapter

Version: 238.1.169.0 (**Recommended**)

Filename: BCM238.1.169.0_BCM957608-P2100HQF00.fwpkg; BCM238.1.169.0_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 238.1.110.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-238.1.165.0 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2026.09.00 or later

Fixes

- This product fixes an issue where the adapter might not be detected after PCIe disable/enable cycles by coordinating hardware reset and GPIO access.

Enhancements

- This product added Secure Boot support using the Microsoft Option ROM UEFI CA 2023 certificate.

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: 238.1.169.0 (**Recommended**)

Filename: BCM238.1.169.0_BCM957608-N2100HQI00.fwpkg; BCM238.1.169.0_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 238.1.110.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-238.1.165.0 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2026.09.00 or later

Fixes

- This product fixes an issue where the adapter might not be detected after PCIe disable/enable cycles by coordinating hardware reset and GPIO access.

Enhancements

- This product added Secure Boot support using the Microsoft Option ROM UEFI CA 2023 certificate.

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: 20.38.51 (B) (**Recommended**)

Filename: BCM5719A1907HC-4x1G-20.38.51.fwpkg; BCM5719A1907HC-4x1G-20.38.51.json

Important Note!

HPE recommends *HPE Broadcom tg3 Ethernet Drivers*, versions 3.140x or later, for use with this firmware.

Fixes

TBD

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: 20.38.51 (B) (**Recommended**)

Filename: BCM5719N1905HC-4x1G-20.38.51.fwpkg; BCM5719N1905HC-4x1G-20.38.51.json

Important Note!

HPE recommends *HPE Broadcom tg3 Ethernet Drivers*, versions 3.140x or later, for use with this firmware.

Fixes

TBD

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: 1.60 (B) (**Recommended**)

Filename: HPE_E610_IT4_OCP_1p60_8000F176.fwpkg; HPE_E610_IT4_OCP_1p60_8000F176.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 6.4.4-1 or later
- Intel ixgben Driver for VMware, version 2026.09.00 or later

Enhancements

Changes included in version 1.60(B):

- Product rebuilt with dual signing key (RSA + ML-DSA).

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: 5.00 (**Recommended**)

Filename: HPE_E810_2CQDA2_O_SEC_5p0_PLDMoMCTP_80021BCE.fwpkg; HPE_E810_2CQDA2_O_SEC_5p0_PLDMoMCTP_80021BCE.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 2.6.6-1 or later
- Intel icen Driver for VMware, version 2026.09.00 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 LLDP receive reporting so the port information is populated correctly.

Enhancements

- This product added Secure Boot support using the Microsoft Option ROM UEFI CA 2023 certificate.
- This product enhanced the E810 firmware package with the latest CVL production firmware image.
- This product enhanced UEFI firmware management consistency with supported adapters.

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: 5.00 (**Recommended**)

Filename: HPE_E810_CQDA2_5p0_PLDMoMCTP_80021BCC.fwpkg; HPE_E810_CQDA2_5p0_PLDMoMCTP_80021BCC.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 2.6.6-1 or later
- Intel icen Driver for VMware, version 2026.09.00 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 LLDP receive reporting so the port information is populated correctly.

Enhancements

- This product added Secure Boot support using the Microsoft Option ROM UEFI CA 2023 certificate.
- This product enhanced the E810 firmware package with the latest CVL production firmware image.
- This product enhanced UEFI firmware management consistency with supported adapters.

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: 5.00 (**Recommended**)

Filename: HPE_E810_CQDA2_OCP_5p0_NCSIwPLDMoMCTP_80021BD1.fwpkg; HPE_E810_CQDA2_OCP_5p0_NCSIwPLDMoMCTP_80021BD1.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 2.6.6-1 or later
- o Intel icen Driver for VMware, version 2026.09.00 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 LLDP receive reporting so the port information is populated correctly.

Enhancements

- o This product added Secure Boot support using the Microsoft Option ROM UEFI CA 2023 certificate.
- o This product enhanced the E810 firmware package with the latest CVL production firmware image.
- o This product enhanced UEFI firmware management consistency with supported adapters.

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: 5.00 (**Recommended**)

Filename: HPE_E810_XXVDA2_SD_5p0_PLDMoMCTP_80021BD4.fwpkg; HPE_E810_XXVDA2_SD_5p0_PLDMoMCTP_80021BD4.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 2.6.6-1 or later
- o Intel icen Driver for VMware, version 2026.09.00 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 LLDP receive reporting so the port information is populated correctly.

Enhancements

- o This product added Secure Boot support using the Microsoft Option ROM UEFI CA 2023 certificate.
- o This product enhanced the E810 firmware package with the latest CVL production firmware image.
- o This product enhanced UEFI firmware management consistency with supported adapters.

Supported Devices and Features

This product supports the following network adapters:

- o 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: 5.00 (**Recommended**)

Filename: HPE_E810_XXVDA2_SD_OCP_5p0_NCSIwPLDMoMCTP_80021BD3.fwpkg; HPE_E810_XXVDA2_SD_OCP_5p0_NCSIwPLDMoMCTP_80021BD3.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 2.6.6-1 or later
- o Intel icen Driver for VMware, version 2026.09.00 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 LLDP receive reporting so the port information is populated correctly.

Enhancements

- o This product added Secure Boot support using the Microsoft Option ROM UEFI CA 2023 certificate.
- o This product enhanced the E810 firmware package with the latest CVL production firmware image.
- o This product enhanced UEFI firmware management consistency with supported adapters.

Supported Devices and Features

This product supports the following network adapters:

- o 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: 5.00 (**Recommended**)

Filename: HPE_E810_XXVDA4_FH_5p0_PLDMoMCTP_80021BD5.fwpkg; HPE_E810_XXVDA4_FH_5p0_PLDMoMCTP_80021BD5.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 2.6.6-1 or later
- o Intel icen Driver for VMware, version 2026.09.00 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 LLDP receive reporting so the port information is populated correctly.

Enhancements

- o This product added Secure Boot support using the Microsoft Option ROM UEFI CA 2023 certificate.
- o This product enhanced the E810 firmware package with the latest CVL production firmware image.
- o This product enhanced UEFI firmware management consistency with supported adapters.

Supported Devices and Features

This product supports the following network adapters:

- o 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: 5.00 (**Recommended**)

Filename: HPE_E810_XXV4_OCP_5p0_NCSIwPLDMoMCTP_80021BCD.fwpkg; HPE_E810_XXV4_OCP_5p0_NCSIwPLDMoMCTP_80021BCD.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 2.6.6-1 or later
- o Intel icen Driver for VMware, version 2026.09.00 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 LLDP receive reporting so the port information is populated correctly.

Enhancements

- o This product added Secure Boot support using the Microsoft Option ROM UEFI CA 2023 certificate.
- o This product enhanced the E810 firmware package with the latest CVL production firmware image.
- o This product enhanced UEFI firmware management consistency with supported adapters.

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

Intel Firmware Package For E835-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter

Version: 2.10 (**Recommended**)

Filename: HPE_E835_CQDA2_2p10_MCTP_80018D04.fwpkg; HPE_E835_CQDA2_2p10_MCTP_80018D04.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 1.21.114.0 or later
- o Intel ice Drivers for Linux, version 2.6.6-1 or later
- o Intel icen Driver for VMware, version 2026.09.00 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

Enhancements

Initial version.

