

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](#)

Gen10 SPP 2025.05.00.00 Release Notes for VMware ESXi 8.0

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ROM Flash Firmware Package - HPE Apollo 4200 Gen10/HPE ProLiant XL420 Gen10 (U39) Servers

Version: 3.50_04-17-2025 (**Recommended**)

Filename: U39_3.50_04_17_2025.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel IPU 2025.2 updates.

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.105.

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

Deliverable Name:

HPE ProLiant XL170/XL190 Gen10 System ROM - U38

Release Version:

3.50_04-17-2025

Last Recommended or Critical Revision:

3.50_04-17-2025

Previous Revision:

3.42_02-21-2025

Firmware Dependencies:

None

Enhancements/New Features:

Removed Expired SUSE and VMware Certificates.

Improved detection and interaction with certain PCIe cards during UEFI HBA discovery process.

Problems Fixed:

Addressed an issue where the system might have false IML message "Processor X, DIMM Y - This NVDIMM is NOT a HPE SmartMemory NVDIMM".

Addressed an issue where the system might trigger BitLocker Recovery after reboot.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel IPU 2025.2 updates.

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.105.

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

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the system might have false IML message "Processor X, DIMM Y - This NVDIMM is NOT a HPE SmartMemory NVDIMM".

Addressed an issue where the system might trigger BitLocker Recovery after reboot.

Known Issues:

None

Enhancements

Removed Expired SUSE and Vmware Certificates.

Improved detection and interaction with certain PCIe cards during UEFI HBA discovery process.

ROM Flash Firmware Package - HPE Apollo 4510 Gen10/HPE ProLiant XL450 Gen10 (U40) Servers
Version: 3.50_04-17-2025 (**Recommended**)
Filename: U40_3.50_04_17_2025.fwpkg

Important Note!**Important Notes:**

This version of the System ROM contains updates aligned with the Intel IPU 2025.2 updates.

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.105.

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

Deliverable Name:

HPE Apollo 4510 Gen10/HPE ProLiant XL450 Gen10 System ROM - U40

Release Version:

3.50_04-17-2025

Last Recommended or Critical Revision:

3.50_04-17-2025

Previous Revision:

3.42_02-21-2025

Firmware Dependencies:

None

Enhancements/New Features:

Removed Expired SUSE and Vmware Certificates.

Improved detection and interaction with certain PCIe cards during UEFI HBA discovery process.

Problems Fixed:

Addressed an issue where the system might have false IML message "Processor X, DIMM Y - This NVDIMM is NOT a HPE SmartMemory NVDIMM".

Addressed an issue where the system might trigger BitLocker Recovery after reboot.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel IPU 2025.2 updates.

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.105.

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

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the system might have false IML message "Processor X, DIMM Y - This NVDIMM is NOT a HPE SmartMemory NVDIMM".

Addressed an issue where the system might trigger BitLocker Recovery after reboot.

Known Issues:

None

Enhancements

Removed Expired SUSE and VMware Certificates.

Improved detection and interaction with certain PCIe cards during UEFI HBA discovery process.

ROM Flash Firmware Package - HPE ProLiant DL160 Gen10/DL180 Gen10 (U31) Servers

Version: 3.50_04-17-2025 (**Recommended**)

Filename: U31_3.50_04_17_2025.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel IPU 2025.2 updates.

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.105.

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

Deliverable Name:

HPE ProLiant DL160 Gen10/DL180 Gen10 System ROM - U31

Release Version:

3.50_04-17-2025

Last Recommended or Critical Revision:

3.50_04-17-2025

Previous Revision:

3.42_02-21-2025

Firmware Dependencies:

None

Enhancements/New Features:

Removed Expired SUSE and VMware Certificates.

Improved detection and interaction with certain PCIe cards during UEFI HBA discovery process.

Problems Fixed:

Addressed an issue where the system might have false IML message "Processor X, DIMM Y - This NVDIMM is NOT a HPE SmartMemory NVDIMM".

Addressed an issue where the system might trigger BitLocker Recovery after reboot.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel IPU 2025.2 updates.

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.105.

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

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the system might have false IML message "Processor X, DIMM Y - This NVDIMM is NOT a HPE SmartMemory NVDIMM".

Addressed an issue where the system might trigger BitLocker Recovery after reboot.

Known Issues:

None

Enhancements

Removed Expired SUSE and Vmware Certificates.

Improved detection and interaction with certain PCIe cards during UEFI HBA discovery process.

ROM Flash Firmware Package - HPE ProLiant DL20 Gen10 (U43) Servers
Version: 3.60_05-16-2025 (**Recommended**)
Filename: U43_3.60_05_16_2025.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Mehlow IPU 2025.2 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 05.01.05.005.

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 - U43

Release Version:

3.60_05-16-2025

Last Recommended or Critical Revision:

3.60_05-16-2025

Previous Revision:

3.52_02-21-2025

Firmware Dependencies:

None

Enhancements/New Features:

Updated multi-language translation.

Removed Expired SUSE and Vmware Certificates.

Problems Fixed:

Addressed an issue where the Name field of the Logical Drive under MR controller page might be missing or changed unintentionally after exiting and going back to the MR controller page.

Known Issues:

None

Fixes**Important Notes:**

This version of the System ROM contains updates aligned with the Intel Mehlow IPU 2025.2 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 05.01.05.005.

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

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the Name field of the Logical Drive under MR controller page might be missing or changed unintentionally after exiting and going back to the MR controller page.

Known Issues:

None

Enhancements

Updated multi-language translation.

Removed Expired SUSE and Vmware Certificates.

ROM Flash Firmware Package - HPE Proliant DL20 Gen10 Plus Servers
Version: 2.40_05-16-2025 (**Recommended**)
Filename: U60_2.40_05_16_2025.fwpkg

Important Note!**Important Notes:**

This version of the System ROM contains updates aligned with the Intel Tatlow IPU 2025.2 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.00.03.700 (2.30_01_07_2025).

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 - U60

Release Version:

2.40_05-16-2025

Last Recommended or Critical Revision:

2.40_05-16-2025

Previous Revision:

2.34_03-11-2025

Firmware Dependencies:

None

Enhancements/New Features:

Updated multi-language translation.

Problems Fixed:

Addressed an issue where the system may encounter RSOD and fail to update firmware while performing firmware update.

Addressed an issue where the Name field of the Logical Drive under MR controller page might be missing or changed unintentionally after exiting and going back to the MR controller page.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Tatlow IPU 2025.2 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.00.03.700 (2.30_01_07_2025).

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

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the system may encounter RSOD and fail to update firmware while performing firmware update.

Addressed an issue where the Name field of the Logical Drive under MR controller page might be missing or changed unintentionally after exiting and going back to the MR controller page.

Known Issues:

None

Enhancements

Updated multi-language translation.

ROM Flash Firmware Package - HPE ProLiant DL325 Gen10 (A41) Servers
Version: 3.50_03-21-2025 (**Recommended**)
Filename: A41_3.50_03_21_2025.fwpkg

Important Note!

Important Notes:

This revision of the System ROM includes AMD reference code RomePI 1.0.0.M for AMD 2nd Generation EPYC processors. This revision of the System ROM includes AMD reference code NaplesPI 1.0.0.Q for AMD 1st 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 Gen10 System ROM - A41

Release Version:

3.50_03-21-2025

Last Recommended or Critical Revision:

3.50_03-21-2025

Previous Revision:

3.42_02-21-2025

Firmware Dependencies:

None

Enhancements/New Features:

This revision of the System ROM includes AMD reference code RomePI 1.0.0.M for AMD 2nd Generation EPYC processors.

This revision of the System ROM includes AMD reference code NaplesPI 1.0.0.Q for AMD 1st Generation EPYC processors.

Problems Fixed:

None

Known Issues:

None

Enhancements**Important Notes:**

This revision of the System ROM includes AMD reference code RomePI 1.0.0.M for AMD 2nd Generation EPYC processors. This revision of the System ROM includes AMD reference code NaplesPI 1.0.0.Q for AMD 1st 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

Enhancements/New Features:

This revision of the System ROM includes AMD reference code RomePI 1.0.0.M for AMD 2nd Generation EPYC processors.

This revision of the System ROM includes AMD reference code NaplesPI 1.0.0.Q for AMD 1st Generation EPYC processors.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant DL360 Gen10 (U32) Servers

Version: 3.50_04-17-2025 (**Recommended**)

Filename: U32_3.50_04_17_2025.fwpkg

Important Note!**Important Notes:**

This version of the System ROM contains updates aligned with the Intel IPU 2025.2 updates.

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.105.

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

Deliverable Name:

HPE ProLiant DL360 Gen10 System ROM - U32

Release Version:

3.50_04-17-2025

Last Recommended or Critical Revision:

3.50_04-17-2025

Previous Revision:

3.42_02-21-2025

Firmware Dependencies:

None

Enhancements/New Features:

Removed Expired SUSE and VMware Certificates.

Improved detection and interaction with certain PCIe cards during UEFI HBA discovery process.

Problems Fixed:

Addressed an issue where the system might have false IML message "Processor X, DIMM Y - This NVDIMM is NOT a HPE SmartMemory NVDIMM".

Addressed an issue where the system might trigger BitLocker Recovery after reboot.

Known Issues:

None

Fixes**Important Notes:**

This version of the System ROM contains updates aligned with the Intel IPU 2025.2 updates.

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.105.

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

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the system might have false IML message "Processor X, DIMM Y - This NVDIMM is NOT a HPE SmartMemory NVDIMM".

Addressed an issue where the system might trigger BitLocker Recovery after reboot.

Known Issues:

None

Enhancements

Removed Expired SUSE and VMware Certificates.

Improved detection and interaction with certain PCIe cards during UEFI HBA discovery process.

ROM Flash Firmware Package - HPE ProLiant DL380 Gen10 (U30) Servers

Version: 3.50_04-17-2025 (**Recommended**)

Filename: U30_3.50_04_17_2025.fwpkg

Important Note!**Important Notes:**

This version of the System ROM contains updates aligned with the Intel IPU 2025.2 updates.

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.105.

