

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](#)

Gen11 SPP 2026.09.00.00 Release Notes for VMware ESXi 8.0 U3

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ROM Flash Firmware Package - HPE ProLiant DL110 Gen11 (U62) Servers Version: 3.00_08-20-2026 **(Recommended)**

Filename: U62_3.00_08_20_2026.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel IPU2026.3 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.230.0 (2.90_08_16_2026).

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

Deliverable Name:

HPE ProLiant DL110 Gen11 System ROM - U62

Release Version:

3.00_08-20-2026

Last Recommended or Critical Revision:

3.00_08-20-2026

Previous Revision:

2.94_06-25-2026

Firmware Dependencies:

None

Enhancements/New Features:

Added a new "Auto Enroll Policy" option under "System Configuration > RBSU > Server Security > Secure Boot Settings" that controls automatic enrollment of updated Secure Boot keys after a firmware update based on the configured policy. This related Redfish property is :

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

Problems Fixed:

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 Secure Boot key auto-enrollment might not be triggered after using "Reset All Keys to Platform Defaults" in RBSU with OEM Secure Boot customization enabled.

Addressed an issue where the Secure Boot Auto Enroll Policy setting might not be synchronized correctly between RBSU and Redfish interfaces.

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 deleting a Secure Boot signature via the Redfish API might fail.

Known Issues:

After the operating system configures the time zone, subsequent time zone changes made in UEFI System Utilities (RBSU) may not be retained after a system reboot.

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel IPU2026.3 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.230.0 (2.90_08_16_2026).

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 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 Secure Boot key auto-enrollment might not be triggered after using "Reset All Keys to Platform Defaults" in RBSU with OEM Secure Boot customization enabled.

Addressed an issue where the Secure Boot Auto Enroll Policy setting might not be synchronized correctly between RBSU and Redfish interfaces.

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

Addressed an issue where deleting a Secure Boot signature via the Redfish API might fail.

Known Issues:

After the operating system configures the time zone, subsequent time zone changes made in UEFI System Utilities (RBSU) may not be retained after a system reboot.

Enhancements

Added a new "Auto Enroll Policy" option under "System Configuration > RBSU > Server Security > Secure Boot Settings" that controls automatic enrollment of updated Secure Boot keys after a firmware update based on the configured policy. This related Redfish property is :

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

ROM Flash Firmware Package - HPE ProLiant DL320/ML110 Gen11 (U63) Servers

Version: 3.00_08-20-2026 (**Recommended**)

Filename: U63_3.00_08_20_2026.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel IPU2026.3 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.230.0 (2.90_08_16_2026).

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

Deliverable Name:

HPE ProLiant DL320 Gen11/ML110 Gen11 Servers System ROM - U63

Release Version:

3.00_08-20-2026

Last Recommended or Critical Revision:

3.00_08-20-2026

Previous Revision:

2.94_06-25-2026

Firmware Dependencies:

None

Enhancements/New Features:

Added a new "Auto Enroll Policy" option under "System Configuration > RBSU > Server Security > Secure Boot Settings" that controls automatic enrollment of updated Secure Boot keys after a firmware update based on the configured policy. This related Redfish property is :

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

Problems Fixed:

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 Secure Boot key auto-enrollment might not be triggered after using "Reset All Keys to Platform Defaults" in RBSU with OEM Secure Boot customization enabled.

Addressed an issue where the Secure Boot Auto Enroll Policy setting might not be synchronized correctly between RBSU and Redfish interfaces.

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

Addressed an issue where deleting a Secure Boot signature via the Redfish API might fail.

Known Issues:

After the operating system configures the time zone, subsequent time zone changes made in UEFI System Utilities (RBSU) may not be retained after a system reboot.

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel IPU2026.3 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.230.0 (2.90_08_16_2026).

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 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 Secure Boot key auto-enrollment might not be triggered after using "Reset All Keys to Platform Defaults" in RBSU with OEM Secure Boot customization enabled.

Addressed an issue where the Secure Boot Auto Enroll Policy setting might not be synchronized correctly between RBSU and Redfish interfaces.

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

Addressed an issue where deleting a Secure Boot signature via the Redfish API might fail.

Known Issues:

After the operating system configures the time zone, subsequent time zone changes made in UEFI System Utilities (RBSU) may not be retained after a system reboot.

Enhancements

Added a new "Auto Enroll Policy" option under "System Configuration > RBSU > Server Security > Secure Boot Settings" that controls automatic enrollment of updated Secure Boot keys after a firmware update based on the configured policy. This related Redfish property is :

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

ROM Flash Firmware Package - HPE Alletra 4110/Alletra 4120/ProLiant DL380a Gen11 (U58) Servers

Version: 3.00_08-20-2026 (**Recommended**)

Filename: U58_3.00_08_20_2026.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel IPU2026.3 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.230.0 (2.90_08_16_2026).

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

Deliverable Name:

HPE Alletra 4110/Alletra 4120/ProLiant DL380a Gen11 System ROM - U58

Release Version:

3.00_08-20-2026

Last Recommended or Critical Revision:

3.00_08-20-2026

Previous Revision:

2.94_06-25-2026

Firmware Dependencies:

None

Enhancements/New Features:

Added a new "Auto Enroll Policy" option under "System Configuration > RBSU > Server Security > Secure Boot Settings" that controls automatic enrollment of updated Secure Boot keys after a firmware update based on the configured policy. This related Redfish property is :

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

Problems Fixed:

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 Secure Boot key auto-enrollment might not be triggered after using "Reset All Keys to Platform Defaults" in RBSU with OEM Secure Boot customization enabled.

Addressed an issue where the Secure Boot Auto Enroll Policy setting might not be synchronized correctly between RBSU and Redfish interfaces.

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

Addressed an issue where deleting a Secure Boot signature via the Redfish API might fail.

Known Issues:

After the operating system configures the time zone, subsequent time zone changes made in UEFI System Utilities (RBSU) may not be retained after a system reboot.

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel IPU2026.3 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.230.0 (2.90_08_16_2026).

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 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 Secure Boot key auto-enrollment might not be triggered after using "Reset All Keys to Platform Defaults" in RBSU with OEM Secure Boot customization enabled.

Addressed an issue where the Secure Boot Auto Enroll Policy setting might not be synchronized correctly between RBSU and Redfish interfaces.

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

Addressed an issue where deleting a Secure Boot signature via the Redfish API might fail.

Known Issues:

After the operating system configures the time zone, subsequent time zone changes made in UEFI System Utilities (RBSU) may not be retained after a system reboot.

Enhancements

Added a new "Auto Enroll Policy" option under "System Configuration > RBSU > Server Security > Secure Boot Settings" that controls automatic enrollment of updated Secure Boot keys after a firmware update based on the configured policy. This related Redfish property is :

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

ROM Flash Firmware Package - HPE ProLiant DL20 Gen11/ML30 Gen11/MicroServer Gen11 (U65) Servers

Version: 2.50_06-25-2026 (**Recommended**)

Filename: U65_2.50_06_25_2026.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2026.3 guidance.

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.03.04.069.0 (2.40_01_12_2026).

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

Deliverable Name:

HPE DL20 Gen11/ML30 Gen11/MicroServer Gen11 System ROM - U65

Release Version:

2.50_06-25-2026

Last Recommended or Critical Revision:

2.50_06-25-2026

Previous Revision:

2.42_03-05-2026

Firmware Dependencies:

None

Enhancements/New Features:

Added support for the Intel Xeon E-2477P (6377P) processor on ML30 Gen11, DL20 Gen11, and MicroServer Gen11 platforms.

Added a new RBSU option for PCIe Resizable BAR (ReBAR) under PCIe Device Configuration, allowing compatible PCIe devices such as GPUs and accelerators to negotiate larger memory apertures for improved performance. Default: Disabled.

Added a new RBSU service option to configure the MMCFG Base Address (1GB / 1.5GB / 3GB), providing additional MMIO low resource space for systems with multiple PCIe devices such as LAN cards.

Added a new RBSU service option to enable or disable PCIe Unsupported Request (UR) error reporting, allowing administrators to mitigate non-fatal error storms in certain GPU and storage configurations.