Supported Devices and Features

This product supports the following network adapters:

- o Intel E835-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE

Intel Firmware Package For E835-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter

Version: 2.10 (**Recommended**)

Filename: HPE_E835_CQDA2_OCP_2p10_NCSI_80018D05.fwpkg; HPE_E835_CQDA2_OCP_2p10_NCSI_80018D05.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 1.21.114.0 or later
- o Intel ice Drivers for Linux, version 2.6.6-1 or later
- o Intel icen Driver for VMware, version 2026.09.00 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

Enhancements

Initial version.

Supported Devices and Features

This product supports the following network adapters:

- o Intel E835-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE

Intel Firmware Package For E835-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter

Version: 2.10 (**Recommended**)

Filename: HPE_E835_XXVDA2_2p10_MCTP_80018D0A.fwpkg; HPE_E835_XXVDA2_2p10_MCTP_80018D0A.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 1.21.114.0 or later
- o Intel ice Drivers for Linux, version 2.6.6-1 or later
- o Intel icen Driver for VMware, version 2026.09.00 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

Enhancements

Initial version.

Supported Devices and Features

This product supports the following network adapters:

- o Intel E835-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE

Intel Firmware Package For E835-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter

Version: 2.10 (**Recommended**)

Filename: HPE_E835_XXVDA2_OCP_2p10_NCSI_80018D09.fwpkg; HPE_E835_XXVDA2_OCP_2p10_NCSI_80018D09.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 1.21.114.0 or later
- o Intel ice Drivers for Linux, version 2.6.6-1 or later
- o Intel icen Driver for VMware, version 2026.09.00 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

Enhancements

Initial version.

Supported Devices and Features

This product supports the following network adapters:

- o Intel E835-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE

Intel Firmware Package For E835-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter
Version: 2.10 (**Recommended**)
Filename: HPE_E835_XXVDA4_2p10_MCTP_80018D57.fwpkg; HPE_E835_XXVDA4_2p10_MCTP_80018D57.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 1.21.114.0 or later
- o Intel ice Drivers for Linux, version 2.6.6-1 or later
- o Intel icen Driver for VMware, version 2026.09.00 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

Enhancements

Initial version.

Supported Devices and Features

This product supports the following network adapters:

- o Intel E835-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE

Intel Firmware Package For E835-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter
Version: 2.10 (**Recommended**)
Filename: HPE_E835_XXVDA4_OCP_2p10_NCSI_80018D55.fwpkg; HPE_E835_XXVDA4_OCP_2p10_NCSI_80018D55.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 1.21.114.0 or later
- o Intel ice Drivers for Linux, version 2.6.6-1 or later
- o Intel icen Driver for VMware, version 2026.09.00 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

Enhancements

Initial version.

Supported Devices and Features

This product supports the following network adapters:

- o Intel E835-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 SKU Part Number	Mellanox Ethernet Only Adapters	PSID
S2A69A	NVIDIA Ethernet 10/25Gb 2-port SFP28 NVMe-oF Crypto Adapter for HPE	HPE0000000077

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

Version: 26.49.1014 (A) (**Recommended**)

Filename: 26_49_1014-MCX631102AS-ADA_Ax.pldm.fwpkg; 26_49_1014-MCX631102AS-ADA_Ax.pldm.json

Important Note!

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A list of known issues with this release is available under Section 6 in : <https://docs.nvidia.com/nvidia-connectx-6-lx-adapter-cards-firmware-release-notes-v26-49-1014.pdf>

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 26.49.1014:

- o Live migration target would not receive a port state change event on the resume VHCA command. The target now generates this event so software that depends on port state is notified of any changes.
- o PCC issue where RDMA traffic would stall at large scale for certain IP and UDP source-port combinations when a PCC user algorithm was active and no CC algorithm was configured in slot 0.

Enhancements

Changes included in version 26.49.1014(A):

- o Product rebuilt with dual signing key (RSA + ML-DSA).

No new features or changes are included in version 26.49.1014.

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: 26.49.1014 (A) (**Recommended**)

Filename: 26_49_1014-MCX631432AS-ADA_Ax.pldm.fwpkg; 26_49_1014-MCX631432AS-ADA_Ax.pldm.json

Important Note!

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A list of known issues with this release is available under Section 6 in : <https://docs.nvidia.com/nvidia-connectx-6-lx-adapter-cards-firmware-release-notes-v26-49-1014.pdf>

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 26.49.1014:

- o Live migration target would not receive a port state change event on the resume VHCA command. The target now generates this event so software that depends on port state is notified of any changes.
- o PCC issue where RDMA traffic would stall at large scale for certain IP and UDP source-port combinations when a PCC user algorithm was active and no CC algorithm was configured in slot 0.

Enhancements

Changes included in version 26.49.1014(A):

- o Product rebuilt with dual signing key (RSA + ML-DSA).

No new features or changes are included in version 26.49.1014.

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: 28.49.1014 **(Recommended)**
Filename: 28_49_1014-MCX75310AAS-NEAT_HPE2_Ax.pldm.fwpkg; 28_49_1014-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://networking-docs.nvidia.com/connectx7fwrn/28.49.1014/known-issues>

Fixes

The following issues have been fixed in version 28.49.1014:

- o NSM Get-Port-Network-Addresses returned an invalid format on B200/B300 HMC. It now follows the documented non-compact format.
- o An issue that could prevent the adapter's PCIe link from re-establishing after the host resumed from a deep power-down state. This fix improves the reliability of suspend/resume cycles.
- o A DEAD IRISC assert that could occur during TLV NV_DATA flash access by suspending the watchdog while waiting for flash IPC (until timeout), preventing the assert on TLV access.
- o An issue where repeatedly writing NVCONFIG TLVs could cause excessive NV_DATA partition swaps during garbage collection. This rapid cycling could accelerate flash wear (end-of-life at 100,000 erases) and potentially render the device inoperable. Firmware now avoids unnecessary physical writes by returning OK when the requested configuration already exists in flash, and increases the maximum supported NV_DATA partition swaps from 100,000 to 200,000.
- o ICM_RES_HW_DMFS_ENCAP_H_FW was allocated per GVMI, preventing some RTTs from using it.
- o vDPA doorbell resources were not released, which could cause failures when running other functionality after a vDPA FLR. Doorbell resources are now properly unlocked.
- o RDMA traffic could stall in large-scale deployments for certain source IP and UDP source-port combinations when DOCA PCC was active and no congestion-control algorithm was configured in algorithm slot 0.
- o The live migration target did not receive a port state change event on the resume VHCA command. The target now generates this event so software that depends on port state is notified of any changes.
- o A precopy image was processed during the stop-copy phase, causing prolonged downtime due to a software limitation. The handling was slow because the handler performed a linear search for data; this was improved by replacing it with a faster search approach enabled via compile-time preprocessing.
- o QPs established before loading DOCA PCC could exhibit inconsistent algorithm-selected behavior between ports in LAG mode after DOCA PCC is loaded.

Enhancements

New features and changes included in version 28.49.1014:

- o Added support for Congestion-Control histogram collection in the PCC/ZTR-RTT algorithm. After enabling this capability, customers can read RATE and RTT histogram counters for PCC-managed flows.
- o Added a new parameter to the ZTR_RTTCC algorithm to define the probe-packet timeout threshold.
- o Added support for a new packet reformat type for PSP transport packets. This reformat removes the PSP trailer and the UDP + PSP transport headers, and updates the IP Protocol field based on the PSP next_header value.

