

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 9.0 and 9.1

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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 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

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 9.1

Version: 2026.09.00 **(Recommended)**

Filename: cp072687.compsig; cp072687.zip

Important Note!

- This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.
- HPE recommends the *HPE Broadcom NetXtreme-E Firmware Version*, 238.1.169000 or later, for use with this driver.

Enhancements

- This product enhances diagnostics by allowing firmware crash dumps to be retrieved when the firmware is not operational. The Ethernet driver must be loaded.
- 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:

- HPE Ethernet 10Gb 2-port 535FLR-T Adapter
- HPE Ethernet 10Gb 2-port 535T Adapter
- HPE Ethernet 10Gb 2-port 537SFP+ Adapter
- HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter
- HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter
- HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter
- HPE Ethernet 10Gb 2-port SFP+ BCM57412 OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ BCM57412 Adapter
- HPE Ethernet 10Gb 2-port BaseT BCM57416 OCP3 Adapter
- HPE Ethernet 10Gb 2-port BaseT BCM57416 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 OCP3 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter
- Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE
- Broadcom BCM57608 Ethernet 100Gb 2-port QSFP112 Adapter for HPE
- Broadcom BCM57608 Ethernet 100Gb 2-port QSFP112 OCP3 Adapter for HPE
- Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 Dual Rate Adapter for HPE
- Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 OCP3 Dual Rate Adapter for HPE
- Broadcom BCM57412 Ethernet 10Gb 2-port BASE-T Adapter for HPE
- Broadcom BCM57412 Ethernet 10Gb 2-port BASE-T OCP3 Adapter for HPE

HPE Intel ixgben Driver for VMware vSphere 9.1

Version: 2026.09.00 (B) **(Recommended)**

Filename: cp073024.compsig; cp073024.zip

Important Note!

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

- HPE recommends the firmware provided in *HPE Intel Online Firmware Upgrade Utility for VMware*, version 3.31.0 or later, for use with this driver.
- HPE recommends the firmware provided in *Intel Firmware Package For E610-IT4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter*, version 1.60 or later, for use with this driver

Enhancements

- This product now supports HPE ProLiant DL525 Gen13 server.

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 9.1
Version: 2026.09.00 (B) **(Recommended)**
Filename: cp073007.compsig; cp073007.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 vibdepot.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 now supports HPE ProLiant DL525 Gen13 server.

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

Driver - Storage Controller

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HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 9.1
Version: 2026.09.01 **(Recommended)**
Filename: cp071644.compsig; cp071644.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 MR932i-p Controller Driver (64-bit) for vSphere 9.1
Version: 2026.09.01 **(Recommended)**
Filename: cp071448.compsig; cp071448.zip

Important Note!

- o Actual Version is 8.18.1.0.0.0

Fixes

- o Fixed a storcli2 crash that could occur when running the 'show events' command after drive hotplug on VMware.

Enhancements

- o Added an option in the Key Value management interface for issuing soft reset and diagnostic fault reset on VMware.
- o Added crypto library version tracking.
- o Improved device shutdown handling to differentiate driver unload from system shutdown/panic based on system state.
- o Improved controller time synchronization by automatically issuing a synchronization command one minute after driver startup and every 15 minutes thereafter by default.

Firmware - Network

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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

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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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/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_RTCC 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_00000000844

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.fwpkg; 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 GVM, 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.fwpkg; 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 Fibre Channel

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

Smart Storage Administrator (SSA) CLI Smart Component for ESXi 9.1 for Gen10/Gen10 Plus/Gen11 Controllers
Version: 2026.07.01 **(Recommended)**
Filename: cp072355.compsig; cp072355.zip

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Important Note!

- o Actual ESXi9.1 ssaccli version is 6.65.11.0
- o **Due to VMware upgrade constraints, the SSA CLI package version (6.65.11) differs from the internal version (6.65.9). This is expected behavior.**

Enhancements

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

Software - Storage Controller

HPE MegaRAID Storage Administrator StorCLI for VMware9.1 (For Gen10P and Gen11 Controllers)
Version: 2026.09.01 **(Recommended)**
Filename: cp071624.compsig; cp071624.zip

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

HPE MegaRAID Storage Administrator StorCLI for VMware9.1 (for MR932i-p Controller)
Version: 2026.09.01 **(Recommended)**
Filename: cp071453.compsig; cp071453.zip

Important Note!

Actual ESXi Version is 08.018.003.0014

Fixes

- o Fixed an issue where storcli2 displayed 'Controller is in unknown fault state' during firmware flash operations.
- o Fixed a storcli2 crash (segmentation fault) that occurred when showing all volumes after a volume was removed.
- o Fixed a core dump that could occur when running the 'reset phyerrorcounters' command in storcli2.
- o Fixed inconsistent volume strip size properties between storcli2 and MRSA.
- o Fixed displaying storage units as KB instead of KiB and incorrect Cachebypass size values.
- o Fixed an issue where enclosure sequence numbers were not populated or updated in storcli2.
- o Fixed an issue where storcli2 returned an error when querying drive clear progress.
- o Fixed incorrect output for 'Get rttddump' and 'show' commands when a media error was in progress.
- o Fixed an issue where storcli2 displayed incorrect volume information when the controller was in safe mode with pinned cache.
- o Fixed inconsistencies in '/cx show all' output for online capacity expansion rate representation.
- o Fixed truncated event log 'String' field for SnapDump delete operations.
- o Fixed an incorrect error message for the 'foreign delete' operation.

Enhancements

- o Added the ability to fetch NVMe drive telemetry logs via storcli2 using the 'show telemetrylogs' command.
- o Updated the energy pack type string from 'Supercap' to 'Supercapacitor' in storcli2 output.
- o Added display of 'Supported Download Minimum Chunk Size' for NVMe drives and enforced minchunkSize during NVMe firmware update.
- o Added battery PPID (Vendor Info) display support in StorCLI2 battery detailed info command.
- o Limited trailing zeros after the decimal point to a single zero for drive and volume size displays.
- o Added storcli2 commands for controlling debug token info (show, set, get).
- o Added the drive power state support.
 - o /cx/ex show all
 - o /cx set power=on|off|reset drives= <e:s|e:s-x|e:s-x,y>
- o Updated storcli2 drive insert event to include the SAS address for better PersistentID identification of previously known drives.
- o Added a help note in storcli2 warning that disabling physical drive temperature polling may cause adverse thermal conditions.

Software - Storage Fibre Channel

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HPE QLogic Fibre Channel driver component for VMware vSphere 9.1

Version: 2026.03.01 (**Recommended**)

Filename: cp070467.compsig; cp070467.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 9.1.

Prerequisites

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

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

Enhancements

Driver version 91.5.5.86.0

This driver is only supported on VMware ESXi 9.1

Supported Devices and Features

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

32Gb Fibre Channel Host Bus Adapter:

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

64Gb Fibre Channel Host Bus Adapter:

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

Software - System Management

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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

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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Update October 27 2026