Added a new RBSU service option for PROCHOT Ratio configuration, allowing administrators to control the minimum processor frequency ratio during power supply disconnect events.

Added a new BIOS Redfish Special Properties resource that dynamically adjusts RBSU setting visibility based on processor capabilities, improving HPE OneView profile compatibility for features such as Intel Speed Select Technology (SST).

Increased Asset Tag size from 32 bytes to 64 bytes.

Updated UEFI BIOS with new HPE branding.

Problems Fixed:

Resolved an issue where the Intel Xeon E-2477P (6377P) processor incorrectly reported a supported core count of 8 instead of 12.

Resolved an issue where the system could hang or assert when certain MMCFG configuration options were applied.

Resolved an issue where the system time zone could be unexpectedly reset to the default value during boot when a DST-adjusted offset validation failed.

Resolved an issue where a Red Screen of Death (RSOD) could occur during PCIe error handling under certain conditions.

Resolved an issue where an unexpected processor state could cause a system fault during POST after memory training, potentially resulting in an RSOD during certain diagnostic operations.

Resolved an issue where systems with many SPDMM-capable devices could experience unnecessary boot delays even when the SPDMM policy was disabled.

Resolved an issue where the deprecated ASIX USB NIC RBSU configuration knob was still visible. The knob has been removed as it is no longer required.

Resolved an issue where eMMC devices of 8GB or 16GB capacity were not handled correctly due to a UINT32 overflow condition.

Known Issues:

After the operating system configures the time zone, subsequent time zone changes made in UEFI System Utilities (RBSU) may not be retained after a system reboot.

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2026.3 guidance.

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.03.04.069.0 (2.40_01_12_2026).

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:

Resolved an issue where the Intel Xeon E-2477P (6377P) processor incorrectly reported a supported core count of 8 instead of 12.

Resolved an issue where the system could hang or assert when certain MMCFG configuration options were applied.

Resolved an issue where the system time zone could be unexpectedly reset to the default value during boot when a DST-adjusted offset validation failed.

Resolved an issue where a Red Screen of Death (RSOD) could occur during PCIe error handling under certain conditions.

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Resolved an issue where systems with many SPDMM-capable devices could experience unnecessary boot delays even when the SPDMM policy was disabled.

Resolved an issue where the deprecated ASIX USB NIC RBSU configuration knob was still visible. The knob has been removed as it is no longer required.

Resolved an issue where eMMC devices of 8GB or 16GB capacity were not handled correctly due to a UINT32 overflow condition.

Known Issues:

After the operating system configures the time zone, subsequent time zone changes made in UEFI System Utilities (RBSU) may not be retained after a system reboot.

Enhancements

Added support for the Intel Xeon E-2477P (6377P) processor on ML30 Gen11, DL20 Gen11, and MicroServer Gen11 platforms.

Added a new RBSU option for PCIe Resizable BAR (ReBAR) under PCIe Device Configuration, allowing compatible PCIe devices such as GPUs and accelerators to negotiate larger memory apertures for improved performance. Default: Disabled.

Added a new RBSU service option to configure the MMCFG Base Address (1GB / 1.5GB / 3GB), providing additional MMIO low resource space for systems with multiple PCIe devices such as LAN cards.

Added a new RBSU service option to enable or disable PCIe Unsupported Request (UR) error reporting, allowing administrators to mitigate non-fatal error storms in certain GPU and storage configurations.

Added a new RBSU service option for PROCHOT Ratio configuration, allowing administrators to control the minimum processor frequency ratio during power supply disconnect events.

Added a new BIOS Redfish Special Properties resource that dynamically adjusts RBSU setting visibility based on processor capabilities, improving HPE OneView profile compatibility for features such as Intel Speed Select Technology (SST).

Increased Asset Tag size from 32 bytes to 64 bytes.

Updated UEFI BIOS with new HPE branding.

ROM Flash Firmware Package - HPE ProLiant DL560 Gen11 (U59) Servers

Version: 3.00_08-20-2026 **(Recommended)**

Filename: U59_3.00_08_20_2026.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel IPU2026.3 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.230.0 (2.90_08_16_2026).

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

Deliverable Name:

HPE ProLiant DL560 Gen11 System ROM - U59

Release Version:

3.00_08-20-2026

Last Recommended or Critical Revision:

3.00_08-20-2026

Previous Revision:

2.94_06-25-2026

Firmware Dependencies:

None

Enhancements/New Features:

Added a new "Auto Enroll Policy" option under "System Configuration > RBSU > Server Security > Secure Boot Settings" that controls automatic enrollment of updated Secure Boot keys after a firmware update based on the configured policy. This related Redfish property is :

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

Problems Fixed:

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 Secure Boot key auto-enrollment might not be triggered after using "Reset All Keys to Platform Defaults" in RBSU with OEM Secure Boot customization enabled.

Addressed an issue where the Secure Boot Auto Enroll Policy setting might not be synchronized correctly between RBSU and Redfish interfaces.

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

Addressed an issue where deleting a Secure Boot signature via the Redfish API might fail.

Known Issues:

After the operating system configures the time zone, subsequent time zone changes made in UEFI System Utilities (RBSU) may not be retained after a system reboot.

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel IPU2026.3 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.230.0 (2.90_08_16_2026).

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 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 Secure Boot key auto-enrollment might not be triggered after using "Reset All Keys to Platform Defaults" in RBSU with OEM Secure Boot customization enabled.

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

Addressed an issue where deleting a Secure Boot signature via the Redfish API might fail.

Known Issues:

After the operating system configures the time zone, subsequent time zone changes made in UEFI System Utilities (RBSU) may not be retained after a system reboot.

Enhancements

Added a new "Auto Enroll Policy" option under "System Configuration > RBSU > Server Security > Secure Boot Settings" that controls automatic enrollment of updated Secure Boot keys after a firmware update based on the configured policy. This related Redfish property is :

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

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel IPU2026.3 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.230.0 (2.90_08_16_2026).

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

Deliverable Name:

HPE DL380 Gen11/ML350 Gen11/DL360 Gen11 System ROM - U54

Release Version:

3.00_08-20-2026

Last Recommended or Critical Revision:

3.00_08-20-2026

Previous Revision:

2.94_06-25-2026

Firmware Dependencies:

None

Enhancements/New Features:

Added a new "Auto Enroll Policy" option under "System Configuration > RBSU > Server Security > Secure Boot Settings" that controls automatic enrollment of updated Secure Boot keys after a firmware update based on the configured policy. This related Redfish property is :

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

Problems Fixed:

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 Secure Boot key auto-enrollment might not be triggered after using "Reset All Keys to Platform Defaults" in RBSU with OEM Secure Boot customization enabled.

Addressed an issue where the Secure Boot Auto Enroll Policy setting might not be synchronized correctly between RBSU and Redfish interfaces.

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 deleting a Secure Boot signature via the Redfish API might fail.

Known Issues:

After the operating system configures the time zone, subsequent time zone changes made in UEFI System Utilities (RBSU) may not be retained after a system reboot.

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel IPU2026.3 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.230.0 (2.90_08_16_2026).

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 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 Secure Boot key auto-enrollment might not be triggered after using "Reset All Keys to Platform Defaults" in RBSU with OEM Secure Boot customization enabled.

Addressed an issue where the Secure Boot Auto Enroll Policy setting might not be synchronized correctly between RBSU and Redfish interfaces.

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 deleting a Secure Boot signature via the Redfish API might fail.

Known Issues:

After the operating system configures the time zone, subsequent time zone changes made in UEFI System Utilities (RBSU) may not be retained after a system reboot.

Enhancements

Added a new "Auto Enroll Policy" option under "System Configuration > RBSU > Server Security > Secure Boot Settings" that controls automatic enrollment of updated Secure Boot keys after a firmware update based on the configured policy. This related Redfish property is :

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

Important Note!

Important Notes:

This revision of the System ROM includes AMD reference code GenoaPI 1.0.0.J for AMD 4th Generation EPYC processors.

This revision of the System ROM includes AMD reference code TurinPI 1.0.0.B for AMD 5th Generation EPYC processors.