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 NDR/Ethernet 400Gb 1-port OSFP PCIe5 x16 MCX75310AAS-NEAT Generic Adapter : HPE part number P45641-H24
Version: 28.49.1014 **(Recommended)**
Filename: 28_49_1014-MCX75310AAS-NEA_Ax.pldm.fwpkg; 28_49_1014-MCX75310AAS-NEA_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://networking-docs.nvidia.com/connectx7fwrn/28.49.1014/known-issues>

Fixes

The following issues have been fixed in version 28.49.1014:

- o NSM Get-Port-Network-Addresses returned an invalid format on B200/B300 HMC. It now follows the documented non-compact format.
- o An issue that could prevent the adapter's PCIe link from re-establishing after the host resumed from a deep power-down state. This fix improves the reliability of suspend/resume cycles.
- o A DEAD IRISC assert that could occur during TLV NV_DATA flash access by suspending the watchdog while waiting for flash IPC (until timeout), preventing the assert on TLV access.
- o An issue where repeatedly writing NVCONFIG TLVs could cause excessive NV_DATA partition swaps during garbage collection. This rapid cycling could accelerate flash wear (end-of-life at 100,000 erases) and potentially render the device inoperable. Firmware now avoids unnecessary physical writes by returning OK when the requested configuration already exists in flash, and increases the maximum supported NV_DATA partition swaps from 100,000 to 200,000.
- o ICM_RES_HW_DMFS_ENCAP_H_FW was allocated per GVMI, preventing some RTTs from using it.
- o vDPA doorbell resources were not released, which could cause failures when running other functionality after a vDPA FLR. Doorbell resources are now properly unlocked.
- o RDMA traffic could stall in large-scale deployments for certain source IP and UDP source-port combinations when DOCA PCC was active and no congestion-control algorithm was configured in algorithm slot 0.
- o The live migration target did not receive a port state change event on the resume VHCA command. The target now generates this event so software that depends on port state is notified of any changes.
- o A precopy image was processed during the stop-copy phase, causing prolonged downtime due to a software limitation. The handling was slow because the handler performed a linear search for data; this was improved by replacing it with a faster search approach enabled via compile-time preprocessing.
- o QPs established before loading DOCA PCC could exhibit inconsistent algorithm-selected behavior between ports in LAG mode after DOCA PCC is loaded.

Enhancements

New features and changes included in version 28.49.1014:

- o Added support for Congestion-Control histogram collection in the PCC/ZTR-RTT algorithm. After enabling this capability, customers can read RATE and RTT histogram counters for PCC-managed flows.
- o Added a new parameter to the ZTR_RTTCC algorithm to define the probe-packet timeout threshold.
- o Added support for a new packet reformat type for PSP transport packets. This reformat removes the PSP trailer and the UDP + PSP transport headers, and updates the IP Protocol field based on the PSP next_header value.

Supported Devices and Features

HPE Part Number	NVIDIA VPI Adapter	PSID
P45641-H24	HPE InfiniBand NDR/Ethernet 400Gb 1-port OSFP PCIe5 x16 MCX75310AAS-NEAT Generic Adapter (P45641-H24)	MT_0000000838

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: 28.49.1014 (Recommended)

Filename: 28_49_1014-MCX75310AAS-HEAT_HPE2_Ax.pldm.fwpkg; 28_49_1014-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://networking-docs.nvidia.com/connectx7fwrn/28.49.1014/known-issues>

Prerequisites

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

Fixes

The following issues have been fixed in version 28.49.1014:

- o NSM Get-Port-Network-Addresses returned an invalid format on B200/B300 HMC. It now follows the documented non-compact format.
- o An issue that could prevent the adapter's PCIe link from re-establishing after the host resumed from a deep power-down state. This fix improves the reliability of suspend/resume cycles.
- o A DEAD IRISC assert that could occur during TLV NV_DATA flash access by suspending the watchdog while waiting for flash IPC (until timeout), preventing the assert on TLV access.
- o An issue where repeatedly writing NVCONFIG TLVs could cause excessive NV_DATA partition swaps during garbage collection. This rapid cycling could accelerate flash wear (end-of-life at 100,000 erases) and potentially render the device inoperable. Firmware now avoids unnecessary physical writes by returning OK when the

- requested configuration already exists in flash, and increases the maximum supported NV_DATA partition swaps from 100,000 to 200,000.
- o ICM_RES_HW_DMFS_ENCAP_H_FW was allocated per GVMI, preventing some RTTs from using it.
- o vDPA doorbell resources were not released, which could cause failures when running other functionality after a vDPA FLR. Doorbell resources are now properly unlocked.
- o RDMA traffic could stall in large-scale deployments for certain source IP and UDP source-port combinations when DOCA PCC was active and no congestion-control algorithm was configured in algorithm slot 0.
- o The live migration target did not receive a port state change event on the resume VHCA command. The target now generates this event so software that depends on port state is notified of any changes.
- o A precopy image was processed during the stop-copy phase, causing prolonged downtime due to a software limitation. The handling was slow because the handler performed a linear search for data; this was improved by replacing it with a faster search approach enabled via compile-time preprocessing.
- o QPs established before loading DOCA PCC could exhibit inconsistent algorithm-selected behavior between ports in LAG mode after DOCA PCC is loaded.

Enhancements

New features and changes included in version 28.49.1014:

- o Added support for Congestion-Control histogram collection in the PCC/ZTR-RTT algorithm. After enabling this capability, customers can read RATE and RTT histogram counters for PCC-managed flows.
- o Added a new parameter to the ZTR_RTTCC algorithm to define the probe-packet timeout threshold.
- o Added support for a new packet reformat type for PSP transport packets. This reformat removes the PSP trailer and the UDP + PSP transport headers, and updates the IP Protocol field based on the PSP next_header value.

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 200Gb 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Generic Adapter : HPE part number P45642-H23
Version: 28.49.1014 **(Recommended)**
Filename: 28_49_1014-MCX75310AAS-HEA_Ax.pldm.fwpkg; 28_49_1014-MCX75310AAS-HEA_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://networking-docs.nvidia.com/connectx7fwrn/28.49.1014/known-issues>

Prerequisites

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

Fixes

The following issues have been fixed in version 28.49.1014:

- o NSM Get-Port-Network-Addresses returned an invalid format on B200/B300 HMC. It now follows the documented non-compact format.
- o An issue that could prevent the adapter's PCIe link from re-establishing after the host resumed from a deep power-down state. This fix improves the reliability of suspend/resume cycles.
- o A DEAD IRISC assert that could occur during TLV NV_DATA flash access by suspending the watchdog while waiting for flash IPC (until timeout), preventing the assert on TLV access.
- o An issue where repeatedly writing NVCONFIG TLVs could cause excessive NV_DATA partition swaps during garbage collection. This rapid cycling could accelerate flash wear (end-of-life at 100,000 erases) and potentially render the device inoperable. Firmware now avoids unnecessary physical writes by returning OK when the requested configuration already exists in flash, and increases the maximum supported NV_DATA partition swaps from 100,000 to 200,000.
- o ICM_RES_HW_DMFS_ENCAP_H_FW was allocated per GVMI, preventing some RTTs from using it.
- o vDPA doorbell resources were not released, which could cause failures when running other functionality after a vDPA FLR. Doorbell resources are now properly unlocked.
- o RDMA traffic could stall in large-scale deployments for certain source IP and UDP source-port combinations when DOCA PCC was active and no congestion-control algorithm was configured in algorithm slot 0.
- o The live migration target did not receive a port state change event on the resume VHCA command. The target now generates this event so software that depends on port state is notified of any changes.
- o A precopy image was processed during the stop-copy phase, causing prolonged downtime due to a software limitation. The handling was slow because the handler performed a linear search for data; this was improved by replacing it with a faster search approach enabled via compile-time preprocessing.
- o QPs established before loading DOCA PCC could exhibit inconsistent algorithm-selected behavior between ports in LAG mode after DOCA PCC is loaded.