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

Deliverable Name:

HPE DL380 Gen10 System ROM - U30

Release Version:

3.50_04-17-2025

Last Recommended or Critical Revision:

3.50_04-17-2025

Previous Revision:

3.42_02-21-2025

Firmware Dependencies:

None

Enhancements/New Features:

Removed Expired SUSE and VMware Certificates.

Improved detection and interaction with certain PCIe cards during UEFI HBA discovery process.

Problems Fixed:

Addressed an issue where the system might have false IML message "Processor X, DIMM Y - This NVDIMM is NOT a HPE SmartMemory NVDIMM".

Addressed an issue where the system might trigger BitLocker Recovery after reboot.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel IPU 2025.2 updates.

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.105.

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

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the system might have false IML message "Processor X, DIMM Y - This NVDIMM is NOT a HPE SmartMemory NVDIMM".

Addressed an issue where the system might trigger BitLocker Recovery after reboot.

Known Issues:

None

Enhancements

Removed Expired SUSE and VMware Certificates.

Improved detection and interaction with certain PCIe cards during UEFI HBA discovery process.

ROM Flash Firmware Package - HPE ProLiant DL385 Gen10 (A40) Servers

Version: 3.50_03-21-2025 (**Recommended**)

Filename: A40_3.50_03_21_2025.fwpkg

Important Note!

Important Notes:

This revision of the System ROM includes AMD reference code RomePI 1.0.0.M for AMD 2nd Generation EPYC processors. This revision of the System ROM includes AMD reference code NaplesPI 1.0.0.Q for AMD 1st 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 DL385 Gen10 System ROM - A40

Release Version:

3.50_03-21-2025

Last Recommended or Critical Revision:

3.50_03-21-2025

Previous Revision:

3.42_02-21-2025

Firmware Dependencies:

None

Enhancements/New Features:

This revision of the System ROM includes AMD reference code RomePI 1.0.0.M for AMD 2nd Generation EPYC processors.

This revision of the System ROM includes AMD reference code NaplesPI 1.0.0.Q for AMD 1st Generation EPYC processors.

Problems Fixed:

None

Known Issues:

None

Enhancements

Important Notes:

This revision of the System ROM includes AMD reference code RomePI 1.0.0.M for AMD 2nd Generation EPYC processors. This revision of the System ROM includes AMD reference code NaplesPI 1.0.0.Q for AMD 1st 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

Enhancements/New Features:

This revision of the System ROM includes AMD reference code RomePI 1.0.0.M for AMD 2nd Generation EPYC processors.

This revision of the System ROM includes AMD reference code NaplesPI 1.0.0.Q for AMD 1st Generation EPYC processors.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant DL560 Gen10/DL580 Gen10 (U34) Servers

Version: 3.50_04-17-2025 **(Recommended)**

Filename: U34_3.50_04_17_2025.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel IPU 2025.2 updates.

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.105.

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 Gen10/DL580 Gen10 System ROM - U34

Release Version:

3.50_04-17-2025

Last Recommended or Critical Revision:

3.50_04-17-2025

Previous Revision:

3.42_02-21-2025

Firmware Dependencies:

None

Enhancements/New Features:

Removed Expired SUSE and VMware Certificates.

Improved detection and interaction with certain PCIe cards during UEFI HBA discovery process.

Problems Fixed:

Addressed an issue where the system might have false IML message "Processor X, DIMM Y - This NVDIMM is NOT a HPE SmartMemory NVDIMM".

Addressed an issue where the system might trigger BitLocker Recovery after reboot.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel IPU 2025.2 updates.

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.105.

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

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the system might have false IML message "Processor X, DIMM Y - This NVDIMM is NOT a HPE SmartMemory NVDIMM".

Addressed an issue where the system might trigger BitLocker Recovery after reboot.

Known Issues:

None

Enhancements

Removed Expired SUSE and VMware Certificates.

Improved detection and interaction with certain PCIe cards during UEFI HBA discovery process.

ROM Flash Firmware Package - HPE ProLiant MicroServer Gen10 Plus v2 (U64) Servers

Version: 2.40_05-16-2025 (**Recommended**)

Filename: U64_2.40_05_16_2025.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Tatlow IPU 2025.2 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.00.03.700 (2.30_01_07_2025).

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

Deliverable Name:

HPE ProLiant MicroServer Gen10 Plus v2 System ROM - U64

Release Version:

2.40_05-16-2025

Last Recommended or Critical Revision:

2.40_05-16-2025

Previous Revision:

2.34_03-11-2025

Firmware Dependencies:

None

Enhancements/New Features:

Updated multi-language translation.

Problems Fixed:

Addressed an issue where the system may encounter RSOD and fail to update firmware while performing firmware update.

Addressed an issue where the Name field of the Logical Drive under MR controller page might be missing or changed unintentionally after exiting and going back to the MR controller page.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Tatlow IPU 2025.2 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.00.03.700 (2.30_01_07_2025).

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

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the system may encounter RSOD and fail to update firmware while performing firmware update.

Addressed an issue where the Name field of the Logical Drive under MR controller page might be missing or changed unintentionally after exiting and going back to the MR controller page.

Known Issues:

None

Enhancements

Updated multi-language translation.

ROM Flash Firmware Package - HPE ProLiant ML110 Gen10 (U33) Servers
Version: 3.50_04-17-2025 **(Recommended)**
Filename: U33_3.50_04_17_2025.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel IPU 2025.2 updates.

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.105.

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

Deliverable Name:

HPE ProLiant ML110 Gen10 System ROM - U33

Release Version:

3.50_04-17-2025

Last Recommended or Critical Revision:

3.50_04-17-2025

Previous Revision:

3.42_02-21-2025

Firmware Dependencies:

None

Enhancements/New Features:

Removed Expired SUSE and Vmware Certificates.

Improved detection and interaction with certain PCIe cards during UEFI HBA discovery process.

Problems Fixed:

Addressed an issue where the system might have false IML message "Processor X, DIMM Y - This NVDIMM is NOT a HPE SmartMemory NVDIMM".

Addressed an issue where the system might trigger BitLocker Recovery after reboot.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel IPU 2025.2 updates.

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.105.

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

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the system might have false IML message "Processor X, DIMM Y - This NVDIMM is NOT a HPE SmartMemory NVDIMM".

Addressed an issue where the system might trigger BitLocker Recovery after reboot.

Known Issues:

None

Enhancements

Removed Expired SUSE and VMware Certificates.

Improved detection and interaction with certain PCIe cards during UEFI HBA discovery process.

ROM Flash Firmware Package - HPE ProLiant ML30 Gen10 (U44) Servers

Version: 3.60_05-16-2025 (**Recommended**)

Filename: U44_3.60_05_16_2025.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Mehlow IPU 2025.2 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 05.01.05.005.

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

Deliverable Name:

HPE ProLiant ML30 Gen10 System ROM - U44

Release Version:

3.60_05-16-2025

Last Recommended or Critical Revision:

3.60_05-16-2025

Previous Revision:

3.52_02-21-2025

Firmware Dependencies:

None

Enhancements/New Features:

Updated multi-language translation.

Removed Expired SUSE and Vmware Certificates.

Problems Fixed:

Addressed an issue where the Name field of the Logical Drive under MR controller page might be missing or changed unintentionally after exiting and going back to the MR controller page.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Mehlow IPU 2025.2 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 05.01.05.005.

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

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the Name field of the Logical Drive under MR controller page might be missing or changed unintentionally after exiting and going back to the MR controller page.

Known Issues:

None

Enhancements

Updated multi-language translation.

Removed Expired SUSE and Vmware Certificates.

ROM Flash Firmware Package - HPE ProLiant ML30 Gen10 Plus Servers

Version: 2.40_05-16-2025 (**Recommended**)

Filename: U61_2.40_05_16_2025.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Tatlow IPU 2025.2 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.00.03.700 (2.30_01_07_2025).

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

Deliverable Name:

HPE ProLiant ML30 Gen10 Plus System ROM - U61

Release Version:

2.40_05-16-2025

Last Recommended or Critical Revision:

2.40_05-16-2025

Previous Revision:

2.34_03-11-2025

Firmware Dependencies:

None

Enhancements/New Features:

Updated multi-language translation.

Problems Fixed:

Addressed an issue where the system may encounter RSOD and fail to update firmware while performing firmware update.

Addressed an issue where the Name field of the Logical Drive under MR controller page might be missing or changed unintentionally after exiting and going back to the MR controller page.

Known Issues:

None

Fixes**Important Notes:**

This version of the System ROM contains updates aligned with the Intel Tatlow IPU 2025.2 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.00.03.700 (2.30_01_07_2025).

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

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the system may encounter RSOD and fail to update firmware while performing firmware update.

Addressed an issue where the Name field of the Logical Drive under MR controller page might be missing or changed unintentionally after exiting and going back to the MR controller page.

Known Issues:

None

Enhancements

Updated multi-language translation.

ROM Flash Firmware Package - HPE ProLiant ML350 Gen10 (U41) Servers
Version: 3.50_04-17-2025 (**Recommended**)
Filename: U41_3.50_04_17_2025.fwpkg

Important Note!**Important Notes:**

This version of the System ROM contains updates aligned with the Intel IPU 2025.2 updates.

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.105.

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

Deliverable Name:

HPE ProLiant ML350 Gen10 System ROM - U41

Release Version:

3.50_04-17-2025

Last Recommended or Critical Revision:

3.50_04-17-2025

Previous Revision:

3.42_02-21-2025

Firmware Dependencies:

None

Enhancements/New Features:

Removed Expired SUSE and VMware Certificates.

Improved detection and interaction with certain PCIe cards during UEFI HBA discovery process.

Problems Fixed:

Addressed an issue where the system might have false IML message "Processor X, DIMM Y - This NVDIMM is NOT a HPE SmartMemory NVDIMM".

Addressed an issue where the system might trigger BitLocker Recovery after reboot.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel IPU 2025.2 updates.

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.105.

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

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the system might have false IML message "Processor X, DIMM Y - This NVDIMM is NOT a HPE SmartMemory NVDIMM".

Addressed an issue where the system might trigger BitLocker Recovery after reboot.

Known Issues:

None

Enhancements

Removed Expired SUSE and VMware Certificates.

Improved detection and interaction with certain PCIe cards during UEFI HBA discovery process.