Note: The Secure Boot dbx has been updated for CVE-2025-47827. Updating the System ROM alone will not update the Secure Boot dbx. Users must reset dbx to default, load manufacturing defaults, or enroll the updated dbx from Windows, Linux, RBSU, or Redfish directly.

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

Deliverable Name:

HPE DL145 Gen11 System ROM - A58

Release Version:

2.20_07-24-2026

Last Recommended or Critical Revision:

2.20_07-24-2026

Previous Revision:

2.11_06-11-2026

Firmware Dependencies:

None

Enhancements/New Features:

Added support for 12KB certificate upload via Redfish API for Secure Boot key management.

Added Secure Boot Keys Auto Enrollment after UEFI firmware update. A new RBSU option "Auto Enroll Policy" under Server Security > Secure Boot Settings allows the system to automatically enroll updated Secure Boot keys after a firmware update based on the configured policy (Auto, ForceEnable, or Disable).

Updated the default Secure Boot dbx for CVE-2025-47827.

Added dynamic BIOS special properties reporting via Redfish to accurately reflect processor-specific feature availability for RBSU settings.

Problems Fixed:

Addressed an issue where HPE Smart Memory DIMMs could be incorrectly identified as non-Smart Memory.

Addressed a security vulnerability in OpenSSL (CVE-2026-7383) where a signed integer overflow in ASN1_mbstring_ncopy() could lead to a heap buffer overflow under specific conditions.

Addressed a security vulnerability in Libpng (CVE-2026-34757) where a use-after-free condition could occur when passing a pointer returned by the PLTE, tRNS, or hIST getters back into the corresponding setters.

Addressed a security vulnerability in OpenSSL (CVE-2026-45447) involving a possible use-after-free condition in PKCS7_verify().

Addressed a security vulnerability in Libpng (CVE-2026-33416) where a dangling pointer could result in reads or writes to freed memory during palette operations.

Addressed an issue where iLO NMI could not generate a BSOD on Windows when Hyper-V was enabled on AMD Gen11 platforms.

Addressed an issue where VMware ESXi 9.1 installation could intermittently fail with a PSOD indicating inconsistent SVM MSR lock status across CPU cores.

Addressed an issue where the Tiered Memory Page Migration (TMPM) device was not generated in the ACPI SSDT table, preventing the MPDMA device from being recognized by the operating system.

Addressed an issue where the system could experience unnecessary boot halts on heavily loaded SPDM configurations when iLO discovery exceeded the BIOS timeout, even when SPDM policy was disabled.

Addressed an issue where the sysconfig shell command for enabledcoresperproc returned options inconsistent with the RBSU GUI.

Addressed an issue where the system timezone could be reset to default when DST-adjusted offset validation or stale mnemonic caused a validation failure during boot.

Addressed an issue where the progress bar was misaligned on the initial POST screen in Quiet Mode when a non-default OEM logo was configured.

Addressed an issue where visual noise appeared on OEM logo during POST screen display.

Addressed an issue where restoring defaults on high core count AMD Turin platforms (>=255 logical cores) could trigger an unnecessary full memory training cycle due to incorrect APIC mode handling.

Known Issues:

None

Fixes

Important Notes:

This revision of the System ROM includes AMD reference code GenoaPI 1.0.0.J for AMD 4th Generation EPYC processors.

This revision of the System ROM includes AMD reference code TurinPI 1.0.0.B for AMD 5th Generation EPYC processors.

Note: The Secure Boot dbx has been updated for CVE-2025-47827. Updating the System ROM alone will not update the Secure Boot dbx. Users must reset dbx to default, load manufacturing defaults, or enroll the updated dbx from Windows, Linux, RBSU, or Redfish directly.

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 HPE Smart Memory DIMMs could be incorrectly identified as non-Smart Memory.

Addressed a security vulnerability in OpenSSL (CVE-2026-7383) where a signed integer overflow in ASN1_mbstring_ncopy() could lead to a heap buffer overflow under specific conditions.

Addressed a security vulnerability in Libpng (CVE-2026-34757) where a use-after-free condition could occur when passing a pointer returned by the PLTE, tRNS, or hIST getters back into the corresponding setters.

Addressed a security vulnerability in OpenSSL (CVE-2026-45447) involving a possible use-after-free condition in PKCS7_verify().

Addressed a security vulnerability in Libpng (CVE-2026-33416) where a dangling pointer could result in reads or writes to freed memory during palette operations.

Addressed an issue where iLO NMI could not generate a BSOD on Windows when Hyper-V was enabled on AMD Gen11 platforms.

Addressed an issue where VMware ESXi 9.1 installation could intermittently fail with a PSOD indicating inconsistent SVM MSR lock status across CPU cores.

Addressed an issue where the Tiered Memory Page Migration (TMPM) device was not generated in the ACPI SSDT table, preventing the MPDMA device from being recognized by the operating system.

Addressed an issue where the system could experience unnecessary boot halts on heavily loaded SPDM configurations when iLO discovery exceeded the BIOS timeout, even when SPDM policy was disabled.

Addressed an issue where the sysconfig shell command for enabledcoresperproc returned options inconsistent with the RBSU GUI.

Addressed an issue where the system timezone could be reset to default when DST-adjusted offset validation or stale mnemonic caused a validation failure during boot.

Addressed an issue where the progress bar was misaligned on the initial POST screen in Quiet Mode when a non-default OEM logo was configured.

Addressed an issue where visual noise appeared on OEM logo during POST screen display.

Addressed an issue where restoring defaults on high core count AMD Turin platforms (>=255 logical cores) could trigger an unnecessary full memory training cycle due to incorrect APIC mode handling.

Known Issues:

None

Enhancements

Added support for 12KB certificate upload via Redfish API for Secure Boot key management.

Added Secure Boot Keys Auto Enrollment after UEFI firmware update. A new RBSU option "Auto Enroll Policy" under Server Security > Secure Boot Settings allows the system to automatically enroll updated Secure Boot keys after a firmware update based on the configured policy (Auto, ForceEnable, or Disable).

Updated the default Secure Boot dbx for CVE-2025-47827.

Added dynamic BIOS special properties reporting via Redfish to accurately reflect processor-specific feature availability for RBSU settings.

ROM Flash Universal Firmware Package - HPE ProLiant DL325/DL345 Gen11 (A56) Servers
Version: 3.22_08-20-2026 (**Recommended**)
Filename: A56_3.22_08_20_2026.fwpkg

Important Note!

Important Notes:

This revision of the System ROM includes AMD reference code GenoaPI 1.0.0.J for AMD 4th Generation EPYC processors. This revision of the System ROM includes AMD reference code TurinPI 1.0.0.B for AMD 5th Generation EPYC processors.

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

Deliverable Name:

HPE ProLiant DL325 Gen11/DL345 Gen11 System ROM - A56

Release Version:

3.22_08-20-2026

Last Recommended or Critical Revision:

3.22_08-20-2026

Previous Revision:

3.20_07-24-2026

Firmware Dependencies:

None

Enhancements/New Features:

Added multi-language translation support for newly added RBSU options.

Problems Fixed:

Resolved an issue where deleting or enrolling Secure Boot signatures via the Redfish API could fail.

Resolved an issue where Secure Boot key Auto Enrollment was not triggered after performing "Reset All Keys to Platform Defaults" through RBSU or the Redfish API when OEM Secure Boot customization was in use. The system now correctly re-enrolls the default Secure Boot keys after a reset.

Resolved an issue where the Secure Boot Auto Enroll Policy setting configured via the Redfish API was not correctly synchronized with the corresponding RBSU setting, and changes made in RBSU were not reflected in Redfish.

Resolved an issue where someILO functions may stop working until the next system boot after an iLO factory reset.

Resolved an issue where a SPDM device authentication may be skipped during boot.

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

- Addressed the following security vulnerabilities:

- CVE-2026-34180 (OpenSSL)

Known Issues:

None

Fixes

Important Notes:

This revision of the System ROM includes AMD reference code GenoaPI 1.0.0.J for AMD 4th Generation EPYC processors. This revision of the System ROM includes AMD reference code TurinPI 1.0.0.B for AMD 5th Generation EPYC processors.