Enhancements

New features and changes included in version 28.49.1014:

- o Added support for Congestion-Control histogram collection in the PCC/ZTR-RTT algorithm. After enabling this capability, customers can read RATE and RTT histogram counters for PCC-managed flows.
- o Added a new parameter to the ZTR_RTTCC algorithm to define the probe-packet timeout threshold.
- o Added support for a new packet reformat type for PSP transport packets. This reformat removes the PSP trailer and the UDP + PSP transport headers, and updates the IP Protocol field based on the PSP next_header value.

Supported Devices and Features

HPE Part Number	NVIDIA VPI Adapter	PSID
P45642-H23	HPE InfiniBand NDR200/Ethernet 200Gb 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Generic Adapter (P45642-H23)	MT_0000000844

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: 28.49.1014 **(Recommended)**

Filename: 28_49_1014-MCX755106AC-HEAT_HPE_Ax.pldm.fwpgk; 28_49_1014-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://networking-docs.nvidia.com/connectx7fwrn/28.49.1014/known-issues>

Fixes

The following issues have been fixed in version 28.49.1014:

- o NSM Get-Port-Network-Addresses returned an invalid format on B200/B300 HMC. It now follows the documented non-compact format.
- o An issue that could prevent the adapter's PCIe link from re-establishing after the host resumed from a deep power-down state. This fix improves the reliability of suspend/resume cycles.
- o A DEAD IRISC assert that could occur during TLV NV_DATA flash access by suspending the watchdog while waiting for flash IPC (until timeout), preventing the assert on TLV access.
- o An issue where repeatedly writing NVCONFIG TLVs could cause excessive NV_DATA partition swaps during garbage collection. This rapid cycling could accelerate flash wear (end-of-life at 100,000 erases) and potentially render the device inoperable. Firmware now avoids unnecessary physical writes by returning OK when the requested configuration already exists in flash, and increases the maximum supported NV_DATA partition swaps from 100,000 to 200,000.
- o ICM_RES_HW_DMFS_ENCAP_H_FW was allocated per GVMI, preventing some RTTs from using it.
- o vDPA doorbell resources were not released, which could cause failures when running other functionality after a vDPA FLR. Doorbell resources are now properly unlocked.
- o RDMA traffic could stall in large-scale deployments for certain source IP and UDP source-port combinations when DOCA PCC was active and no congestion-control algorithm was configured in algorithm slot 0.
- o The live migration target did not receive a port state change event on the resume VHCA command. The target now generates this event so software that depends on port state is notified of any changes.
- o A precopy image was processed during the stop-copy phase, causing prolonged downtime due to a software limitation. The handling was slow because the handler performed a linear search for data; this was improved by replacing it with a faster search approach enabled via compile-time preprocessing.
- o QPs established before loading DOCA PCC could exhibit inconsistent algorithm-selected behavior between ports in LAG mode after DOCA PCC is loaded.

Enhancements

New features and changes included in version 28.49.1014:

- o Added support for Congestion-Control histogram collection in the PCC/ZTR-RTT algorithm. After enabling this capability, customers can read RATE and RTT histogram counters for PCC-managed flows.
- o Added a new parameter to the ZTR_RTTCC algorithm to define the probe-packet timeout threshold.
- o Added support for a new packet reformat type for PSP transport packets. This reformat removes the PSP trailer and the UDP + PSP transport headers, and updates the IP Protocol field based on the PSP next_header value.

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: 22.49.1014 (A) **(Recommended)**

Filename: 22_49_1014-MCX623106AS-CDA_Ax.pldm.fwpgk; 22_49_1014-MCX623106AS-CDA_Ax.pldm.json

Important Note!

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

A list of known issues with this release is available at: <https://networking-docs.nvidia.com/connectx6dxfrn/22.49.1014/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 22.49.1014:

- o vDPA doorbell resources were not released causing failures when running other functionality after a vDPA FLR. Doorbell resources are now properly unlocked.
- o Live migration target would not receive a port state change event on the resume VHCA command. The target now generates this event so software that depends on port state is notified of any changes.
- o PCC issue where RDMA traffic would stall at large scale for certain IP and UDP source-port combinations when a PCC user algorithm was active and no CC algorithm was configured in slot 0.

Enhancements

Changes included in version 22.49.1014(A):

- o Product rebuilt with dual signing key (RSA + ML-DSA).

No new features or changes are included in version 22.49.1014.

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: 8.23 (**Recommended**)

Filename: HPE_SR_Gen10_8.23_A.fwpkg

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 8.23 for SR SAS/SATA controllers and firmware version 03.01.47.052 for SR tri-mode controllers, along with Windows 2022/2025 driver version 1016.38.0.1003, Linux driver version 2.1.40-020, and VMware ESXi driver
- o **For Windows 2016 driver, please use 1010.84.0.1012 in below link:**

<https://www.hpe.com/global/swpublishing/MTX-c523e081ab344bc4b4bc9d5686>

- o **For Windows 2019 driver, please use 1016.10.0.1004 in below link:**

<https://www.hpe.com/global/swpublishing/MTX-29e86213c3ab4e94b0b54906f7>

Fixes

- o Fixed an issue where the system could lock up with controller lockup code 0x27006 during heavy I/O when a drive reported a predictive failure, by ensuring failure handling does not block critical system monitoring operations.
- o Fixed an issue where volume creation could fail when using mixed OPAL V1 and OPAL V2 self-encrypting drives (SEDs), ensuring consistent validation and successful configuration.
- o Fixed an issue that could cause reduced 4K random write performance in degraded RAID 60 configurations.
- o Fixed an issue where the system could crash when hot-adding drives to failed RAID 50/60 volumes, improving stability during recovery operations.
- o Fixed an issue where CBE remote encryption could remain enabled after being disabled in UEFI HII, ensuring settings are applied correctly.
- o Fixed an issue where the system could fail to boot during device discovery due to invalid device identification data, improving boot reliability.
- o Fixed an issue where encryption key mismatches could occur during master key updates, ensuring consistent and reliable encryption operations.
- o Fixed an issue where a drive could be incorrectly marked as failed during boot when a sanitize operation was in progress, preventing false drive failures.
- o Fixed an issue where secure erase operations using ATA passthrough could fail to start, ensuring successful execution of secure erase commands.
- o Fixed an issue where sanitize operations did not resume after a controller reboot, ensuring proper continuation of secure erase processes.
- o Added support to display drive depopulation and restoration status in UEFI HII, providing better visibility into ongoing drive operations.
- o Added support to display the remaining duration of array drive identification in UEFI HII, improving visibility into ongoing LED identification activity.

Adding the CA detail as below:

- o For E208e-p A new Microsoft Option ROM UEFI CA 2023 certificate has been added to replace the expired CA 2011 one. To prevent Secure Boot issues, please update BIOS and "Reset All Keys to Platform Defaults" following the instructions in Advisory: (Revision) Microsoft Windows - Information About Windows UEFI CA 2023 Certificate

CA: https://support.hpe.com/hpesc/public/docDisplay?docId=emr_na-a00157968en_us

Enhancements

- o Added HDD Power-On Hours reporting based on the PowerOnHours property in Drive Metrics, with periodic updates to improve drive usage visibility and indicate whether the attribute is supported by the drive.