ROM Flash Universal Firmware Package - HPE ProLiant DL325/DL325 v2/DL345 Gen10 Plus (A43) Servers

Version: 3.72_05-16-2025 (**Optional**)

Filename: A43_3.72_05_16_2025.fwpkg

Important Note!

Important Notes:

This revision of the System ROM includes AMD reference code MilanPI 1.0.0.F for AMD 3rd Generation EPYC processors. This revision of the System ROM includes AMD reference code RomePI 1.0.0.M for AMD 2nd 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/DL325 v2/DL345 Gen10 Plus System ROM - A43

Release Version:

3.72_05-16-2025

Last Recommended or Critical Revision:

3.72_05-16-2025

Previous Revision:

3.70_03-21-2025

Firmware Dependencies:

None

Enhancements/New Features:

Updated multi-language translation.

Problems Fixed:

Addressed an issue where system may hang at POST when there are 8TB system memory installed with certain configuration.

Addressed an issue where the Name field of the Logical Drive under MR controller page might be missing or changed unintentionally after exiting and going back to the MR controller page.

Known Issues:

None

Fixes**Important Notes:**

This revision of the System ROM includes AMD reference code MilanPI 1.0.0.F for AMD 3rd Generation EPYC processors. This revision of the System ROM includes AMD reference code RomePI 1.0.0.M for AMD 2nd 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:

Addressed an issue where system may hang at POST when there are 8TB system memory installed with certain configuration.

Addressed an issue where the Name field of the Logical Drive under MR controller page might be missing or changed unintentionally after exiting and going back to the MR controller page.

Known Issues:

None

Enhancements

Updated multi-language translation.

ROM Flash Universal Firmware Package - HPE ProLiant DL360/DL380 Gen10 Plus (U46) Servers

Version: 2.40_04-18-2025 **(Recommended)**

Filename: U46_2.40_04_18_2025.fwpkg

Important Note!**Important Notes:**

This version of the System ROM contains updates aligned with the Intel IPU 2025.2 updates.

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.04.04.702 (2.30_01_06_2025).

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

Deliverable Name:

HPE DL360 Gen10 Plus/DL380 Gen10 Plus System ROM - U46

Release Version:

2.40_04-18-2025

Last Recommended or Critical Revision:

2.40_04-18-2025

Previous Revision:

2.32_02-21-2025

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where the system Intel PCH model name is unknown in RBSU System information.

Addressed an issue where the system might log into the wrong DIMM index in the Server Configuration Lock detection log after removing the system DIMM.

Addressed an issue where the system iLOrest might time out.

Addressed an issue where the system might RSOD when performing firmware update via Firmware Management Protocol.

Addressed an issue where CPU power readings displayed in iLO were unbalanced between two processors.

Known Issues:

None

Fixes**Important Notes:**

This version of the System ROM contains updates aligned with the Intel IPU 2025.2 updates.

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.04.04.702 (2.30_01_06_2025).

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

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the system Intel PCH model name is unknown in RBSU System information.

Addressed an issue where the system might log into the wrong DIMM index in the Server Configuration Lock detection log after removing the system DIMM.

Addressed an issue where the system iLOrest might time out.

Addressed an issue where the system might RSOD when performing firmware update via Firmware Management Protocol.

Addressed an issue where CPU power readings displayed in iLO were unbalanced between two processors.

Known Issues:

None

ROM Flash Universal Firmware Package - HPE ProLiant DL365/DL385/DL385 v2 Gen10 Plus (A42) Servers

Version: 3.72_05-16-2025 **(Optional)**

Filename: A42_3.72_05_16_2025.fwpkg

Important Note!**Important Notes:**

This revision of the System ROM includes AMD reference code MilanPI 1.0.0.F for AMD 3rd Generation EPYC processors. This revision of the System ROM includes AMD reference code RomePI 1.0.0.M for AMD 2nd 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 DL365 Gen10 Plus/DL385 Gen10 Plus/DL385 v2 Gen10 Plus System ROM - A42

Release Version:

3.72_05-16-2025

Last Recommended or Critical Revision:

3.72_05-16-2025

Previous Revision:

3.70_03-21-2025

Firmware Dependencies:

None

Enhancements/New Features:

Updated multi-language translation.

Problems Fixed:

Addressed an issue where system may hang at POST when there are 8TB system memory installed with certain configuration.

Addressed an issue where the Name field of the Logical Drive under MR controller page might be missing or changed unintentionally after exiting and going back to the MR controller page.

Known Issues:

None

Fixes

Important Notes:

This revision of the System ROM includes AMD reference code MilanPI 1.0.0.F for AMD 3rd Generation EPYC processors. This revision of the System ROM includes AMD reference code RomePI 1.0.0.M for AMD 2nd 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:

Addressed an issue where system may hang at POST when there are 8TB system memory installed with certain configuration.

Addressed an issue where the Name field of the Logical Drive under MR controller page might be missing or changed unintentionally after exiting and going back to the MR controller page.

Known Issues:

None

Enhancements

Updated multi-language translation.

Driver - Lights-Out Management

HPE iLO Native Driver for ESXi 8.0 and ESXi 9.0

Version: 10.9.0 **(Recommended)**

Filename: ilo-driver_800.10.9.0.17-10EM.800.1.0.20613240_24608328.zip

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Fixes

The product addressed a probabilistic PSOD when repeatedly doing the OS reboot.

Enhancements

- Add support for the new ESXi 9.0
 - Remove support for the ESXi 7.0.
-
-

Driver - Network

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HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0

Version: 2025.05.00 (**Recommended**)

Filename: cp066625.compsig; cp066625.zip

Important Note!

- This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.
- HPE recommends the *HPE Broadcom NetXtreme-E Firmware Version, 233.1.135007* or later, for use with this driver.

Fixes

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

Supported Devices and Features

This product supports the following network adapters:

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

HPE Intel i40en Driver for VMware vSphere 8.0

Version: 2024.11.00 (**Recommended**)

Filename: cp063149.compsig; cp063149.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 3.25.0 or later, for use with this driver.

Fixes

- This product addressed the multicast traffic handling on PF0.
- This product addressed the per-queue statistics for native mode.

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 1Gb 2-port 368FLR-MMT Adapter
- HPE Ethernet 1Gb 2-port 368i Adapter
- HPE Ethernet 1Gb 4-port 369i Adapter
- HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter
- HPE Ethernet 10Gb 2-port 562SFP+ Adapter
- HPE Ethernet 10Gb 2-port 563i Adapter
- HPE Ethernet 10Gb 2-port 568FLR-MMSFP+ Adapter
- HPE Ethernet 10Gb 2-port 568FLR-MMT Adapter
- HPE Ethernet 10Gb 2-port 568i Adapter
- HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter
- HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter

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:

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

HPE Intel ixgben Driver for VMware vSphere 8.0
Version: 2024.03.00 (**Recommended**)
Filename: cp058394.compsig; cp058394.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 3.23.0 or later, for use with this driver.

Enhancements

This product enhanced the compatibility with firmware of Fortville 9.4.

Supported Devices and Features

These drivers support the following network adapters:

- HPE Ethernet 10Gb 2-port 560SFP+ Adapter
- HPE Ethernet 10Gb 2-port 560FLR-SFP+ Adapter
- HPE Ethernet 10Gb 2-port 561T Adapter
- HPE Ethernet 10Gb 2-port 561FLR-T Adapter
- HPE Ethernet 10Gb 2-port 562T Adapter
- HPE Ethernet 10Gb 2-port 562FLR-T Adapter

HPE QLogic FastLinQ 10/25/50 GbE Multifunction Driver for VMware vSphere 8.0
Version: 2025.03.00 (**Recommended**)
Filename: cp064342.compsig; cp064342.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 as below for use with these drivers,

- HPE QLogic FastLinQ Firmware Package for Arrowhead adapters, version 8.65.23 or later.
- HPE QLogic FastLinQ Online Firmware Upgrade Utility for VMware, version 4.20.0 or later.

Fixes

This product fixes a PSOD issue which is caused by the memory leak.

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port 521T Adapter
- HPE Ethernet 10Gb 2-port 524SFP+ Adapter
- HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter
- HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Converged Network Adapter
- HPE StoreFabric CN1200R-T Converged Network Adapter
- HPE StoreFabric CN1300R Converged Network Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 QL41232HVCU OCP3 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 QL41232HLCU Adapter
- HPE Ethernet 10Gb 4-port SFP+ QL41134HLCU Adapter
- HPE Ethernet 10Gb 2-port BaseT QL41132HLRJ Adapter
- HPE Ethernet 10Gb 2-port BaseT QL41132HQRJ OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ QL41132HVCU OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ QL41132HLCU Adapter

HPE QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 8.0

Version: 2025.03.00 (**Recommended**)

Filename: cp064345.compsig; cp064345.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 QLogic NX2 Online Firmware Upgrade Utility for VMware*, version 1.37.0 or later, for use with this driver.

Fixes

- This product corrects an issue which fix TSO (TCP Segmentation Offload) issue when single segment is larger than pkt length.
- This product corrects an issue which PSOD while freeing DMA during 'esxcli qlfastlinq qcc' command execution.

Supported Devices and Features

These drivers support the following network adapters:

- HPE Ethernet 10Gb 2-port 530T Adapter
- HPE Ethernet 10Gb 2-port 530SFP+ Adapter
- HPE FlexFabric 10Gb 2-port 533FLR-T Adapter
- HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter
- HPE FlexFabric 10Gb 4-port 536FLR-T Adapter

Intel icen Driver for VMware vSphere 8.0

Version: 2025.05.00 (**Recommended**)

Filename: cp064886.compsig; cp064886.zip

Important Note!

- This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.
- HPE recommends the firmware provided in *Intel Firmware Package For E810 Ethernet Adapter*, version 4.71 or later, for use with these drivers.

Fixes

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

Supported Devices and Features

This product supports the following network adapters:

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

net-mst kernel module driver component for VMware ESXi 8.0 Update 3

Version: 2025.03.17 (**Recommended**)

Filename: cp052054.compsig; cp052054.zip

Important Note!