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:

Resolved an issue where deleting or enrolling Secure Boot signatures via the Redfish API could fail.

Resolved an issue where Secure Boot key Auto Enrollment was not triggered after performing "Reset All Keys to Platform Defaults" through RBSU or the Redfish API when OEM Secure Boot customization was in use. The system now correctly re-enrolls the default Secure Boot keys after a reset.

Resolved an issue where the Secure Boot Auto Enroll Policy setting configured via the Redfish API was not correctly synchronized with the corresponding RBSU setting, and changes made in RBSU were not reflected in Redfish.

Resolved an issue where someILO functions may stop working until the next system boot after an iLO factory reset.

Resolved an issue where a SPDM device authentication may be skipped during boot.

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

Addressed the following security vulnerabilities:

- CVE-2026-34180 (OpenSSL)

Known Issues:

None

Enhancements

Added multi-language translation support for newly added RBSU options.

ROM Flash Universal Firmware Package - HPE ProLiant DL365/DL385 Gen11 (A55) Servers

Version: 3.22_08-20-2026 (**Recommended**)

Filename: A55_3.22_08_20_2026.fwpkg

Important Note!

Important Notes:

This revision of the System ROM includes AMD reference code GenoaPI 1.0.0.J for AMD 4th Generation EPYC processors. This revision of the System ROM includes AMD reference code TurinPI 1.0.0.B for AMD 5th Generation EPYC processors.

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

Deliverable Name:

HPE System ROM - A55

Release Version:

3.22_08-20-2026

Last Recommended or Critical Revision:

3.22_08-20-2026

Previous Revision:

3.20_07-24-2026

Firmware Dependencies:

None

Enhancements/New Features:

Added multi-language translation support for newly added RBSU options.

Problems Fixed:

Resolved an issue where deleting or enrolling Secure Boot signatures via the Redfish API could fail.

Resolved an issue where Secure Boot key Auto Enrollment was not triggered after performing "Reset All Keys to Platform Defaults" through RBSU or the Redfish API when OEM Secure Boot customization was in use. The system now correctly re-enrolls the default Secure Boot keys after a reset.

Resolved an issue where the Secure Boot Auto Enroll Policy setting configured via the Redfish API was not correctly synchronized with the corresponding RBSU setting, and changes made in RBSU were not reflected in Redfish.

Resolved an issue where someILO functions may stop working until the next system boot after an iLO factory reset.

Resolved an issue where a SPDH device authentication may be skipped during boot.

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

- Addressed the following security vulnerabilities:

- CVE-2026-34180 (OpenSSL)

Known Issues:

None

Fixes

Important Notes:

This revision of the System ROM includes AMD reference code GenoaPI 1.0.0.J for AMD 4th Generation EPYC processors. This revision of the System ROM includes AMD reference code TurinPI 1.0.0.B for AMD 5th Generation EPYC processors.

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:

Resolved an issue where deleting or enrolling Secure Boot signatures via the Redfish API could fail.

Resolved an issue where Secure Boot key Auto Enrollment was not triggered after performing "Reset All Keys to Platform Defaults" through RBSU or the Redfish API when OEM Secure Boot customization was in use. The system now correctly re-enrolls the default Secure Boot keys after a reset.

Resolved an issue where the Secure Boot Auto Enroll Policy setting configured via the Redfish API was not correctly synchronized with the corresponding RBSU setting, and changes made in RBSU were not reflected in Redfish.

Resolved an issue where someILO functions may stop working until the next system boot after an iLO factory reset.

Resolved an issue where a SPDH device authentication may be skipped during boot.

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

- Addressed the following security vulnerabilities:

- CVE-2026-34180 (OpenSSL)

Known Issues:

None

Enhancements

Added multi-language translation support for newly added RBSU options.

Driver - Lights-Out Management

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HPE iLO Native Driver for ESXi 8.0 and ESXi 9.0

Version: 10.9.1 (**Recommended**)

Filename: ilo-driver_800.10.9.1.4-1OEM.800.1.0.20613240.zip

Fixes

Implement MSI interrupt in the ilo driver to fix PSOD due to interrupt storm and to fix snmpwalk delays.

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 vibsdepot.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 igbn Driver for VMware vSphere 8.0
Version: 2025.05.00 **(Recommended)**
Filename: cp066052.compsig; cp066052.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 3.26.1 or later, for use with this driver.

Enhancements

This product enhanced the compatibility with firmware.

Supported Devices and Features

These drivers support the following network adapters:

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

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 vibsdepot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.
- o HPE recommends the firmware provided in *Intel Firmware Package For E810 Ethernet Adapter*, version 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

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 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 - Management

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ROM Flash Universal Firmware Package - HPE Edgeline Chassis Controller Firmware

Version: 2.1.0 (A) **(Recommended)**

Filename: ACCE_2.1.0s.fwpkg

Fixes

Addressed an issue where the main power status could appear inconsistent in certain situations, resulting in more reliable and accurate status reporting.

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,

- 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 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,

- 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 the adapter might not be detected after PCIe disable/enable cycles by coordinating hardware reset and GPIO access.

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 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,

- 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 the adapter might not be detected after PCIe disable/enable cycles by coordinating hardware reset and GPIO access.

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

Broadcom NX1 Online Firmware Upgrade Utility for VMware
Version: 1.45.0 (**Recommended**)
Filename: CP072707.compsig; CP072707.zip

Important Note!

This software package contains combo image v20.38.51 with the following firmware versions:

NIC	Boot Code Version	PXE Version	NCSI Version	UEFI Version
BCM 5719 1GbE 4p BASE-T Adptr	1.68	21.6.4	1.5.77	21.6.113
BCM 5719 1GbE 4p BASE-T OCP3 Adptr	1.68	21.6.4	1.5.77	21.6.113
BCM 5719 1GbE 4p BASE-T LOM Adptr	1.68	21.6.4	1.5.77	21.6.113
BCM 5720 1GbE 2p BASE-T LOM Adptr	1.46	21.6.4	1.5.77	21.6.113

Prerequisites

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

Fixes

- o This product fixes an issue where the MAC address of port 4 on BCM5719 adapters could change unexpectedly.

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:

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

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

Version: 4.20 (**Recommended**)

Filename: HPE_E810_2CQDA2_O_SEC_4p20_PLDMoMCTP_80017784.fwpkg

Important Note!

For Firmware installation, there is no OS and drivers dependency.

For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- Intel icea Driver for Microsoft Windows Server, version 1.12.164.0 or later
- Intel ice Drivers for Linux, version 1.11.14-1 or later
- Intel icen Driver for VMware, version 2023.09.00 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 addresses an issue where InterfaceEnabled property is read only and it can't patch this property
- This product addresses an issue where UMCE is seen

Enhancements

This product now supports ResetToDefault property(RDE Port Schema).

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 E810-2CQDA2 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: 4.20 (**Recommended**)

Filename: HPE_E810_CQDA2_4p20_PLDMoMCTP_80017785.fwpkg

Important Note!

For Firmware installation, there is no OS and drivers dependency.

For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- Intel icea Driver for Microsoft Windows Server, version 1.12.164.0 or later
- Intel ice Drivers for Linux, version 1.11.14-1 or later
- Intel icen Driver for VMware, version 2023.09.00 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 addresses an issue where InterfaceEnabled property is read only and it can't patch this property
- o This product addresses an issue where UMCE is seen

Enhancements

This product now supports ResetToDefault property(RDE Port Schema).

Supported Devices and Features

This product supports the following network adapters:

- o Intel E810-CQDA2 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,

- 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 Adapter for HPE

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

Version: 4.20 (**Recommended**)

Filename: HPE_E810_CQDA2_OCP_4p20_NCSlwPLDMoMCTP_80017783.fwpkg

Important Note!

For Firmware installation, there is no OS and drivers dependency.

For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- o Intel icea Driver for Microsoft Windows Server, version 1.12.164.0 or later
- o Intel ice Drivers for Linux, version 1.11.14-1 or later
- o Intel icen Driver for VMware, version 2023.09.00 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 addresses an issue where InterfaceEnabled property is read only and it can't patch this property
- o This product addresses an issue where UMCE is seen

Enhancements

This product now supports ResetToDefault property(RDE Port Schema).