Firmware Package - HPE MR216i-o Gen11 Tri Mode Controller

Version: 52.38.3-6909 (**Recommended**)

Filename: HPE_MR216i-o_Gen11_52.38.3-6909_A.fwpkg; HPE_MR216i-o_Gen11_52.38.3-6909_A.json

Important Note!

- o This firmware version to be used on HPE MR216i-o Gen11 Controller.
- o The minimum iLO versions required to support 52.36.3-6584 are iLO 7 1.20, iLO 6 1.74, and iLO 5 3.18.

Prerequisites

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

Fixes

- o Fixed an issue where EncryptionKey and EncryptionKeyIdentifier values set through Redfish Storage.SetEncryptionKey could be stored incorrectly because BEJ string escape-sequence decoding was not supported
- o Fixed an issue where ControllerPreviousError occurs during UBM10 firmware upgrade or downgrade and cause update failure
- o Fixed an issue where Controller hits exception and resets when IOs with unaligned addresses are issued to NVME drives
- o Fixed an issue where Firmware hits an exception while converting JBODs to unconfigure state
- o Fixed an issue where Data Abort exception was observed during concurrent I/O operations, drive hot-plug and UBM firmware update
- o Fixed an issue where controller may hang during power cycle test
- o Fixed an issue where SED drive becomes foreign after reboot
- o Fixed an issue where snapdump collection may cause crash with NVMe drives present
- o Fixed an issue where volume credation could fail when third-party locked drives are present in the system
- o Fixed an issue where SATA drives might not be discovered during hot-plug operations
- o Fixed an issue where observed PL (Protocol Layer module) fault 0x4318 during the IPMI power-cycle test
- o Fixed an issue where drive write cache status changes were not reflected in MRSA for drives in existing volumes
- o Fixed an issue where server health shows critical for 10-15 seconds when drives connected behind controller are removed simultaneously
- o Fixed an issue where the DriveMissingCleared event was not logged after replacing a drive in a degraded RAID volume

Enhancements

- o Supported the Microsoft UEFI CA 2023 signing.
 - Referred to a00156355en_us Advisory: [Microsoft Windows - Information About Windows UEFI CA 2023 Certificate](#)
- o DMTF PLDM Redfish Device Enablement enhancements
 - Added support for Redfish Certificates (GET).
 - Added support for Redfish Storage.SetControllerPassword.
 - Added support for Redfish Drive Control (POST/PATCH).
 - POST #Drive.Reset
 - ForceOff, ForceOn, and PowerCycle operations are supported.
 - ResetType@Redfish.AllowableValues[] populates ForceOff, ForceOn Or Powercycle depending on the DFC's SES Array element Status DevOff bit.
 - The link to Action Drive.Reset is not made available until the ongoing Drive.Reset Action takes effect on the slot.
 - DriveRemoved event will be logged when ForceOff is triggered.
 - DriveInserted event will be logged when ForceOn is triggered.
 - DriveRemoved and DriveInserted event will be logged when PowerCycle is triggered.
 - PATCH Drive[StatusIndicator]
 - OK and Fail StatusIndicators are allowed.
 - StorageDevice Message Registry 1.5.0 has been adopted. Applicable Redfish Conditions (GET) and Redfish alerts have been updated for the following MessageKeys:
 - DrivePredictedMediaLifeLow: This MessageKey and Redfish alert is populated when the SSDPercentageUsed is 95% or above.
 - VolumeRebuilding: Whenever rebuild or copyback starts on the volume.
 - VolumeReconfiguring: Whenever transformation starts on the volume.
 - Aligned ResetToDefaults.ResetAll and NVRAM Clear to MR932
 - After performing ResetToDefaults.ResetAll operation, controller will be placed in fault state and will not respond to any Redfish request. Reboot is required to bring the controller back online.
 - Aligned VolumeOffline and VolumeOfflineCleared Redfish Event handling to MR932
 - FW logs Redfish VolumeOffline always against the Invalid target ID (0xFF) when foreign config is present.
 - VolumeOfflineCleared is sent when there is no foreign config.
 - After importing the volume, VolumeOfflineCleared alert is logged with the Invalid target ID.
- o Added support to download snapdump through iLO
 - The feature is supported on iLO7 1.22 and later.
 - The latest 2 snapdumps (including on-demand and auto) will be captured if needed.
 - Storcli and MRSA shall be used to trigger on-demand snapdump.
- o Added support for mixing UBM10 and UBM11 backplanes in a Box.
- o Included the Serial Number in PCIe VPD Info.

Firmware Package - HPE MR216i-p Gen11 Tri Mode Controller

Version: 52.38.3-6909 **(Recommended)**

Filename: HPE_MR216i-p_Gen11_52.38.3-6909_A.fwpkg; HPE_MR216i-p_Gen11_52.38.3-6909_A.json

Important Note!

- o This firmware version to be used on HPE MR216i-p Gen11 Controller.
- o The minimum iLO versions required to support 52.36.3-6584 are iLO 7 1.20, iLO 6 1.74, and iLO 5 3.18.

Prerequisites

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

Fixes

- o Fixed an issue where EncryptionKey and EncryptionKeyIdentifier values set through Redfish Storage.SetEncryptionKey could be stored incorrectly because BEJ string escape-sequence decoding was not supported
- o Fixed an issue where ControllerPreviousError occurs during UBM10 firmware upgrade or downgrade and cause update failure
- o Fixed an issue where Controller hits exception and resets when IOs with unaligned addresses are issued to NVME drives
- o Fixed an issue where Firmware hits an exception while converting JBODs to unconfigure state
- o Fixed an issue where Data Abort exception was observed during concurrent I/O operations, drive hot-plug and UBM firmware update
- o Fixed an issue where controller may hang during power cycle test
- o Fixed an issue where SED drive becomes foreign after reboot
- o Fixed an issue where snapdump collection may cause crash with NVMe drives present
- o Fixed an issue where volume credation could fail when third-party locked drives are present in the system
- o Fixed an issue where SATA drives might not be discovered during hot-plug operations
- o Fixed an issue where observed PL (Protocol Layer module) fault 0x4318 during the IPMI power-cycle test
- o Fixed an issue where drive write cache status changes were not reflected in MRSA for drives in existing volumes
- o Fixed an issue where server health shows critical for 10-15 seconds when drives connected behind controller are removed simultaneously
- o Fixed an issue where the DriveMissingCleared event was not logged after replacing a drive in a degraded RAID volume

Enhancements

- o Supported the Microsoft UEFI CA 2023 signing.
 - Referred to a00156355en_us Advisory: [Microsoft Windows - Information About Windows UEFI CA 2023 Certificate](#)
- o DMTF PLDM Redfish Device Enablement enhancements
 - Added support for Redfish Certificates (GET).
 - Added support for Redfish Storage.SetControllerPassword.
 - Added support for Redfish Drive Control (POST/PATCH).
 - POST #Drive.Reset
 - ForceOff, ForceOn, and PowerCycle operations are supported.
 - ResetType@Redfish.AllowableValues[] populates ForceOff, ForceOn Or Powercycle depending on the DFC's SES Array element Status DevOff bit.
 - The link to Action Drive.Reset is not made available until the ongoing Drive.Reset Action takes effect on the slot.
 - DriveRemoved event will be logged when ForceOff is triggered.
 - DriveInserted event will be logged when ForceOn is triggered.
 - DriveRemoved and DriveInserted event will be logged when PowerCycle is triggered.
 - PATCH Drive[StatusIndicator]
 - OK and Fail StatusIndicators are allowed.
 - StorageDevice Message Registry 1.5.0 has been adopted. Applicable Redfish Conditions (GET) and Redfish alerts have been updated for the following MessageKeys:
 - DrivePredictedMediaLifeLow: This MessageKey and Redfish alert is populated when the SSDPercentageUsed is 95% or above.
 - VolumeRebuilding: Whenever rebuild or copyback starts on the volume.
 - VolumeReconfiguring: Whenever transformation starts on the volume.
 - Aligned ResetToDefaults.ResetAll and NVRAM Clear to MR932
 - After performing ResetToDefaults.ResetAll operation, controller will be placed in fault state and will not respond to any Redfish request. Reboot is required to bring the controller back online.
 - Aligned VolumeOffline and VolumeOfflineCleared Redfish Event handling to MR932
 - FW logs Redfish VolumeOffline always against the Invalid target ID (0xFF) when foreign config is present.
 - VolumeOfflineCleared is sent when there is no foreign config.
 - After importing the volume, VolumeOfflineCleared alert is logged with the Invalid target ID.
- o Added support to download snapdump through iLO
 - The feature is supported on iLO7 1.22 and later.
 - The latest 2 snapdumps (including on-demand and auto) will be captured if needed.
 - Storcli and MRSA shall be used to trigger on-demand snapdump.
- o Added support for mixing UBM10 and UBM11 backplanes in a Box.
- o Included the Serial Number in PCIe VPD Info.