This component is intended to be used by HPE applications. It is a zip that contains the same driver deliverable available from the HPE vib depot.hpe.com webpage, plus an HPE specific CPXXXX.xml file.

Prerequisites

NA

Enhancements

NMST version 4.31.0.150

This version is supported on VMware ESXi 8.0 Update 3 only.

Supported Devices and Features

HPE Part Number	Device Name	PSID
764282-B21	HPE InfiniBand QDR/Ethernet 10Gb 2-port 544+M Adapter	HP_1350110023
764283-B21	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+M Adapter	HP_1360110017
764284-B21	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter	HP_1370110017
P24837-B21	HPE Ethernet 10/25Gb 2-port 642SFP28 Adapter	HPE0000000054
P11338-B21	HPE Ethernet 10Gb 2-port 548SFP+ Adapter	HP_1200111023
764285-B21	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter	HP_1380110017
764286-B21	HPE InfiniBand QDR/Ethernet 10Gb 2-port 544+FLR-QSFP Adapter	HP_1390110023
825110-B21	HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter	HP_2180110032
825111-B21	HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter	HP_2190110032
872726-B21	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	HPE0000000009
879482-B21	HPE InfiniBand FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter	HPE0000000022
868779-B21	HPE Synergy 6410C 25/50Gb Ethernet Adapter	HPE0000000006
779793-B21	HPE Ethernet 10Gb 2-port 546SFP+ Adapter	HP_1200111023
779799-B21	HPE Ethernet 10Gb 2-port 546FLR-SFP+ Adapter	HP_2240110004
817749-B21	HPE Ethernet 25Gb 2-port 640FLR-SFP28 Adapter	HP_2690110034
817753-B21	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	HP_2420110034
P21927-B21	HPE Ethernet 100Gb 2-port QSFP28 MCX516A-CCHT Adapter	MT_0000000417
P10112-B21	HPE Ethernet 10/25Gb 2-port SFP28 MCX562A-ACAI OCP3 Adapter	MT_0000000241
P13188-B21	HPE Ethernet 10/25Gb 2-port SFP28 MCX512F-ACHT Adapter	MT_0000000416
P11341-B21	HPE Ethernet 10Gb 2-port SFP+ MCX4621A-ACAB OCP3 Adapter	MT_0000000238
P21930-B21	HPE Ethernet 10Gb 2-port SFP+ MCX4121A-XCHT Adapter	MT_0000000414
874253-B21	HPE Ethernet 100Gb 1-port 842QSFP28 Adapter	HPE0000000014
P25960-B21	HPE Ethernet 100Gb 2-Port QSFP56 MCX623106AS-CDAT Adapter	MT_0000000437
P06154-B21	HPE InfiniBand HDR/Ethernet 200Gb 1-port 940QSFP56 x16 Adapter	HPE0000000034
P06250-B21	HPE InfiniBand HDR100/Ethernet 100Gb 1-port 940QSFP56 x16 Adapter	HPE0000000035
P06251-B21	HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 x16 Adapter	HPE0000000036

P23664-B21	HPE InfiniBand HDR/Ethernet 200Gb 1-port MCX653105A-HDAT QSFP56 x16 Adapter	MT_0000000451
P23665-B21	HPE InfiniBand HDR100/Ethernet 100Gb 1-port MCX653105A-ECAT QSFP56 x16 Adapter	MT_0000000452
P23666-B21	HPE InfiniBand HDR100/Ethernet 100Gb 2-port MCX653106A-ECAT QSFP56 x16 Adapter	MT_0000000453
P10180-B21	Mellanox MCX623105AS-VDAT Ethernet 200Gb 1-port QSFP56 Adapter for HPE	MT_0000000435
P31246-B21	HPE Ethernet 100Gb 1-port QSFP28 PCIe3 x16 MCX515A-CCAT Adapter	MT_0000000591
P31323-B21	HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 OCP3 MCX653435A-HDAI Adapter	MT_0000000592
P31348-B21	HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 OCP3 MCX653436A-HDAI Adapter	MT_0000000593
P31324-B21	HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 MCX653106A-HDAT Adapter	MT_0000000594
P42041-B21	Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	MT_0000000551
P42044-B21	Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	MT_0000000575

Driver - Storage Controller

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HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen10P and Gen11 controller (64-bit) Driver for vSphere 8.0

Version: 2025.01.01 (C) (**Recommended**)

Filename: cp067026.compsig; cp067026.zip

Important Note!

- Actual Version is 7.730.1.0.

Enhancements

- Support new Gen12 servers.

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

Version: 2025.02.01 (**Recommended**)

Filename: cp062918.compsig; cp062918.zip

Important Note!

- 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, plus an HPE specific CPXXXX.xml file.
- Actual ESXi8.0 driver version is 80.4704.0.108

Enhancements

- Improve the tolerance of error handling.
- Enhancement of DMA engine attributes to prevent PSOD.

Firmware - Network

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Broadcom Firmware Package for BCM5741x adapters

Version: 233.1.135.7 (**Recommended**)

Filename: bcm233.1.135.7.pup.fwpkg; bcm233.1.135.7.pup.json

Important Note!

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

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

- Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 233.0.148.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-233.0.152. or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.05.00 or later

Fixes

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

Supported Devices and Features

This product supports the following network adapters:

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

Broadcom Firmware Package for BCM5750x adapters

Version: 233.1.135.7 (**Recommended**)

Filename: bcm233.1.135.7_Thor.pup.fwpkg; bcm233.1.135.7_Thor.pup.json

Important Note!

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

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

- Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 233.0.148.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-233.0.152.2 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.05.00 or later

Fixes

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

Supported Devices and Features

This product supports the following network adapters:

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

Broadcom NX1 Online Firmware Upgrade Utility for VMware

Version: 1.42.0 (**Recommended**)

Filename: CP066652.compsig; CP066652.zip

Important Note!

This software package contains combo image v20.33.41 with the following firmware versions:

NIC	Boot Code Version	PXE Version	NCSI Version	UEFI Version
BCM 5719 1GbE 4p BASE-T Adptr	1.60	21.6.4	1.5.61	21.6.90
BCM 5719 1GbE 4p BASE-T OCP3 Adptr	1.60	21.6.4	1.5.61	21.6.90
BCM 5719 1GbE 4p BASE-T LOM Adptr	1.60	21.6.4	1.5.61	21.6.90
BCM 5720 1GbE 2p BASE-T LOM Adptr	1.43	21.6.4	1.5.61	21.6.90

Prerequisites

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

Fixes

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

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

HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for VMware
Version: 226.1.107000 (B) **(Recommended)**
Filename: CP065662.compsig; CP065662.zip

Important Note!

HPE recommends *HPE Broadcom NetXtreme-E Drivers for VMware*, versions 2023.09.00 or later, for use with this firmware.

This software package contains NVM Image version 226.1.107000 with the following firmware versions:

NIC	Bootcode Version	NCSI Version	MBA Version	UEFI Version	RoCE Version
HPE Ethernet 10Gb 2-port 535FLR-T Adapter	226.0.145.0	226.0.145.0	226.0.135.0	226.0.135.0	226.0.145.0
HPE Ethernet 10Gb 2-port 535T Adapter					
HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter					
HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter					
HPE Ethernet 10Gb 2-port 537SFP+ Adapter					
HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter					

Prerequisites

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

Fixes

- This product addressed the NC-SI passthrough algorithm for some FRU-reading commands from platform side.
- This product addressed the packet forwarding rule while receiving packet which is bigger than 9600 jumbo size.
- This product addressed the link failure under FreeBSD OS after changing link speed.
- This product addressed the failure of bringing up VFs of SRIOV when doing on and off switch.
- This product addressed adapter not responsive when work under heavy loading with 128 VMs.
- The product addressed status reporting of PLDM sensor monitoring with BMC.
- This product addressed the link-flap after link down or warm boot.

Supported Devices and Features

This product supports the following network adapters:

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

HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for VMware
Version: 226.1.107.0 (B) **(Recommended)**
Filename: CP065663.compsig; CP065663.zip

Important Note!

HPE recommends *HPE Broadcom NetXtreme-E Drivers for VMware*, versions 2023.09.00 or later, for use with this firmware.

This software package contains NVM Image version 226.1.107000 with the following firmware versions:

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NIC	Bootcode Version	NCSI Version	MBA Version	UEFI Version	RoCE Version
HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 OCP3 Adapter	226.0.145.0	226.0.145.0	226.0.135.0	226.0.135.0	226.0.145.0
HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter					
HPE Ethernet 10Gb 2-port BaseT BCM57416 OCP3 Adapter					
HPE Ethernet 10Gb 2-port BaseT BCM57416 Adapter					
HPE Ethernet 10Gb 2-port SFP+ BCM57412 OCP3 Adapter					
HPE Ethernet 10Gb 2-port SFP+ BCM57412 Adapter					
HPE Ethernet 10/25Gb 4-port SFP28 BCM57504 Adapter					
HPE Ethernet 10/25Gb 4-port SFP28 BCM57504 OCP3 Adapter					

Prerequisites

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

Fixes

- This product addressed device lost symptom after continuously ungraceful restart on BCM57414 OCP3 adapter.
- This product addressed some RDE pattern format for some LLDP properties.
- This product addressed the NC-SI passthrough with BMC when device is under idle mode.
- This product addressed new mechanism for loading factory default.

Enhancements

- This product enhanced the device self-diagnostic matrix and MAC verification.
- This product enhanced the link-speed calculation for internal variable.

Supported Devices and Features

This product supports the following network adapters:

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

HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for VMware

Version: 5.26.0 (**Recommended**)

Filename: CP066633.compsig; CP066633.zip

Important Note!

HPE recommends *HPE Broadcom NetXtreme-E Drivers for VMware*, versions 2025.05.00 or later, for use with this firmware.

This software package contains NVM Image version 233.1.135007 with the following firmware versions:

NIC	Bootcode Version	NCSI Version	MBA Version	UEFI Version	RoCE Version
HPE Ethernet 10Gb 2-port 535FLR-T Adapter					
HPE Ethernet 10Gb 2-port 535T Adapter					
HPE Ethernet 10/25Gb 2-port 631FLR-					

SFP28 Adapter	233.0.151.0	233.0.151.0	233.0.146.0	233.0.146.0	233.0.151.0
HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter					
HPE Ethernet 10Gb 2-port 537SFP+ Adapter					
HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter					

Prerequisites

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

Fixes

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

Supported Devices and Features

This product supports the following network adapters:

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

HPE Broadcom NX1 Online Firmware Upgrade Utility VMware for HPE ProLiant Gen10 server series Only.