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-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: 4.20 **(Recommended)**

Filename: HPE_E810_XXVDA2_SD_4p20_PLDMoMCTP_8001778C.fwpkg

Important Note!

For Firmware installation, there is no OS and drivers dependency.

For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- o Intel icea Driver for Microsoft Windows Server, version 1.12.164.0 or later
- o Intel ice Drivers for Linux, version 1.11.14-1 or later
- o Intel icen Driver for VMware, version 2023.09.00 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 addresses an issue where InterfaceEnabled property is read only and it can't patch this property
- o This product addresses an issue where UMCE is seen

Enhancements

This product now supports ResetToDefault property(RDE Port Schema).

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 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.

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

Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter
Version: 4.20 **(Recommended)**
Filename: HPE_E810_XXVDA2_SD_OCP_4p20_NCSlwPLDMoMCTP_80017787.fwpkg

Important Note!

For Firmware installation, there is no OS and drivers dependency.

For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- Intel icea Driver for Microsoft Windows Server, version 1.12.164.0 or later
- Intel ice Drivers for Linux, version 1.11.14-1 or later
- Intel icen Driver for VMware, version 2023.09.00 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 addresses an issue where InterfaceEnabled property is read only and it can't patch this property
- This product addresses an issue where UMCE is seen

Enhancements

This product now supports ResetToDefault property(RDE Port Schema).

Supported Devices and Features

This product supports the following network adapters:

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

Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter
Version: 5.00 **(Recommended)**
Filename: HPE_E810_XXVDA2_SD_OCP_5p0_NCSlwPLDMoMCTP_80021BD3.fwpkg; HPE_E810_XXVDA2_SD_OCP_5p0_NCSlwPLDMoMCTP_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,

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

Intel Firmware Package For E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter
Version: 4.20 **(Recommended)**
Filename: HPE_E810_XXVDA4_FH_4p20_PLDMoMCTP_80017789.fwpkg

Important Note!

For Firmware installation, there is no OS and drivers dependency.

For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- Intel icea Driver for Microsoft Windows Server, version 1.12.164.0 or later

- o Intel ice Drivers for Linux, version 1.11.14-1 or later
- o Intel icen Driver for VMware, version 2023.09.00 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 addresses an issue where InterfaceEnabled property is read only and it can't patch this property
- o This product addresses an issue where UMCE is seen

Enhancements

This product now supports ResetToDefault property(RDE Port Schema).

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 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: 4.20 (**Recommended**)

Filename: HPE_E810_XXV4_OCP_4p20_NCSlwPLDMoMCTP_80017788.fwpkg

Important Note!

For Firmware installation, there is no OS and drivers dependency.

For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- o Intel icea Driver for Microsoft Windows Server, version 1.12.164.0 or later
- o Intel ice Drivers for Linux, version 1.11.14-1 or later
- o Intel icen Driver for VMware, version 2023.09.00 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 addresses an issue where InterfaceEnabled property is read only and it can't patch this property
- o This product addresses an issue where UMCE is seen

Enhancements

This product now supports ResetToDefault property(RDE Port Schema).

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 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 E810-XXVDA4 Low Profile Ethernet 10/25Gb 4-port SFP28 Adapter (P63673-B21)
Version: 4.91 (**Recommended**)
Filename: E810_XXVDA4_LP_O_SEC_FW_1p7p10p1_NVM_4p91_PLDMoMCTP_0.03_8002147B.fwpkg;
E810_XXVDA4_LP_O_SEC_FW_1p7p10p1_NVM_4p91_PLDMoMCTP_0.03_8002147B.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 2.4.5-1 or later
- o Intel icen Driver for VMware, version 2026.03.00 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 an issue where the Shared NIC IP was not assigned for OCP Slot B network adapters

Supported Devices and Features

This product supports the following network adapters:

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

Intel Online Firmware Upgrade Utility for VMware
Version: 3.30.0 (**Recommended**)
Filename: CP072308.compsig; CP072308.zip

Important Note!

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

NIC	EEPROM/NVM Version	OROM Version	NVM Version
HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter	80010346	1.4002.0	9.57
HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter	80010350	1.4002.0	9.57
Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter	8000123F	1.4002.0	N/A
Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter	80001234	1.4002.0	N/A
Intel(R) I350 Gigabit Network Connection (2-port)	8000119C	1.4002.0	N/A
Intel(R) I350 Gigabit Network Connection (4-port)	8000119D	1.4002.0	N/A

The combo image v1.4002.0 includes: Boot Agent: 1GbE - v1.5.90, 10GbE - v2.4.59, 40GbE - v1.1.45 & UEFI Drivers: 1GbE - v9.9.16, 10GbE - v8.3.17, 40GbE - v5.0.52
Single NVM Version is new firmware format which represent an unified version in place of the previously used EEPROM/NVM Version or OROM version.

Prerequisites

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

Fixes

- o This product fixed UEFI preboot issues that could cause unexpected management interface resets, link initialization delays, or setup screen crashes on supported adapters.
- o This product fixed default MAC address restore behavior for supported 10GbE adapters.
- o This product fixed SMBus timing behavior to better meet SMBus 2.0 timing requirements.

Enhancements

- o This product added Secure Boot support using the Microsoft Option ROM UEFI CA 2023 certificate.
- o This product enhanced UEFI firmware management and firmware version reporting for supported 10GbE adapters.

Supported Devices and Features

This package supports the following network adapters:

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

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

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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 Ethernet 100Gb 1-port QSFP28 PCIe3 x16 MCX515A-CCAT Adapter : HPE part numbers P31246-B21 and P31246-H21

Version: 16.35.8008 **(Recommended)**

Filename: 16_35_8008-MCX515A-CCA_HPE_Ax.pldm.fwpkg; 16_35_8008-MCX515A-CCA_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 msftflint 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/connectx5fwrn/16358008Its/known-issues>

Prerequisites

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

Fixes

No fixes are included in version 16.35.8008.

Enhancements

New features and changes included in version 16.35.8008:

- o To align with updated Microsoft UEFI Secure Boot requirements and the upcoming end-of-life of the 2011 Certificate Authority (CA), a transition to the 2023 CA has been done.

Please also refer to the HPE advisory on Microsoft Windows UEFI CA 2023 certificate update: https://support.hpe.com/hpesc/public/docDisplay?docId=a00156355en_us&docLocale=en_US

Supported Devices and Features

This software package contains the following firmware versions:

NVIDIA Ethernet Only Adapters	Firmware Version	PSID
HPE Ethernet 100Gb 1-port QSFP28 PCIe3 x16 MCX515A-CCAT Adapter(P31246-B21 and P31246-H21)	16.35.8008	MT_0000000591

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 MCX653105A-HDAT Adapter : HPE part numbers P23664-B21 and P23664-H21

Version: 20.43.8004 **(Recommended)**

Filename: 20_43_8004-MCX653105A-HDA_HPE_Ax.pldm.fwpgk; 20_43_8004-MCX653105A-HDA_HPE_Ax.pldm.json

Important Note!

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

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

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

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6firmwarev20438004Its/known-issues>

Prerequisites

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

Fixes

No new fixes have been included in version 20.43.8004.

Enhancements

New features and changes included in version 20.43.8004:

- o To align with updated Microsoft UEFI Secure Boot requirements and the upcoming end-of-life of the 2011 Certificate Authority (CA), a transition to the 2023 CA has been done.

Note: When performing a firmware update of ConnectX and BlueField devices the new certificate is required for Secure Boot. To continue supporting Secure Boot, systems must be updated to recognize the "Microsoft Option ROM UEFI CA 2023".

Please also refer to the HPE advisory on Microsoft Windows UEFI CA 2023 certificate update: https://support.hpe.com/hpesc/public/docDisplay?docId=a00156355en_us&docLocale=en_US

Supported Devices and Features

This software package contains the following firmware versions:

NVIDIA VPI Adapter	Firmware Version	PSID
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HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 MCX653105A-HDAT Adapter (P23664-B21 and P23664-H21)	20.43.8004	MT_0000000451
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NVIDIA Firmware Package (FWPKG) for HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 OCP3 MCX653435A-HDAI Adapter : HPE part numbers P31323-B21 and P31323-H21

Version: 20.43.8004 (**Recommended**)

Filename: 20_43_8004-MCX653435A-HDA_HPE_Ax.pldm.fwpkg; 20_43_8004-MCX653435A-HDA_HPE_Ax.pldm.json

Important Note!