Firmware Package - HPE MR408i-o Gen11 Tri Mode Controller

Version: 52.38.3-6909 (**Recommended**)

Filename: HPE_MR408i-o_Gen11_52.38.3-6909_A.fwpkg; HPE_MR408i-o_Gen11_52.38.3-6909_A.json

Important Note!

- o This firmware version to be used on HPE MR408i-o Gen11 Controller.
- o The minimum iLO versions required to support 52.36.3-6584 are iLO 7 1.20, iLO 6 1.74, and iLO 5 3.18.

Prerequisites

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

Fixes

- o Fixed an issue where EncryptionKey and EncryptionKeyIdentifier values set through Redfish Storage.SetEncryptionKey could be stored incorrectly because BEJ string escape-sequence decoding was not supported
- o Fixed an issue where ControllerPreviousError occurs during UBM10 firmware upgrade or downgrade and cause update failure
- o Fixed an issue where Controller hits exception and resets when IOs with unaligned addresses are issued to NVME drives
- o Fixed an issue where Firmware hits an exception while converting JBODs to unconfigure state
- o Fixed an issue where Data Abort exception was observed during concurrent I/O operations, drive hot-plug and UBM firmware update
- o Fixed an issue where controller may hang during power cycle test
- o Fixed an issue where SED drive becomes foreign after reboot
- o Fixed an issue where snapdump collection may cause crash with NVMe drives present
- o Fixed an issue where volume credation could fail when third-party locked drives are present in the system
- o Fixed an issue where SATA drives might not be discovered during hot-plug operations
- o Fixed an issue where observed PL (Protocol Layer module) fault 0x4318 during the IPMI power-cycle test
- o Fixed an issue where drive write cache status changes were not reflected in MRSA for drives in existing volumes
- o Fixed an issue where server health shows critical for 10-15 seconds when drives connected behind controller are removed simultaneously
- o Fixed an issue where the DriveMissingCleared event was not logged after replacing a drive in a degraded RAID volume

Enhancements

- o Supported the Microsoft UEFI CA 2023 signing.
 - Referred to a00156355en_us Advisory: [Microsoft Windows - Information About Windows UEFI CA 2023 Certificate](#)
- o DMTF PLDM Redfish Device Enablement enhancements
 - Added support for Redfish Certificates (GET).
 - Added support for Redfish Storage.SetControllerPassword.
 - Added support for Redfish Drive Control (POST/PATCH).
 - POST #Drive.Reset
 - ForceOff, ForceOn, and PowerCycle operations are supported.
 - ResetType@Redfish.AllowableValues[] populates ForceOff, ForceOn Or Powercycle depending on the DFC's SES Array element Status DevOff bit.
 - The link to Action Drive.Reset is not made available until the ongoing Drive.Reset Action takes effect on the slot.
 - DriveRemoved event will be logged when ForceOff is triggered.
 - DriveInserted event will be logged when ForceOn is triggered.
 - DriveRemoved and DriveInserted event will be logged when PowerCycle is triggered.
 - PATCH Drive[StatusIndicator]
 - OK and Fail StatusIndicators are allowed.
 - StorageDevice Message Registry 1.5.0 has been adopted. Applicable Redfish Conditions (GET) and Redfish alerts have been updated for the following MessageKeys:
 - DrivePredictedMediaLifeLow: This MessageKey and Redfish alert is populated when the SSDPercentageUsed is 95% or above.
 - VolumeRebuilding: Whenever rebuild or copyback starts on the volume.

- VolumeReconfiguring: Whenever transformation starts on the volume.
- Aligned ResetToDefaults.ResetAll and NVRAM Clear to MR932
 - After performing ResetToDefaults.ResetAll operation, controller will be placed in fault state and will not respond to any Redfish request. Reboot is required to bring the controller back online.
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 - FW logs Redfish VolumeOffline always against the Invalid target ID (0xFF) when foreign config is present.
 - VolumeOfflineCleared is sent when there is no foreign config.
 - After importing the volume, VolumeOfflineCleared alert is logged with the Invalid target ID.
- Added support to download snapdump through iLO
 - The feature is supported on iLO7 1.22 and later.
 - The latest 2 snapdumps (including on-demand and auto) will be captured if needed.
 - Storcli and MRSA shall be used to trigger on-demand snapdump.
- Added support for mixing UBM10 and UBM11 backplanes in a Box.
- Included the Serial Number in PCIe VPD Info.

Firmware Package - HPE MR408i-p Gen11 Tri Mode Controller

Version: 52.38.3-6909 (**Recommended**)

Filename: HPE_MR408i-p_Gen11_52.38.3-6909_A.fwpkg; HPE_MR408i-p_Gen11_52.38.3-6909_A.json

Important Note!

- This firmware version to be used on HPE MR408i-p Gen11 Controller.
- The minimum iLO versions required to support 52.36.3-6584 are iLO 7 1.20, iLO 6 1.74, and iLO 5 3.18.

Prerequisites

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

Fixes

- Fixed an issue where EncryptionKey and EncryptionKeyIdentifier values set through Redfish Storage.SetEncryptionKey could be stored incorrectly because BEJ string escape-sequence decoding was not supported
- Fixed an issue where ControllerPreviousError occurs during UBM10 firmware upgrade or downgrade and cause update failure
- Fixed an issue where Controller hits exception and resets when IOs with unaligned addresses are issued to NVMe drives
- Fixed an issue where Firmware hits an exception while converting JBODs to unconfigure state
- Fixed an issue where Data Abort exception was observed during concurrent I/O operations, drive hot-plug and UBM firmware update
- Fixed an issue where controller may hang during power cycle test
- Fixed an issue where SED drive becomes foreign after reboot
- Fixed an issue where snapdump collection may cause crash with NVMe drives present
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- Fixed an issue where SATA drives might not be discovered during hot-plug operations
- Fixed an issue where observed PL (Protocol Layer module) fault 0x4318 during the IPMI power-cycle test
- Fixed an issue where drive write cache status changes were not reflected in MRSA for drives in existing volumes
- Fixed an issue where server health shows critical for 10-15 seconds when drives connected behind controller are removed simultaneously
- Fixed an issue where the DriveMissingCleared event was not logged after replacing a drive in a degraded RAID volume

Enhancements

- Supported the Microsoft UEFI CA 2023 signing.
 - Referred to a00156355en_us Advisory: [Microsoft Windows - Information About Windows UEFI CA 2023 Certificate](#)
- DMTF PLDM Redfish Device Enablement enhancements
 - Added support for Redfish Certificates (GET).
 - Added support for Redfish Storage.SetControllerPassword.
 - Added support for Redfish Drive Control (POST/PATCH).
 - POST #Drive.Reset
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 - After importing the volume, VolumeOfflineCleared alert is logged with the Invalid target ID.
- Added support to download snapdump through iLO
 - The feature is supported on iLO7 1.22 and later.
 - The latest 2 snapdumps (including on-demand and auto) will be captured if needed.
 - Storcli and MRSA shall be used to trigger on-demand snapdump.
- Added support for mixing UBM10 and UBM11 backplanes in a Box.
- Included the Serial Number in PCIe VPD Info.