Version: 1.42.0 (**Recommended**)

Filename: CP066649.compsig; CP066649.zip

Important Note!

- **This component ONLY support HPE ProLiant Gen10 server series.**

This software package contains combo image v20.33.41 with the following firmware versions:

NIC	Boot Code Version	PXE Version	NCSI Version	UEFI Version
HPE Ethernet 1Gb 2-port 330i Adapter (22BD)	2.10	21.6.4	1.5.61	21.6.90
HPE Ethernet 1Gb 4-port 331i Adapter (22BE) HPE Ethernet 1Gb 4-port 331FLR Adapter HPE Ethernet 1Gb 4-port 331T Adapter	1.60	21.6.4	1.5.61	21.6.90
HPE Ethernet 1Gb 2-port 332i Adapter (22E8) HPE Ethernet 1Gb 2-port 332T Adapter	1.43	21.6.4	1.5.61	21.6.90

For previous firmware versions prior to v20.19.51, please refer to the link : <https://www.hpe.com/global/swpublishing/MTX-4f19da2bceff4b73a31531d71e>

Prerequisites

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

Fixes

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

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 1Gb 2-port 330i Adapter (22BD)
- HPE Ethernet 1Gb 4-port 331i Adapter (22BE)
- HPE Ethernet 1Gb 4-port 331FLR Adapter

- HPE Ethernet 1Gb 4-port 331T Adapter
- HPE Ethernet 1Gb 2-port 332i Adapter (22E8)
- HPE Ethernet 1Gb 2-port 332T Adapter

HPE Intel Online Firmware Upgrade Utility VMware for HPE ProLiant Gen9 and Gen10 server series Only.
Version: 3.26.1 (**Recommended**)
Filename: CP065264.compsig; CP065264.zip

Important Note!

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

NIC	EEPROM/NVM Version	OROM Version	Single NVM Version
HPE Ethernet 1Gb 2-port 361i Adapter	8000119A	1.3772.0	N/A
HPE Ethernet 1Gb 2-port 361T Adapter	80001147	1.3772.0	N/A
HPE Ethernet 1Gb 4-port 366FLR Adapter	800011A1	1.3772.0	N/A
HPE Ethernet 1Gb 4-port 366T Adapter	800011F1	1.3772.0	N/A
HPE Ethernet 1Gb 2-port 368i Adapter	80003AC5	1.3772.0	N/A
HPE Ethernet 1Gb 2-port 368FLR-MMT Adapter	80003AC2	1.3772.0	N/A
HPE Ethernet 1Gb 4-port 369i Adapter	80003AC3	1.3772.0	N/A
HPE Ethernet 10Gb 2-port 568i Adapter	80003AC4	1.3772.0	N/A
HPE Ethernet 10Gb 2-port 568FLR-MMSFP+ Adapter	80003AC2	1.3772.0	N/A
HPE Ethernet 10Gb 2-port 568FLR-MMT Adapter	80003AC2	1.3772.0	N/A
HPE Ethernet 10Gb 2-port 563i Adapter	800035C0	1.1375.0	N/A
HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	8000F231	1.3772.0	11.1.7
HPE Ethernet 10Gb 2-port 562FLR-T Adapter	800016F1	1.3772.0	10.55.3
HPE Ethernet 10Gb 2-port 562SFP+ Adapter	8000F232	1.3772.0	11.1.7
HPE Ethernet 10Gb 2-port 562T Adapter	800016EF	1.3772.0	10.55.3

The combo image v1.3772.0 includes: Boot Agent: 1GbE - v1.5.90, 10GbE - v2.4.54, 40GbE - v1.1.45 & UEFI Drivers: 1GbE - v9.8.79, 10GbE - v8.2.76, 40GbE - v5.0.17

Single NVM Version is new firmware format which represent an unified version in place of the previously used EEPROM/NVM Version or OROM version.

This software package no longer contains Firmware for the below listed supported network adapters:

- HPE Ethernet 1Gb 2-port 363i Adapter
- HPE Ethernet 1Gb 4-port 366i Adapter
- HPE Ethernet 1Gb 4-port 366i Communication Board
- HPE Ethernet 10Gb 2-port 560FLR-SFP+ Adapter
- HPE Ethernet 10Gb 2-port 560SFP+ Adapter
- HPE Ethernet 10Gb 2-port 561FLR-T Adapter
- HPE Ethernet 10Gb 2-port 561T Adapter

- The latest firmware version of above adapters, please refer to the link : https://support.hpe.com/connect/s/software/details?language=en_US&softwareId=MTX_d7826493bb5a4aa69b4aa9a1d5&tab=releaseNotes

Prerequisites

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

Enhancements

This product enhanced the compatibility with the latest drivers.

Supported Devices and Features

This package supports the following network adapters:

- HPE Ethernet 1Gb 2-port 361i Adapter
- HPE Ethernet 1Gb 2-port 361T Adapter
- HPE Ethernet 1Gb 2-port 368FLR-MMT Adapter
- HPE Ethernet 1Gb 2-port 368i Adapter
- HPE Ethernet 1Gb 4-port 366FLR Adapter
- HPE Ethernet 1Gb 4-port 366T Adapter
- HPE Ethernet 1Gb 4-port 369i Adapter
- HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter
- HPE Ethernet 10Gb 2-port 562FLR-T Adapter
- HPE Ethernet 10Gb 2-port 562SFP+ Adapter
- HPE Ethernet 10Gb 2-port 562T Adapter
- HPE Ethernet 10Gb 2-port 568FLR-MMSFP+ Adapter
- HPE Ethernet 10Gb 2-port 568FLR-MMT Adapter
- HPE Ethernet 10Gb 2-port 568i Adapter
- HPE Ethernet 10Gb 2-port 563i Adapter

HPE QLogic FastLinQ Firmware Package for Arrowhead adapters

Version: 8.65.23 (**Recommended**)

Filename: ql_hp_ah_mbi_8.65.23_pldm.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,

- HPE QLogic FastLinQ 10/25/50 GbE Drivers for Linux, version 8.74.6.0-x or later
- HPE QLogic FastLinQ 10/25/50 GbE Drivers for Microsoft Windows Server x64 Editions, version 8.72.21.0 or later
- HPE QLogic FastLinQ 10/25/50 GbE Multifunction Drivers for VMware, version 2025.03.00 or later

This software package contains combo image v8.65.23. This combo image includes: Boot Code (MFW): 8.65.7.0, PXE: 2.0.19, and UEFI: 4.1.13.2.

Enhancements

This product enhanced the compatibility with drivers.

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port 521T Adapter
- HPE Ethernet 10Gb 2-port 524SFP+ Adapter
- HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter
- HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Adapter
- HPE StoreFabric CN1200R-T Converged Network Adapter
- HPE StoreFabric CN1300R Converged Network Adapter

HPE QLogic FastLinQ Online Firmware Upgrade Utility for VMware

Version: 4.20.0 (**Recommended**)

Filename: CP064261.compsig; CP064261.zip

Important Note!

HPE recommends *HPE QLogic FastLinQ 10/25/50GbE Multifunction Drivers for VMware*, versions 2025.03.00 or later, for use with this firmware.

This software package contains combo image version v8.65.23 includes:

- Boot Code (MFW): 8.65.7.0
- UEFI: 4.1.13.2
- PXE: 2.0.19

The users will only see the combo image versions in the interactive mode firmware update or while using HPSUM/SPP to update the

firmware on the supported adapters.

Prerequisites

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

Enhancements

This product enhanced the compatibility with drivers.

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port 521T Adapter
- HPE Ethernet 10Gb 2-port 524SFP+ Adapter
- HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter
- HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Converged Network Adapter
- HPE StoreFabric CN1200R-T Converged Network Adapter
- HPE StoreFabric CN1300R Converged Network Adapter

HPE QLogic FastLinQ Online Firmware Upgrade Utility for VMware

Version: 8.55.12 (B) **(Recommended)**

Filename: CP065660.compsig; CP065660.zip

Important Note!

HPE recommends *HPE QLogic FastLinQ 10/25/50GbE Multifunction Drivers for VMware*, versions 2021.04.05 or later, for use with this firmware.

This software package contains combo image version v8.55.12 includes:

- Boot Code (MFW): 8.55.21.0
- UEFI: 4.1.11.2
- PXE: 2.0.19

The users will only see the combo image versions in the interactive mode firmware update or while using HPSUM/SPP to update the firmware on the supported adapters.

Prerequisites

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

Fixes

This product addresses a pause flood condition on switch when attempting iPXE boot.

Enhancements

This product contains support PLDM firmware upgrade base improvements.

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port 521T Adapter
- HPE Ethernet 10Gb 2-port 524SFP+ Adapter
- HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter
- HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Converged Network Adapter
- HPE StoreFabric CN1200R-T Converged Network Adapter
- HPE StoreFabric CN1300R Converged Network Adapter

HPE QLogic NX2 Online Firmware Upgrade Utility for VMware

Version: 1.37.0 **(Recommended)**

Filename: CP064334.compsig; CP064334.zip

Important Note!

HPE recommends HPE QLogic NX2 10/20GbE Multifunction Drivers for VMware, versions 2025.03.00 or later, for use with this

firmware.

This software package contains combo image v7.19.27 with the following firmware versions:

NIC	Boot Code Version	PXE Version	UEFI Version	iSCSI Version	FCoE Version	CCM Version	L2 Version
HPE Ethernet 10Gb 2-port 530SFP+ Adapter HPE Ethernet 10Gb 2-port 530T Adapter	7.16.15	7.14.13	8.9.3	n/a	n/a	7.14.4	7.12.25
HPE Ethernet 10Gb 2-port 533FLR-T Adapter HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter HPE FlexFabric 10Gb 4-port 536FLR-T Adapter	7.16.15	7.14.13	8.9.3	7.14.0	7.14.3	7.14.4	7.12.25

Prerequisites

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

Enhancements

This product enhanced the compatibility with drivers.