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

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

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

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6firmwarev20438004/known-issues>

Prerequisites

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

Fixes

No new fixes have been included in version 20.43.8004.

Enhancements

New features and changes included in version 20.43.8004:

- o To align with updated Microsoft UEFI Secure Boot requirements and the upcoming end-of-life of the 2011 Certificate Authority (CA), a transition to the 2023 CA has been done.

Note: When performing a firmware update of ConnectX and BlueField devices the new certificate is required for Secure Boot. To continue supporting Secure Boot, systems must be updated to recognize the "Microsoft Option ROM UEFI CA 2023".

Please also refer to the HPE advisory on Microsoft Windows UEFI CA 2023 certificate update: https://support.hpe.com/hpesc/public/docDisplay?docId=a00156355en_us&docLocale=en_US

Supported Devices and Features

This software package contains the following firmware versions:

NVIDIA VPI Adapter	Firmware Version	PSID
HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 OCP3 MCX653435A-HDAI Adapter (P31323-B21 and P31323-H21)	20.43.8004	MT_0000000592

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 MCX653106A-HDAT Adapter : HPE part numbers P31324-B21 and P31324-H21

Version: 20.43.8004 (**Recommended**)

Filename: 20_43_8004-MCX653106A-HDA_HPE_Ax.pldm.fwpkg; 20_43_8004-MCX653106A-HDA_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.

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

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

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

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6firmwarev20438004/its-known-issues>

Prerequisites

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

Fixes

No new fixes have been included in version 20.43.8004.

Enhancements

New features and changes included in version 20.43.8004:

- To align with updated Microsoft UEFI Secure Boot requirements and the upcoming end-of-life of the 2011 Certificate Authority (CA), a transition to the 2023 CA has been done.

Note: When performing a firmware update of ConnectX and BlueField devices the new certificate is required for Secure Boot. To continue supporting Secure Boot, systems must be updated to recognize the "Microsoft Option ROM UEFI CA 2023".

Please also refer to the HPE advisory on Microsoft Windows UEFI CA 2023 certificate update: https://support.hpe.com/hpsc/public/docDisplay?docId=a00156355en_us&docLocale=en_US

Supported Devices and Features

This software package contains the following firmware versions:

NVIDIA VPI Adapter	Firmware Version	PSID
HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 MCX653106A-HDAT Adapter(P31324-B21 and P31324-H21)	20.43.8004	MT_000000594

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 OCP3 MCX653436A-HDAI Adapter : HPE part numbers P31348-B21 and P31348-H21

Version: 20.43.8004 **(Recommended)**

Filename: 20_43_8004-MCX653436A-HDA_HPE_Ax.pldm.fwpkg; 20_43_8004-MCX653436A-HDA_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:

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

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

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

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

Port #2 - Ethernet				
Port #1 - InfiniBand	200GbE/50GbE	100GbE/25GbE	40GbE/10GbE	1GbE

HDR / HDR100	supported	supported	not supported	supported
EDR	supported	supported	not supported	supported
FDR	not supported	not supported	not supported	not supported
QDR/SDR	supported	supported	not supported	supported

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6firmwarev20438004/known-issues>

Prerequisites

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

Fixes

No new fixes have been included in version 20.43.8004.

Enhancements

New features and changes included in version 20.43.8004:

- To align with updated Microsoft UEFI Secure Boot requirements and the upcoming end-of-life of the 2011 Certificate Authority (CA), a transition to the 2023 CA has been done.

Note: When performing a firmware update of ConnectX and BlueField devices the new certificate is required for Secure Boot. To continue supporting Secure Boot, systems must be updated to recognize the "Microsoft Option ROM UEFI CA 2023".

Please also refer to the HPE advisory on Microsoft Windows UEFI CA 2023 certificate update: https://support.hpe.com/hpesc/public/docDisplay?docId=a00156355en_us&docLocale=en_US

Supported Devices and Features

This software package contains the following firmware versions:

NVIDIA VPI Adapter	Firmware Version	PSID
HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 OCP3 MCX653436A-HDAI Adapter (P31348-B21 and P31348-H21)	20.43.8004	MT_0000000593

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe4 x16 MCX653105A-ECAT Adapter : HPE part numbers P23665-B21 and P23665-H21

Version: 20.43.8004 **(Recommended)**

Filename: 20_43_8004-MCX653105A-ECA_HPE_Ax.pldm.fwpkg; 20_43_8004-MCX653105A-ECA_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:

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

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

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6firmwarev20438004/known-issues>

Prerequisites

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

Fixes

No new fixes have been included in version 20.43.8004.

Enhancements

New features and changes included in version 20.43.8004:

- To align with updated Microsoft UEFI Secure Boot requirements and the upcoming end-of-life of the 2011 Certificate Authority (CA), a transition to the 2023 CA has been done.

Note: When performing a firmware update of ConnectX and BlueField devices the new certificate is required for Secure Boot. To continue supporting Secure Boot, systems must be updated to recognize the "Microsoft Option ROM UEFI CA 2023".

Please also refer to the HPE advisory on Microsoft Windows UEFI CA 2023 certificate update: https://support.hpe.com/hpesc/public/docDisplay?docId=a00156355en_us&docLocale=en_US

Supported Devices and Features

This software package contains the following firmware versions:

NVIDIA VPI Adapter	Firmware Version	PSID
HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe4 x16 MCX653105A-ECAT Adapter (P23665-B21 and P23665-H21)	20.43.8004	MT_0000000452

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe4 x16 MCX653106A-ECAT Adapter : HPE part numbers P23666-B21 and P23666-H21

Version: 20.43.8004 **(Recommended)**

Filename: 20_43_8004-MCX653106A-ECA_HPE_Ax.pldm.fwpkg; 20_43_8004-MCX653106A-ECA_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:

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

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

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

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

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

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6firmwarev20438004/its/known-issues>

Prerequisites

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

Fixes

No new fixes have been included in version 20.43.8004.

Enhancements

New features and changes included in version 20.43.8004:

- o To align with updated Microsoft UEFI Secure Boot requirements and the upcoming end-of-life of the 2011 Certificate Authority (CA), a transition to the 2023 CA has been done.

Note: When performing a firmware update of ConnectX and BlueField devices the new certificate is required for Secure Boot. To continue supporting Secure Boot, systems must be updated to recognize the "Microsoft Option ROM UEFI CA 2023".

Please also refer to the HPE advisory on Microsoft Windows UEFI CA 2023 certificate update: https://support.hpe.com/hpesc/public/docDisplay?docId=a00156355en_us&docLocale=en_US

Supported Devices and Features

This software package contains the following firmware versions:

NVIDIA VPI Adapter	Firmware Version	PSID
HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe4 x16 MCX653106A-ECAT Adapter (P23666-B21 and P23666-H21)	20.43.8004	MT_0000000453

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 NDR/Ethernet 400Gb 1-port QSFP112 PCIe5 x16 MCX715105AS-WEAT Adapter : HPE part number S5R60A

Version: 28.49.1014 **(Recommended)**

Filename: 28_49_1014-MCX715105AS-WEAT_Ax.pldm.fwpkg; 28_49_1014-MCX715105AS-WEAT_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.