Firmware Package - HPE MR416i-o Gen11 Tri Mode Controller

Version: 52.38.3-6909 (**Recommended**)

Filename: HPE_MR416i-o_Gen11_52.38.3-6909_A.fwpkg; HPE_MR416i-o_Gen11_52.38.3-6909_A.json

Important Note!

- o This firmware version to be used on HPE MR416i-o Gen11 Controller.
- o The minimum iLO versions required to support 52.36.3-6584 are iLO 7 1.20, iLO 6 1.74, and iLO 5 3.18.

Prerequisites

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

Fixes

- o Fixed an issue where EncryptionKey and EncryptionKeyIdentifier values set through Redfish Storage.SetEncryptionKey could be stored incorrectly because BEJ string escape-sequence decoding was not supported
- o Fixed an issue where ControllerPreviousError occurs during UBM10 firmware upgrade or downgrade and cause update failure
- o Fixed an issue where Controller hits exception and resets when IOs with unaligned addresses are issued to NVME drives
- o Fixed an issue where Firmware hits an exception while converting JBODs to unconfigure state
- o Fixed an issue where Data Abort exception was observed during concurrent I/O operations, drive hot-plug and UBM firmware update
- o Fixed an issue where controller may hang during power cycle test
- o Fixed an issue where SED drive becomes foreign after reboot
- o Fixed an issue where snapdump collection may cause crash with NVMe drives present
- o Fixed an issue where volume credation could fail when third-party locked drives are present in the system
- o Fixed an issue where SATA drives might not be discovered during hot-plug operations
- o Fixed an issue where observed PL (Protocol Layer module) fault 0x4318 during the IPMI power-cycle test
- o Fixed an issue where drive write cache status changes were not reflected in MRSA for drives in existing volumes
- o Fixed an issue where server health shows critical for 10-15 seconds when drives connected behind controller are removed simultaneously
- o Fixed an issue where the DriveMissingCleared event was not logged after replacing a drive in a degraded RAID volume

Enhancements

- o Supported the Microsoft UEFI CA 2023 signing.
 - Referred to a00156355en_us Advisory: [Microsoft Windows - Information About Windows UEFI CA 2023 Certificate](#)
- o DMTF PLDM Redfish Device Enablement enhancements
 - Added support for Redfish Certificates (GET).
 - Added support for Redfish Storage.SetControllerPassword.
 - Added support for Redfish Drive Control (POST/PATCH).
 - POST #Drive.Reset
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- o Added support to download snapdump through iLO
 - The feature is supported on iLO7 1.22 and later.
 - The latest 2 snapdumps (including on-demand and auto) will be captured if needed.
 - Storcli and MRSA shall be used to trigger on-demand snapdump.
- o Added support for mixing UBM10 and UBM11 backplanes in a Box.
- o Included the Serial Number in PCIe VPD Info.

Firmware Package - HPE MR416i-p Gen11 Tri Mode Controller

Version: 52.38.3-6909 (**Recommended**)

Filename: HPE_MR416i-p_Gen11_52.38.3-6909_A.fwpkg; HPE_MR416i-p_Gen11_52.38.3-6909_A.json

Important Note!

- o This firmware version to be used on HPE MR416i-p Gen11 Controller.
- o The minimum iLO versions required to support 52.36.3-6584 are iLO 7 1.20, iLO 6 1.74, and iLO 5 3.18.

Prerequisites

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

Fixes

- o Fixed an issue where EncryptionKey and EncryptionKeyIdentifier values set through Redfish Storage.SetEncryptionKey could be stored incorrectly because BEJ string escape-sequence decoding was not supported
- o Fixed an issue where ControllerPreviousError occurs during UBM10 firmware upgrade or downgrade and cause update failure
- o Fixed an issue where Controller hits exception and resets when IOs with unaligned addresses are issued to NVME drives
- o Fixed an issue where Firmware hits an exception while converting JBODs to unconfigure state
- o Fixed an issue where Data Abort exception was observed during concurrent I/O operations, drive hot-plug and UBM firmware update
- o Fixed an issue where controller may hang during power cycle test
- o Fixed an issue where SED drive becomes foreign after reboot

- o Fixed an issue where snapdump collection may cause crash with NVMe drives present
- o Fixed an issue where volume creation could fail when third-party locked drives are present in the system
- o Fixed an issue where SATA drives might not be discovered during hot-plug operations
- o Fixed an issue where observed PL (Protocol Layer module) fault 0x4318 during the IPMI power-cycle test
- o Fixed an issue where drive write cache status changes were not reflected in MRSA for drives in existing volumes
- o Fixed an issue where server health shows critical for 10-15 seconds when drives connected behind controller are removed simultaneously
- o Fixed an issue where the DriveMissingCleared event was not logged after replacing a drive in a degraded RAID volume

Enhancements

- o Supported the Microsoft UEFI CA 2023 signing.
 - Referred to a00156355en_us Advisory: [Microsoft Windows - Information About Windows UEFI CA 2023 Certificate](#)
- o DMTF PLDM Redfish Device Enablement enhancements
 - Added support for Redfish Certificates (GET).
 - Added support for Redfish Storage.SetControllerPassword.
 - Added support for Redfish Drive Control (POST/PATCH).
 - POST #Drive.Reset
 - ForceOff, ForceOn, and PowerCycle operations are supported.
 - ResetType@Redfish.AllowableValues[] populates ForceOff, ForceOn Or Powercycle depending on the DFC's SES Array element Status DevOff bit.
 - The link to Action Drive.Reset is not made available until the ongoing Drive.Reset Action takes effect on the slot.
 - DriveRemoved event will be logged when ForceOff is triggered.
 - DriveInserted event will be logged when ForceOn is triggered.
 - DriveRemoved and DriveInserted event will be logged when PowerCycle is triggered.
 - PATCH Drive[StatusIndicator]
 - OK and Fail StatusIndicators are allowed.
 - StorageDevice Message Registry 1.5.0 has been adopted. Applicable Redfish Conditions (GET) and Redfish alerts have been updated for the following MessageKeys:
 - DrivePredictedMediaLifeLow: This MessageKey and Redfish alert is populated when the SSDPercentageUsed is 95% or above.
 - VolumeRebuilding: Whenever rebuild or copyback starts on the volume.
 - VolumeReconfiguring: Whenever transformation starts on the volume.
 - Aligned ResetToDefaults.ResetAll and NVRAM Clear to MR932
 - After performing ResetToDefaults.ResetAll operation, controller will be placed in fault state and will not respond to any Redfish request. Reboot is required to bring the controller back online.
 - Aligned VolumeOffline and VolumeOfflineCleared Redfish Event handling to MR932
 - FW logs Redfish VolumeOffline always against the Invalid target ID (0xFF) when foreign config is present.
 - VolumeOfflineCleared is sent when there is no foreign config.
 - After importing the volume, VolumeOfflineCleared alert is logged with the Invalid target ID.
- o Added support to download snapdump through iLO
 - The feature is supported on iLO7 1.22 and later.
 - The latest 2 snapdumps (including on-demand and auto) will be captured if needed.
 - Storcli and MRSA shall be used to trigger on-demand snapdump.
- o Added support for mixing UBM10 and UBM11 backplanes in a Box.
- o Included the Serial Number in PCIe VPD Info.