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port 530SFP+ Adapter
- HPE Ethernet 10Gb 2-port 530T Adapter
- HPE Ethernet 10Gb 2-port 533FLR-T Adapter
- HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter
- HPE FlexFabric 10Gb 4-port 536FLR-T Adapter

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

Version: 4.71 (**Recommended**)

Filename: HPE_E810_2CQDA2_O_SEC_4p71_PLDMoMCTP_80020037.fwpkg;

HPE_E810_2CQDA2_O_SEC_4p71_PLDMoMCTP_80020037.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 ica Driver for Microsoft Windows Server, version 1.15.121.0 or later
- Intel ice Drivers for Linux, version 1.15.4-1 or later
- Intel icen Driver for VMware, version 2025.05.00 or later

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

Fixes

- This product fixes an issue where the speed may be downgraded to Gen3.
- This product fixes an issue where the Linux driver fails to load due to an EEPROM checksum error when the RDE:MACAddress property is patched.
- This product fixes an issue where the NIC is not detected after performing the RDE patch operation on NetworkDeviceFunctions settings.
- This product fixes an issue where the RDE: Setting property (AutoSpeedNegotiationEnabled) does not cause the property value to update, returning a code 400.
- This product fixes an issue where the RDE fails to perform the get operation when the adapter is configured as pass-through.
- This product fixes an issue where the RDE property (FlowControlStatus) does not report the correct status after the RDE property FlowControlConfiguration is set to Tx.
- This product fixes an issue where the RDE patch operation fails on the AutoSpeedNegotiationEnabled property.

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: 4.71 (**Recommended**)

Filename: HPE_E810_CQDA2_4p71_PLDMoMCTP_8002003C.fwpkg; HPE_E810_CQDA2_4p71_PLDMoMCTP_8002003C.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 ica Driver for Microsoft Windows Server, version 1.15.121.0 or later
- Intel ice Drivers for Linux, version 1.15.4-1 or later
- Intel icen Driver for VMware, version 2025.05.00 or later

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

Fixes

- This product fixes an issue where the speed may be downgraded to Gen3.
- This product fixes an issue where the Linux driver fails to load due to an EEPROM checksum error when the RDE:MACAddress property is patched.
- This product fixes an issue where the NIC is not detected after performing the RDE patch operation on NetworkDeviceFunctions settings.
- This product fixes an issue where the RDE: Setting property (AutoSpeedNegotiationEnabled) does not cause the property value to update, returning a code 400.
- This product fixes an issue where the RDE fails to perform the get operation when the adapter is configured as pass-through.
- This product fixes an issue where the RDE property (FlowControlStatus) does not report the correct status after the RDE property FlowControlConfiguration is set to Tx.
- This product fixes an issue where the RDE patch operation fails on the AutoSpeedNegotiationEnabled property.

Supported Devices and Features

This product supports the following network adapters:

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

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

Version: 4.71 (**Recommended**)

Filename: HPE_E810_CQDA2_OCP_4p71_NCSIwPLDMoMCTP_80020036.fwpkg;

HPE_E810_CQDA2_OCP_4p71_NCSIwPLDMoMCTP_80020036.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 ica Driver for Microsoft Windows Server, version 1.15.121.0 or later
- Intel ice Drivers for Linux, version 1.15.4-1 or later
- Intel icen Driver for VMware, version 2025.05.00 or later

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

Fixes

- This product fixes an issue where the speed may be downgraded to Gen3.
- This product fixes an issue where the Linux driver fails to load due to an EEPROM checksum error when the RDE:MACAddress property is patched.
- This product fixes an issue where the NIC is not detected after performing the RDE patch operation on NetworkDeviceFunctions settings.
- This product fixes an issue where the RDE: Setting property (AutoSpeedNegotiationEnabled) does not cause the property value to update, returning a code 400.
- This product fixes an issue where the RDE fails to perform the get operation when the adapter is configured as pass-through.
- This product fixes an issue where the RDE property (FlowControlStatus) does not report the correct status after the RDE

property FlowControlConfiguration is set to Tx.

- This product fixes an issue where the RDE patch operation fails on the AutoSpeedNegotiationEnabled property.

Supported Devices and Features

This product supports the following network adapters:

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

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

Version: 4.71 (**Recommended**)

Filename: HPE_E810_XXVDA2_SD_4p71_PLDMoMCTP_80020038.fwpkg; HPE_E810_XXVDA2_SD_4p71_PLDMoMCTP_80020038.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 ica Driver for Microsoft Windows Server, version 1.15.121.0 or later
- Intel ice Drivers for Linux, version 1.15.4-1 or later
- Intel icen Driver for VMware, version 2025.05.00 or later

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

Fixes

- This product fixes an issue where the speed may be downgraded to Gen3.
- This product fixes an issue where the Linux driver fails to load due to an EEPROM checksum error when the RDE:MACAddress property is patched.
- This product fixes an issue where the NIC is not detected after performing the RDE patch operation on NetworkDeviceFunctions settings.
- This product fixes an issue where the RDE: Setting property (AutoSpeedNegotiationEnabled) does not cause the property value to update, returning a code 400.
- This product fixes an issue where the RDE fails to perform the get operation when the adapter is configured as pass-through.
- This product fixes an issue where the RDE property (FlowControlStatus) does not report the correct status after the RDE property FlowControlConfiguration is set to Tx.
- This product fixes an issue where the RDE patch operation fails on the AutoSpeedNegotiationEnabled property.

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: 4.71 (**Recommended**)

Filename: HPE_E810_XXVDA2_SD_OCP_4p71_NCSIwPLDMoMCTP_8002003D.fwpkg;

HPE_E810_XXVDA2_SD_OCP_4p71_NCSIwPLDMoMCTP_8002003D.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 ica Driver for Microsoft Windows Server, version 1.15.121.0 or later
- Intel ice Drivers for Linux, version 1.15.4-1 or later
- Intel icen Driver for VMware, version 2025.05.00 or later

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

Fixes

- This product fixes an issue where the speed may be downgraded to Gen3.
- This product fixes an issue where the Linux driver fails to load due to an EEPROM checksum error when the RDE:MACAddress property is patched.

- This product fixes an issue where the NIC is not detected after performing the RDE patch operation on NetworkDeviceFunctions settings.
- This product fixes an issue where the RDE: Setting property (AutoSpeedNegotiationEnabled) does not cause the property value to update, returning a code 400.
- This product fixes an issue where the RDE fails to perform the get operation when the adapter is configured as pass-through.
- This product fixes an issue where the RDE property (FlowControlStatus) does not report the correct status after the RDE property FlowControlConfiguration is set to Tx.
- This product fixes an issue where the RDE patch operation fails on the AutoSpeedNegotiationEnabled property.

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: 4.71 (**Recommended**)

Filename: HPE_E810_XXVDA4_FH_4p71_PLDMoMCTP_8002003E.fwpkg; HPE_E810_XXVDA4_FH_4p71_PLDMoMCTP_8002003E.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 ica Driver for Microsoft Windows Server, version 1.15.121.0 or later
- Intel ice Drivers for Linux, version 1.15.4-1 or later
- Intel icen Driver for VMware, version 2025.05.00 or later

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

Fixes

- This product fixes an issue where the speed may be downgraded to Gen3.
- This product fixes an issue where the Linux driver fails to load due to an EEPROM checksum error when the RDE:MACAddress property is patched.
- This product fixes an issue where the NIC is not detected after performing the RDE patch operation on NetworkDeviceFunctions settings.
- This product fixes an issue where the RDE: Setting property (AutoSpeedNegotiationEnabled) does not cause the property value to update, returning a code 400.
- This product fixes an issue where the RDE fails to perform the get operation when the adapter is configured as pass-through.
- This product fixes an issue where the RDE property (FlowControlStatus) does not report the correct status after the RDE property FlowControlConfiguration is set to Tx.
- This product fixes an issue where the RDE patch operation fails on the AutoSpeedNegotiationEnabled property.

Supported Devices and Features

This product supports the following network adapters:

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

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

Version: 4.71 (**Recommended**)

Filename: HPE_E810_XXV4_OCP_4p71_NCSIwPLDMoMCTP_80020035.fwpkg;

HPE_E810_XXV4_OCP_4p71_NCSIwPLDMoMCTP_80020035.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 ica Driver for Microsoft Windows Server, version 1.15.121.0 or later
- Intel ice Drivers for Linux, version 1.15.4-1 or later
- Intel icen Driver for VMware, version 2025.05.00 or later

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

Fixes

- This product fixes an issue where the speed may be downgraded to Gen3.
- This product fixes an issue where the Linux driver fails to load due to an EEPROM checksum error when the RDE:MACAddress property is patched.
- This product fixes an issue where the NIC is not detected after performing the RDE patch operation on NetworkDeviceFunctions settings.
- This product fixes an issue where the RDE: Setting property (AutoSpeedNegotiationEnabled) does not cause the property value to update, returning a code 400.
- This product fixes an issue where the RDE fails to perform the get operation when the adapter is configured as pass-through.
- This product fixes an issue where the RDE property (FlowControlStatus) does not report the correct status after the RDE property FlowControlConfiguration is set to Tx.
- This product fixes an issue where the RDE patch operation fails on the AutoSpeedNegotiationEnabled property.

Supported Devices and Features

This product supports the following network adapters:

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

Intel Online Firmware Upgrade Utility for VMware
Version: 3.26.1 (**Recommended**)
Filename: CP065266.compsig; CP065266.zip

Important Note!

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

NIC	EEPROM/NVM Version	OROM Version	Single NVM Version	FW Version
HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter	8000F8E2	1.3755.0	N/A	9.53
HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter	8000F8EE	1.3755.0	N/A	9.53
Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter	8000123F	1.3755.0	N/A	N/A
Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter	80001234	1.3755.0	N/A	N/A
Intel(R) I350 Gigabit Network Connection (2-port)	8000119C	1.3755.0	N/A	N/A
Intel(R) I350 Gigabit Network Connection (4-port)	8000119D	1.3755.0	N/A	N/A

The combo image v1.3755.0 includes: Boot Agent: 1GbE - v1.5.90, 10GbE - v2.4.54, 40GbE - v1.1.45 & UEFI Drivers: 1GbE - v9.8.79, 10GbE - v8.2.76, 40GbE - v5.0.17

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.