- vDPA doorbell resources were not released, which could cause failures when running other functionality after a vDPA FLR. Doorbell resources are now properly unlocked.
- 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.
- 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.
- 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.
- 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:

- 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.
- Added a new parameter to the ZTR_RTTCC algorithm to define the probe-packet timeout threshold.
- 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
S5R60A	HPE InfiniBand NDR/Ethernet 400Gb 1-port QSFP112 PCIe5 x16 MCX715105AS-WEAT Adapter (S5R60A)	MT_0000001244

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:

- NSM Get-Port-Network-Addresses returned an invalid format on B200/B300 HMC. It now follows the documented non-compact format.
- 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.
- 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.
- 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.
- ICM_RES_HW_DMFS_ENCAP_H_FW was allocated per GVM, preventing some RTTs from using it.
- vDPA doorbell resources were not released, which could cause failures when running other functionality after a vDPA FLR. Doorbell resources are now properly unlocked.
- 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.
- 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.
- 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.
- 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:

- 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.
- Added a new parameter to the ZTR_RTTCC algorithm to define the probe-packet timeout threshold.
- 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 GVM1, 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
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.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:

- NSM Get-Port-Network-Addresses returned an invalid format on B200/B300 HMC. It now follows the documented non-compact format.
- 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.
- 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.
- 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.
- ICM_RES_HW_DMFS_ENCAP_H_FW was allocated per GVMI, preventing some RTTs from using it.
- vDPA doorbell resources were not released, which could cause failures when running other functionality after a vDPA FLR. Doorbell resources are now properly unlocked.
- 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.
- 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.
- 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.
- 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:

- 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.
- Added a new parameter to the ZTR_RTTC algorithm to define the probe-packet timeout threshold.
- 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 MCX562A-ACAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE

Version: 16.35.8008 (**Recommended**)

Filename: 16_35_8008-MCX562A-ACA_Ax_Bx.pldm.fwpkg; 16_35_8008-MCX562A-ACA_Ax_Bx.pldm.json

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A list of known issues with this release is available at: <https://networking-docs.nvidia.com/connectx5fwrn/16358008/known-issues>

Prerequisites

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

Fixes

No fixes are included in version 16.35.8008.

Enhancements

New features and changes included in version 16.35.8008:

- To align with updated Microsoft UEFI Secure Boot requirements and the upcoming end-of-life of the 2011 Certificate Authority (CA), a transition to the 2023 CA has been done.

Please also refer to the HPE advisory on Microsoft Windows UEFI CA 2023 certificate update: https://support.hpe.com/hpesc/public/docDisplay?docId=a00156355en_us&docLocale=en_US

Supported Devices and Features

HPE Part Number	NVIDIA Ethernet Only Adapters	PSID
P10112-B21	Mellanox MCX562A-ACAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	MT_0000000241

NVIDIA Firmware Package (FWPKG) for Mellanox MCX623105AS-VDAT Ethernet 200Gb 1-port QSFP56 Adapter for HPE

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A list of known issues with this release is available at: <https://networking-docs.nvidia.com/connectx6dxfwrn/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

No new features or changes are included in version 22.49.1014.

Supported Devices and Features

HPE Part Number	Mellanox Ethernet Only Adapters	PSID
P10180-B21	Mellanox MCX623105AS-VDAT Ethernet 200Gb 1-port QSFP56 Adapter for HPE	MT_0000000435

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!

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A list of known issues with this release is available at: <https://networking-docs.nvidia.com/connectx6dxfwrn/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

NVIDIA Firmware Package(FWPKG) for HPE Ethernet 10/25Gb 2-port SFP28 MCX512F-ACHT Adapter
Version: 16.35.8008 **(Recommended)**
Filename: 16_35_8008-MCX512F-ACH_Ax_Bx.pldm.fwpkg; 16_35_8008-MCX512F-ACH_Ax_Bx.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 <https://www.nvidia.com/>, you are then leaving HPE.com. Please follow the instructions on <https://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 <https://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/connectx5fwrn/16358008lts/known-issues>

Prerequisites

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

Fixes

No fixes are included in version 16.35.8008.

Enhancements

New features and changes included in version 16.35.8008:

- To align with updated Microsoft UEFI Secure Boot requirements and the upcoming end-of-life of the 2011 Certificate Authority (CA), a transition to the 2023 CA has been done.

Please also refer to the HPE advisory on Microsoft Windows UEFI CA 2023 certificate update: https://support.hpe.com/hpesc/public/docDisplay?docId=a00156355en_us&docLocale=en_US

Supported Devices and Features

HPE Part Number	NVIDIA Ethernet Only Adapters	PSID
P13188-B21	HPE Ethernet 10/25Gb 2-port SFP28 MCX512F-ACHT Adapter	MT_0000000416

Firmware - Storage Controller Top

Controller Firmware Flash for ESXi8.0 and 9.0 - HPE MR216i-o Gen11 Tri Mode Controller
Version: 52.26.3.5487 (C) **(Recommended)**
Filename: CP070863.compsig; CP070863.zip

Enhancements

- ESXi9.1 support.

Controller Firmware Flash for ESXi8.0 and 9.0 - HPE MR216i-p Gen11 Tri Mode Controller
Version: 52.26.3.5487 (C) **(Recommended)**
Filename: CP070864.compsig; CP070864.zip

Enhancements

- ESXi9.1 support.

Controller Firmware Flash for ESXi8.0 and 9.0 - HPE MR408i-o Gen11 Tri Mode Controller
Version: 52.26.3.5487 (C) **(Recommended)**
Filename: CP070865.compsig; CP070865.zip

Enhancements

- ESXi9.1 support.

Controller Firmware Flash for ESXi8.0 and 9.0 - HPE MR416i-o Gen11 Tri Mode Controller
Version: 52.26.3.5487 (C) **(Recommended)**
Filename: CP070866.compsig; CP070866.zip

Enhancements

- ESXi9.1 support.

Controller Firmware Flash for ESXi8.0 and 9.0 - HPE MR416i-p Gen11 Tri Mode Controller
Version: 52.26.3.5487 (C) **(Recommended)**
Filename: CP070867.compsig; CP070867.zip

Enhancements

- ESXi9.1 support.

Firmware Package - HPE Expander Backplane Firmware for HPE Alletra 4140 servers

Version: 1.59 (B) **(Recommended)**

Filename: HPE_Alletra4140_BP_EXP_Gen11_1.59_B.fwpkg

Important Note!

1.24 is a initial version.

Enhancements

- Extend the installation time.

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!

- HPE Service Pack for ProLiant (SPP) provides a fully qualified recipe for specific firmware and drivers released within the same cycle, making it the primary recommended choice.
- It is strongly recommended to use controller firmware version 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
- **For Windows 2016 driver, please use 1010.84.0.1012 in below link:**

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

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

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

Fixes

- 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.
- 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.
- Fixed an issue that could cause reduced 4K random write performance in degraded RAID 60 configurations.
- Fixed an issue where the system could crash when hot-adding drives to failed RAID 50/60 volumes, improving stability during recovery operations.
- Fixed an issue where CBE remote encryption could remain enabled after being disabled in UEFI HII, ensuring settings are applied correctly.
- Fixed an issue where the system could fail to boot during device discovery due to invalid device identification data, improving boot reliability.
- Fixed an issue where encryption key mismatches could occur during master key updates, ensuring consistent and reliable encryption operations.
- 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.
- Fixed an issue where secure erase operations using ATA passthrough could fail to start, ensuring successful execution of secure erase commands.
- Fixed an issue where sanitize operations did not resume after a controller reboot, ensuring proper continuation of secure erase processes.
- Added support to display drive depopulation and restoration status in UEFI HII, providing better visibility into ongoing drive operations.
- 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:

- 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

- 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!

- This firmware version to be used on HPE MR216i-o 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

- 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 DFCis 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.
- 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-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!

- This firmware version to be used on HPE MR408i-o 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
- Fixed an issue where volume credation could fail when third-party locked drives are present in the system
- 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
 - ForceOff, ForceOn, and PowerCycle operations are supported.
 - ResetType@Redfish.AllowableValues[] populates ForceOff, ForceOn Or Powercycle depending on the DFCis 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.
- 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
- Fixed an issue where volume credation could fail when third-party locked drives are present in the system
- 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
 - 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.
- 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!

- This firmware version to be used on HPE MR416i-o 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

- 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 a0015635En_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 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 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

- 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
 - 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.
- 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 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.

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

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

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

Prerequisites

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

Fixes

Fixed LED presentation for drive failure

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

Enhancements

Improved the compatibility to some SSD models.