Firmware Package - HPE NS204mff Boot Controller, HPE Gen12 Boot Controller NS204i-u, HPE Gen11 Boot Controller NS204i-u, NS204i-d and HPE Gen10 Plus Boot Controller NS204i-p, NS204i-d, NS204i-t, NS204i-r
 Version: 1.2.14.1034 (**Recommended**)
 Filename: HPE_NS204i_1.2.14.1034_A.fwpkg; HPE_NS204i_1.2.14.1034_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.

- o <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-84a4e0bb354f48eaad65cf9451>
- 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 LED presentation for drive failure

1. Fixed LED presentation for drive removal
2. Correct improper IML events under certain conditions.
3. Fixed an issue that drives might be incorrectly reported as failure intermittently.
4. Fixed incorrect volume capacity shown in the iLO storage page.
5. Correct the boot option name to avoid the change in boot ordering.

Enhancements

Improved the compatibility to some SSD models.

Firmware - Storage Fibre Channel

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

Version: 14.4.731.21 (**Recommended**)

Filename: PP14.4.731.21_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	14.4.731.21	14.4.731.21	14.4.731.20	14.4.718.0
HPE SN1720E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.4.731.21	14.4.731.21	14.4.731.20	14.4.718.0

Fixed the following:

- Garbled characters are observed in the System Utilities(F9) configuration screens with Japanese Environment when HPE Emulex Fibre Channel Host Bus Adapter is installed on ProLiant Gen11 and ProLiant Gen12 servers
- Unified Extensible Firmware Interface (UEFI) protocol driver does not complete the polling device; causing the UEFI diagnostics system board component test incomplete.

Added Following Enhancements:

- Add logic to detect Small Form-Factor Pluggable(SFP) is stuck holding Serial Clock Line(SCL) Low.
- Return a new state in Acquisition and Control Query Executive (ACQE) to indicate Small Form-Factor Pluggable(SFP) is non-responsive

Prerequisites

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

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

Fixes

Fixed the following:

- Garbled characters are observed in the System Utilities(F9) configuration screens with Japanese Environment when HPE Emulex Fibre Channel Host Bus Adapter is installed on ProLiant Gen11 and ProLiant Gen12 servers
- Unified Extensible Firmware Interface (UEFI) protocol driver does not complete the polling device; causing the UEFI diagnostics system board component test incomplete.

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	14.4.731.21	14.4.731.21	14.4.731.20	14.4.718.0
HPE SN1720E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.4.731.21	14.4.731.21	14.4.731.20	14.4.718.0

Added Following Enhancements:

- Add logic to detect Small Form-Factor Pluggable(SFP) is stuck holding Serial Clock Line(SCL) Low.
- Return a new state in Acquisition and Control Query Executive (ACQE) to indicate Small Form-Factor Pluggable(SFP) is non-responsive

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: 02.11.14 (**Recommended**)

Filename: mh021114.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	MPI FW	PEP FW	PEP SoftROM	PEP Brd Cfg 2P	PEP Brd Cfg 1P	FC Brd Cfg 2P	FC Brd Cfg 1P	PCIe Serdes	Preload FWA 2P	Preload FWA 1P
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.11.14	09.15.19	7.39	3.04.21	3.01.41	3.00.13	3.01.00	NA	3.07.02	NA	3.00.07	4.01.16	NA

HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.11.14	09.15.19	7.39	3.04.21	3.01.41	3.00.13	NA	3.02.00	NA	3.07.02	3.00.07	NA	4.05.07
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.11.14	09.15.19	7.39	3.04.21	3.01.41	3.00.13	3.01.00	NA	3.07.02	NA	3.00.07	4.01.16	NA
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.11.14	09.15.19	7.39	3.04.21	3.01.41	3.00.13	NA	3.02.00	NA	3.07.02	3.00.07	NA	4.05.07

Updated the validity of UEFI signature

Fixes

Updated the validity of UEFI signature

Enhancements

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	MPI FW	PEP FW	PEP SoftROM	PEP Brd Cfg 2P	PEP Brd Cfg 1P	FC Brd Cfg 2P	FC Brd Cfg 1P	PCIe Serdes	Preload FWA 2P	Preload FWA 1P
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.11.14	09.15.19	7.39	3.04.21	3.01.41	3.00.13	3.01.00	NA	3.07.02	NA	3.00.07	4.01.16	NA
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.11.14	09.15.19	7.39	3.04.21	3.01.41	3.00.13	NA	3.02.00	NA	3.07.02	3.00.07	NA	4.05.07
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.11.14	09.15.19	7.39	3.04.21	3.01.41	3.00.13	3.01.00	NA	3.07.02	NA	3.00.07	4.01.16	NA
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.11.14	09.15.19	7.39	3.04.21	3.01.41	3.00.13	NA	3.02.00	NA	3.07.02	3.00.07	NA	4.05.07

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 - Management

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Smart Storage Administrator (SSA) CLI Smart Component for ESXi 8.0 for Gen10/Gen10 Plus/Gen11 Controllers

Version: 2026.07.01 (**Recommended**)

Filename: cp072100.compsig; cp072100.zip

Important Note!

- o [Actual ESXi8.0 ssaccli version is 6.65.9.0](#)
- o [Actual ESXi9.0 ssaccli version is 6.65.11.0](#)
- o To support upgrades from ESXi 8.0 to ESXi 9.0, VMware requires the SSA CLI package version for ESXi 9.0 to be higher than the package version installed on ESXi 8.0. Therefore, the ESXi 9.0 package version is 6.65.11, while the internal SSA CLI version remains 6.65.9. This is expected behavior.

Enhancements

- o Added a new reboot reason indicator when a debug token is invalidated

Software - Storage Controller

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HPE MegaRAID Storage Administrator StorCLI for VMware8.0 (For Gen10P and Gen11 Controllers)

Version: 2026.09.01 (**Recommended**)

Filename: cp071622.compsig; cp071622.zip

Important Note!

- o Actual ESXi Version is 007.3811.0300

Fixes

- o Fixed security key configuration via file not accepting spaces or special characters in storcli.

Enhancements

- o Added the drive power state support.
 - o storcli /cx/ex show all

- storcli /cx set drivepowerstate=on|off|reset drives= <e:s|e:s-x|e:s-x,y>
- Added AutoConfig setting display to the storcli show all output.

Software - Storage Fibre Channel

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HPE QLogic Fibre Channel driver component for VMware vSphere 8.0

Version: 2026.03.01 **(Recommended)**

Filename: cp068091.compsig; cp068091.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 5.4.86.0

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

Software - System Management

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HPE Agentless Management Bundle for ESXi for Gen11 and above Servers

Version: 802.12.8.0 **(Recommended)**

Filename: amsdvComponent_802.12.8.0.11-1.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.

HPE Agentless Management Bundle Smart Component on ESXi for Gen11 and above Servers

Version: 2026.09.01 **(Recommended)**

Filename: cp072796.compsig; cp072796.zip

Prerequisites

For HPE servers with iLO 7 and above:

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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