Enhancements

This product enhanced the compatibility with the latest drivers.

Supported Devices and Features

This package supports the following network adapters:

- Intel(R) I350 Gigabit Network Connection (2-port)
- Intel(R) I350 Gigabit Network Connection (4-port)
- HPE Ethernet 1Gb 4-port BaseT I350-T4 Adapter
- HPE Ethernet 1Gb 4-port BaseT I350-T4 OCP3 Adapter

- HPE Ethernet 10Gb 2-port SFP+ X710-DA2 OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter

Marvell FastLinQ Firmware Package for Arrowhead adapters

Version: 8.65.21 (**Recommended**)

Filename: ql_ah_mbi_open_8.65.21_pldm.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,

- Marvell FastLinQ 10/25/50 GbE Drivers for Microsoft Windows Server x64 Editions, version 8.72.21.0 or later
- HPE QLogic FastLinQ 10/25/50 GbE Drivers for Linux, version 8.74.6.0-5 or later
- HPE QLogic FastLinQ 10/25/50 GbE Multifunction Drivers for VMware, version 2025.03.00 or later

Enhancements

This product enhanced the compatibility with drivers.

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10/25Gb 2-port SFP28 QL41232HLCU Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 QL41232HVCU OCP3 Adapter
- HPE Ethernet 10Gb 2-port BaseT QL41132HLRJ Adapter
- HPE Ethernet 10Gb 2-port BaseT QL41132HQRJ OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ QL41132HLCU Adapter
- HPE Ethernet 10Gb 2-port SFP+ QL41132HVCU OCP3 Adapter
- HPE Ethernet 10Gb 4-port SFP+ QL41134HLCU Adapter

Marvell FastLinQ Online Firmware Upgrade Utility for VMware

Version: 8.55.12 (B) (**Recommended**)

Filename: CP065661.compsig; CP065661.zip

Important Note!

This software package contains combo image v8.55.12. This combo image includes:

- PXE: 2.0.19
- Boot Code (MFW): 8.55.22.0
- UEFI: 6.1.8.2

Prerequisites

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

Fixes

- This product contains support PLDM firmware upgrade base improvements.
- This product addresses an overheat issue on the network adapters as below,

HPE Ethernet 10Gb 2-port BaseT QL41132HLRJ Adapter
HPE Ethernet 10Gb 2-port BaseT QL41132HQRJ OCP3 Adapter

Enhancements

This product now supported NPAR enabling option.

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10/25Gb 2-port SFP28 QL41232HVCU OCP3 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 QL41232HLCU Adapter
- HPE Ethernet 10Gb 4-port SFP+ QL41134HLCU Adapter
- HPE Ethernet 10Gb 2-port BaseT QL41132HLRJ Adapter
- HPE Ethernet 10Gb 2-port BaseT QL41132HQRJ OCP3 Adapter

- HP E Ethernet 10Gb 2-port SFP+ QL41132HVCU OCP3 Adapter
- HP E Ethernet 10Gb 2-port SFP+ QL41132HLCU Adapter

Mellanox Firmware Package (FWPKG) - Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE
 Version: 26.44.1036 **(Recommended)**
 Filename: 26_44_1036-MCX631102AS-ADA_Ax.pldm.fwpkg; 26_44_1036-MCX631102AS-ADA_Ax.pldm.json

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6lxfirmwarev26441036/known+issues>

Prerequisites

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

Fixes

The following issues have been fixed in version 26.44.1036:

- A reference counter issue that resulted in the firmware assertion 0x889f with CQ reference counter underflow to solve a race condition.

Enhancements

Security Hardening Enhancements: This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your device's firmware to this release to improve the firmware security and reliability of your device.

New features and changes included in version 26.44.1036:

- Enabled the get_pf_mac_address function for all available PFs.
- Enhanced traffic management of PTP packets to reduce their impact on regular network traffic.
- Added a new NV config (SM_DISABLE, default 0) which, when enabled, blocks SMP traffic that does not originate from the SM.
- Added the ability to set cable length as a parameter in the PFCC access register. The cable length is used in the calculation of RX lossless buffer parameters, including size, Xoff, and Xon thresholds.

Supported Devices and Features

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

Mellanox Firmware Package (FWPKG) - Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE
 Version: 26.44.1036 **(Recommended)**
 Filename: 26_44_1036-MCX631432AS-ADA_Ax.pldm.fwpkg; 26_44_1036-MCX631432AS-ADA_Ax.pldm.json

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6lxfirmwarev26441036/known+issues>

Prerequisites

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

Fixes

The following issues have been fixed in version 26.44.1036:

- A reference counter issue that resulted in the firmware assertion 0x889f with CQ reference counter underflow to solve a race condition.

Enhancements

Security Hardening Enhancements: This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your device's firmware to this release to improve the firmware security and reliability of your device.

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- Enabled the get_pf_mac_address function for all available PFs.
- Enhanced traffic management of PTP packets to reduce their impact on regular network traffic.
- Added a new NV config (SM_DISABLE, default 0) which, when enabled, blocks SMP traffic that does not originate from the SM.
- Added the ability to set cable length as a parameter in the PFCC access register. The cable length is used in the calculation of RX lossless buffer parameters, including size, Xoff, and Xon thresholds.

Supported Devices and Features

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

Mellanox Firmware Package (FWPKG) for Mellanox MCX562A-ACAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE
Version: 16.35.4030 (**Recommended**)
Filename: 16_35_4030-MCX562A-ACA_Ax_Bx.pldm.fwpkg

Important Note!

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx5firmwarev16354030/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

The following issues have been fixed in version 16.35.4030:

- VF FLR would get stuck when its PF triggered the FLR as well.
- Unexpected source UDP port appeared in RoCE packets when the firmware ignored a non-PF driver configuration for RoCE source UDP port control (as set in SET_HCA_CAP.sw_r_roce_src_udp_port).

Enhancements

Important : Security Hardening Enhancements - This release contains important reliability improvements and security hardening

enhancements. HPE recommends upgrading your device firmware to this version to improve the firmware security and reliability of your device.

New features and changes included in version 16.35.4030:

- o Added support for postponing QP timeout "retry exceeded" errors for traffic directed at specific destinations. This new capability prevents broken connections for destinations in downtime because of live migration.

Supported Devices and Features

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

Mellanox 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: 20.43.2026 **(Recommended)**
Filename: 20_43_2026-MCX653105A-HDA_HPE_Ax.pldm.fwpkg; 20_43_2026-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/connectx6firmwarev20432026/known+issues>

Prerequisites

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

Fixes

The following issues have been fixed in version 20.43.2026:

- o A linkup issue vs a 3rd party switch (BCM53405).
- o A reference counter issue that resulted in the firmware assertion 0x889f with CQ reference counter underflow to solve a race condition.

Enhancements

No changes or new features have been included in version 20.43.2026.

Supported Devices and Features

This software package contains the following firmware versions:

Mellanox InfiniBand 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)	20.43.2026	MT_0000000451
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Mellanox 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: 20.43.2026 (**Recommended**)
Filename: 20_43_2026-MCX653435A-HDA_HPE_Ax.pldm.fwpkg; 20_43_2026-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/connectx6firmwarev20432026/known+issues>

Prerequisites

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

Fixes

The following issues have been fixed in version 20.43.2026:

- o A linkup issue vs a 3rd party switch (BCM53405).
- o A reference counter issue that resulted in the firmware assertion 0x889f with CQ reference counter underflow to solve a race condition.

Enhancements

No changes or new features have been included in version 20.43.2026.

Supported Devices and Features

This software package contains the following firmware versions:

Mellanox InfiniBand Adapter	Firmware Version	PSID
HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 OCP3 MCX653435A-HDAI Adapter (P31323-B21 and P31323-H21)	20.43.2026	MT_0000000592

Mellanox 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: 20.43.2026 (**Recommended**)
Filename: 20_43_2026-MCX653106A-HDA_HPE_Ax.pldm.fwpkg; 20_43_2026-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/connectx6firmwarev20432026/known+issues>

Prerequisites

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

Fixes

The following issues have been fixed in version 20.43.2026:

- A linkup issue vs a 3rd party switch (BCM53405).
- A reference counter issue that resulted in the firmware assertion 0x889f with CQ reference counter underflow to solve a race condition.

Enhancements

No changes or new features have been included in version 20.43.2026.

Supported Devices and Features

This software package contains the following firmware versions:

Mellanox InfiniBand Adapter	Firmware Version	PSID
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HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 MCX653106A-HDAT Adapter(P31324-B21 and P31324-H21)	20.43.2026	MT_0000000594
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Mellanox 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: 20.43.2026 (**Recommended**)
Filename: 20_43_2026-MCX653436A-HDA_HPE_Ax.pldm.fwpkg; 20_43_2026-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:

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/connectx6firmwarev20432026ts/known+issues>

Prerequisites

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

Fixes

The following issues have been fixed in version 20.43.2026:

- A linkup issue vs a 3rd party switch (BCM53405).
- A reference counter issue that resulted in the firmware assertion 0x889f with CQ reference counter underflow to solve a race condition.

Enhancements

No changes or new features have been included in version 20.43.2026.

Supported Devices and Features

This software package contains the following firmware versions:

Mellanox InfiniBand Adapter	Firmware Version	PSID
HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 OCP3 MCX653436A-HDAI Adapter (P31348-B21 and P31348-H21)	20.43.2026	MT_0000000593

Mellanox 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: 20.43.2026 **(Recommended)**

Filename: 20_43_2026-MCX653105A-ECA_HPE_Ax.pldm.fwpkg; 20_43_2026-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:

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/connectx6firmwarev20432026lts/known+issues>

Prerequisites

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

Fixes

The following issues have been fixed in version 20.43.2026:

- A linkup issue vs a 3rd party switch (BCM53405).
- A reference counter issue that resulted in the firmware assertion 0x889f with CQ reference counter underflow to solve a race condition.