Firmware Package - HPE SR932i-p Gen10 Plus /SR416i-a Gen10 Plus/SR932i-p Gen11/SR416ie-m Gen11 Controllers
Version: 03.01.47.052 (**Recommended**)
Filename: HPE_SR416_SR932_Gen10P_Gen11_03.01.47.052_A.fwpkg

Important Note!

- HPE Service Pack for ProLiant (SPP) provides a fully qualified recipe for specific firmware and drivers released within the same cycle, making it the primary recommended choice.
- It is strongly recommended to use controller firmware version 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>

Fixes

- o Fixed an issue where logical drives could become stuck in a queued state after deleting an in-progress RPI operation, ensuring pending operations resume correctly.
- o Fixed an issue to improve RAID 6 migration reliability, ensuring volumes remain operational even if two drives are removed during migration.
- 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 a drive could be incorrectly marked as failed during boot while a sanitize operation was in progress, preventing unintended drive failures during initialization.
- 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 repeated LUN reset requests to NVMe drives could cause a controller lockup with code 0x1ABD, ensuring stable handling of reset operations.
- o Fixed an issue where RPI operations could take longer than expected on certain HPE drives, improving performance consistency.

Adding the CA notes as below:

- o 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.

https://support.hpe.com/hpesc/public/docDisplay?docId=a00156355en_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.
- 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.
- o Enhanced management of drives undergoing depopulation or restoration operations:
 - o Drives are reported as StandbyOffline during these operations
 - o System generates Redfish alerts when operations start (DriveOffline) and complete (DriveOfflineCleared)
 - o Certain operations (e.g., firmware update, secure erase, configuration changes) are temporarily blocked
 - o Management interfaces (Redfish/PLDM) provide consistent status and controlled responses

HPE D3600/D3700/D3610/D3710 12Gb SAS Disk Enclosure ROM Flash Component

Version: 5.04 (I) **(Recommended)**

Filename: D3000.fwpkg

Important Note!

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

Prerequisites

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

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

Fixes

The following fixes were incorporated in this version:

- o The Enabled-Clusters2D command now completes successfully when executed on a SATA drive within a D3610 disk enclosure for a NonStop solution.
- o The smart carrier, which is the drive case for SAS drives, now authenticates in the D3610/D3710 drive enclosure.
- o Added new 7-segment error codes E0 and E1 to report issues with Fan modules A and B, respectively. These new codes only apply to the D3610/D3710 and only display when running firmware 5.04.
- o If the storage enclosure processor within the I/O module fails, a hard reset (power down and then power up) is executed to ensure the processor comes back online.

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

Supported Devices and Features

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

- o HPE Smart Array SR P416ie-m Gen11 Controller
- o HPE Smart Array E208e-p Controller

Important Note!

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

Prerequisites

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

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

Fixes

The following fixes were incorporated in this version:

- o Code optimization to save memory repo.
- o TLB exception seen while doing esp reset when expander reset was in progress.
- o Added the psoc 8.93 binary in peripheral images, updated the reveille version numbers.
- o Added whole new Delta PS-pmbus code , Updated the ESP version number.

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

Supported Devices and Features

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

- o HPE Smart Array SR P416ie-m Gen11 Controller
- o HPE Smart Array E208e-p Controller

Online Firmware Flash for ESXi - HPE Gen11 Boot Controller NS204i-u, NS204i-d and HPE Gen10 Plus Boot Controller NS204i-p, NS204i-d
Version: 1.2.14.1018 (D) **(Recommended)**
Filename: CP070870.compsig; CP070870.zip

Enhancements

- o ESXi9.1 support.

Online ROM Flash Component for VMware ESXi - HPE Smart Array P816i-a,P416ie-m,P408i-p, P408e-p, P408i-a,P408i-c,P204i-c,E208i-p, E208e-p, E208i-a, P208i-c SR Gen10
Version: 5.61 (F) **(Recommended)**
Filename: CP070871.compsig; CP070871.zip

Important Note!

- o FWPKG support for PLDM firmware upgrades was introduced. As a transition point, both OS-dependent, offline smart components and OS-independent FWPKG for PLDM firmware package updates were made available. From firmware versions later than 5.61, OS-dependent smart and offline components can only be used on DL325 and DL385 Gen10 with AMD EPYC 7xx2 Series Processors servers due to limitations associated with the PLDM Firmware Package Upgrade. Ref customer advisory [a00119198en-us](#). For servers other than DL325 and DL385 Gen10 with AMD EPYC 7xx2 Series Processors, please use OS-independent FWPKG for PLDM firmware package updates after firmware version 5.61.

Enhancements

- o ESXi9.1 support.

Firmware - Storage Fibre Channel

HPE Firmware Flash for Emulex 32Gb and 64Gb Fibre Channel Host Bus Adapters
Version: 14.4.731.21 **(Recommended)**
Filename: P14.4.731.21_header.pldm.fwpkg

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Important Note!

This component is supported only on Gen11 ProLiant servers.

Release notes:

[Broadcom Release notes](#)

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.4.731.21	14.4.731.21	14.4.731.20	14.4.718.0
HPE SN1610E 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 SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.4.731.21	14.4.731.21	14.4.731.20	14.4.718.0
HPE SN1700E 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

Added Following Enhancements:

- Add logic to detect Small Form-Factor Pluggable (SFP) is non-responsive
- 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/>

The minimum version for adapter to support PLDM is 14.0.499.25

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

Enhancements

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.4.731.21	14.4.731.21	14.4.731.20	14.4.718.0
HPE SN1610E 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 SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.4.731.21	14.4.731.21	14.4.731.20	14.4.718.0
HPE SN1700E 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 non-responsive

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 Fibre Channel Host Bus Adapter:

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

64Gb Fibre Channel Host Bus Adapter:

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

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 Emulex Fibre Channel Host Bus Adapters for VMware vSphere 8.0

Version: 2022.08.01 **(Recommended)**

Filename: CP050072.compsig; CP050072.zip

Important Note!

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.25	14.0.499.25	14.0.499.2	14.0.490.0
HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.25	14.0.499.25	14.0.499.2	14.0.490.0
HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.0.499.25	14.0.499.25	14.0.499.2	14.0.490.0
HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.0.499.25	14.0.499.25	14.0.499.2	14.0.490.0

Prerequisites

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

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

Enhancements

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.25	14.0.499.25	14.0.499.2	14.0.490.0
HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.25	14.0.499.25	14.0.499.2	14.0.490.0
HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.0.499.25	14.0.499.25	14.0.499.2	14.0.490.0
HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.0.499.25	14.0.499.25	14.0.499.2	14.0.490.0

Supported Devices and Features

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

32Gb FC Adapter:

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

64Gb FC Adapter:

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

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

- Fixed the following:
- Updated UEFI signature validity

Fixes

Updated UEFI signature validity

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:**
- HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter
 - HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- 64Gb Fibre Channel Host Bus Adapter:**
- HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter
 - HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter

Software - Management

HPE iLO Driver Bundle Smart Component for ESXi 8.0 and ESXi 9.0
Version: 2026.03.00 **(Recommended)**
Filename: cp070019.compsig; cp070019.zip

Enhancements

Added support for vSphere 9.1 OS

Important Note!

- [Actual ESXi8.0 ssaccli version is 6.65.9.0](#)
- [Actual ESXi9.0 ssaccli version is 6.65.11.0](#)
- 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

- 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!

- Actual ESXi Version is 007.3811.0300

Fixes

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

Enhancements

- Added the drive power state support.
 - 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: 2026.04.01 **(Recommended)**

Filename: cp070502.compsig; cp070502.zip

Important Note!

This component is supported only on Gen11 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 5.4.86.0-1

This driver is only supported on VMware ESXi 8.0u3

Supported Devices and Features

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

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.

Integrated Smart Update Tools for VMware ESXi 8.0 and ESXi 9.0
Version: 800.6.9.0 **(Recommended)**
Filename: sutComponent_800.6.9.0.32-0-signed_component.zip

Important Note!

Integrated Smart Update Tools for ESXi 8.0 and ESXi 9.0 which provides support for firmware and driver updates via iLO Repository

Fixes

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

Enhancements

See the [ISUT Release Notes](#) for information about the enhancements in this release.

Get connected

hpe.com/info/getconnected

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

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