Enhancements

No changes or new features have been included in version 20.43.2026.

Supported Devices and Features

This software package contains the following firmware versions:

Mellanox InifiniBand Adapter	Firmware	PSID
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	Version	
HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe4 x16 MCX653105A-ECAT Adapter (P23665-B21 and P23665-H21)	20.43.2026	MT_0000000452

Mellanox 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: 20.43.2026 **(Recommended)**
Filename: 20_43_2026-MCX653106A-ECA_HPE_Ax.pldm.fwpkg; 20_43_2026-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:

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
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/connectx6firmwarev20432026its/known+issues>

Prerequisites

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

Fixes

The following issues have been fixed in version 20.43.2026:

- A linkup issue vs a 3rd party switch (BCM53405).
- A reference counter issue that resulted in the firmware assertion 0x889f with CQ reference counter underflow to solve a race condition.

Enhancements

No changes or new features have been included in version 20.43.2026.

Supported Devices and Features

This software package contains the following firmware versions:

Mellanox InfiniBand Adapter	Firmware Version	PSID
HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe4 x16 MCX653106A-ECAT Adapter (P23666-B21 and P23666-H21)	20.43.2026	MT_0000000453

Mellanox Firmware Package (FWPKG) for Mellanox MCX623105AS-VDAT Ethernet 200Gb 1-port QSFP56 Adapter for HPE
Version: 22.44.1036 **(Recommended)**

Filename: 22_44_1036-MCX623105AS-VDA_Ax.pldm.fwpkg; 22_44_1036-MCX623105AS-VDA_Ax.pldm.json

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A list of known issues with this release is available

at: <https://docs.nvidia.com/networking/display/connectx6dxfirmwarev22441036/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 22.44.1036:

- Traffic would halt and recovery would be prevented when the emulation doorbell malfunctioned.

Enhancements

Security Hardening Enhancements: This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your device's firmware to this release to improve the firmware security and reliability of your device.

New features and changes included in version 22.44.1036:

- Unified PTP is now supported across different VFs on the same PF.
- Added a new NV config (SM_DISABLE, default 0) which, when enabled, blocks SMP traffic that does not originate from the SM.
- Added the ability to set cable length as a parameter in the PFCC access register. The cable length is used in the calculation of RX lossless buffer parameters, including size, Xoff, and Xon thresholds.

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

Mellanox Firmware Package (FWPKG) for Mellanox MCX623106AS-CDAT Ethernet 100Gb 2-port QSFP56 Adapter for HPE
Version: 22.44.1036 **(Recommended)**
Filename: 22_44_1036-MCX623106AS-CDA_Ax.pldm.fwpkg; 22_44_1036-MCX623106AS-CDA_Ax.pldm.json

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6dxfirmwarev22441036/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 22.44.1036:

- Traffic would halt and recovery would be prevented when the emulation doorbell malfunctioned.

Enhancements

Security Hardening Enhancements: This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your device's firmware to this release to improve the firmware security and reliability of your device.

New features and changes included in version 22.44.1036:

- Unified PTP is now supported across different VFs on the same PF.
- Added a new NV config (SM_DISABLE, default 0) which, when enabled, blocks SMP traffic that does not originate from the SM.
- Added the ability to set cable length as a parameter in the PFCC access register. The cable length is used in the calculation of RX lossless buffer parameters, including size, Xoff, and Xon thresholds.

Supported Devices and Features

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

Mellanox Firmware Package(FWPKG) for HPE Ethernet 10/25Gb 2-port SFP28 MCX512F-ACHT Adapter
Version: 16.35.4030 **(Recommended)**
Filename: 16_35_4030-MCX512F-ACH_Ax_Bx.pldm.fwpkg

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx5firmwarev16354030/its/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

The following issues have been fixed in version 16.35.4030:

- VF FLR would get stuck when its PF triggered the FLR as well.
- Unexpected source UDP port appeared in RoCE packets when the firmware ignored a non-PF driver configuration for RoCE source UDP port control (as set in SET_HCA_CAP.sw_r_roce_src_udp_port).

Enhancements

Important : Security Hardening Enhancements - This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your device firmware to this version to improve the firmware security and reliability of your device.

New features and changes included in version 16.35.4030:

- Added support for postponing QP timeout "retry exceeded" errors for traffic directed at specific destinations. This new capability prevents broken connections for destinations in downtime because of live migration.

Supported Devices and Features

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

Mellanox Firmware Package(FWPKG) for HPE NVIDIA Ethernet 100Gb 2-port NVMe-oF Offload Adapter for HPE
Version: 22.43.1014 **(Recommended)**
Filename: 22_43_1014-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 22.43.1014

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: 26.43.1014 **(Recommended)**
Filename: 26_43_1014-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 26.43.1014

Supported Devices and Features

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

NVIDIA Firmware Package (FWPKG) for HPE Ethernet 100Gb 1-port QSFP28 PCIe3 x16 MCX515A-CCAT Adapter : HPE part numbers P31246-B21 and P31246-H21

Version: 16.35.4506 (**Recommended**)

Filename: 16_35_4506-MCX515A-CCA_HPE_Ax.pldm.fwpkg; 16_35_4506-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 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/connectx5firmwarev16354506its/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

The following issues have been fixed in version 16.35.4506:

- Incorrect MPLS packets discards flow occurred when the GLOBAL pause capability was disabled.

Enhancements

Important : Security Hardening Enhancements - This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your device firmware to this version to improve the firmware security and reliability of your device.

New features and changes included in version 16.35.4506:

- Added address validation in MLNX OEM CMD 0x0032 (get debug info) to be 4- bytes aligned.

Supported Devices and Features

This software package contains the following firmware versions:

Firmware

NVIDIA Ethernet Only Adapters	Version	PSID
HPE Ethernet 100Gb 1-port QSFP28 PCIe3 x16 MCX515A-CCAT Adapter(P31246-B21 and P31246-H21)	16.35.4506	MT_0000000591

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: 28.44.1036 (**Recommended**)

Filename: 28_44_1036-MCX75310AAS-HEAT_HPE2_Ax.pldm.fwpkg; 28_44_1036-MCX75310AAS-HEAT_HPE2_Ax.pldm.json

Important Note!

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

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

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

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A list of known issues with this release is available

at: <https://docs.nvidia.com/networking/display/connectx7firmwarev28441036/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 28.44.1036:

- Cable info semaphore deadlock.
- Improper error handling for the TLV full list, which caused the TLV mechanism to hang.
- The SPDM GET_CERTIFICATE operation did not support all certificate chain offsets and chunk sizes.
- An issue in VDPA where destroying a virtq would cause a health buffer syndrome with ext_synd=0x8f33 if the virtq was created without an mkey or with unmanned and mapped mkeys during live migration.
- The VDPA feature bits GUEST_TSO4 and GUEST_TSO6 were unexpectedly set by default, leading to traffic interruptions.
- Enabling PCC NP and setting the link type to one port as IB and the other as Ethernet could cause an assert to appear in dmesg with ext_synd 0x8309.

Enhancements

New features and changes included in version 28.44.1036:

- Increased the RX lossless buffer size to delay the transmission of Pause/PFC frames during NIC congestion.
- Added support for SyncE at 1G link speed.
- Added a new mechanism for allocations and deallocations flows to enhance parallelism.
- When using a multi-host deployment, each host is assigned unique ports and PFs and manages its own LAG.
- Added support for a new synchronized flow, including a tool and driver, to perform a fwreset on setups with a PCIe switch configuration.
- Unified PTP is now supported across different VFs on the same PF.
- Added support for new MADs: PortRecoveryPolicyConfig and PortRecoveryPolicyCounters . During the PHY recovery process, the firmware core will indicate the port_logical_state as Active.
- Added a new NV config (SM_DISABLE, default 0) which, when enabled, blocks SMP traffic that does not originate from the SM.
- Added the ability to set cable length as a parameter in the PFCC access register. The cable length is used in the calculation of RX lossless buffer parameters, including size, Xoff, and Xon thresholds.

Supported Devices and Features

HPE Part		

Number	Mellanox InfiniBand Only Adapter	PSID
P45642-B22	HPE InfiniBand NDR200/Ethernet 200Gb 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Adapter (P45642-B22 and P45642-H22)	MT_0000001119

Online Firmware Upgrade Utility (ESXi 8.0) for HPE Ethernet 10Gb 2-port 548SFP+ Adapter
Version: 1.0.1 (**Recommended**)
Filename: CP063146.compsig; CP063146.zip

Prerequisites

Use iLO5 firmware version 2.30 or higher with ConnectX4-Lx firmware version 14.32.1010. Thermal sensor reporting on the adapter will not be functional with older versions of iLO5 firmware.

Fixes

No fixes have been included in firmware version 14.32.1900.

Enhancements

Firmware for the following device has been updated to 14.32.1900:

- P11338-B21 (HPE Ethernet 10Gb 2-port 548SFP+ Adapter)

Security Hardening Enhancements

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

No new features or changes have been included in firmware version 14.32.1900.

Supported Devices and Features

HPE Part Number	Mellanox Ethernet Only Adapters	PSID
P11338-B21	HPE Ethernet 10Gb 2-port 548SFP+ Adapter	HPE0000000038

Online Firmware Upgrade Utility (ESXi 8.0) for HPE Mellanox Ethernet only adapters
Version: 1.0.5 (**Recommended**)
Filename: CP063098.compsig; CP063098.zip

Important Note!

The Firmware Upgrade Utility has been split into 2 packages for Mellanox Ethernet Only NIC adapters, one supporting Synergy platforms and the other supporting ProLiant and Apollo platforms. This package supports Mellanox Ethernet Only NIC adapters on ProLiant and Apollo servers.

Prerequisites

Use iLO5 firmware version 2.30 or higher with ConnectX4-Lx/ConnectX5 firmware version 14.32.1010/16.32.1010 (or later) respectively. Thermal sensor reporting on the adapter will not be functional with older versions of iLO5 firmware.

Fixes

No fixes have been included in firmware version 14.32.1900.

The following issues have been fixed in firmware version 16.35.4030:

- VF FLR would get stuck when its PF triggered the FLR as well.
- Unexpected source UDP port appeared in RoCE packets when the firmware ignored a non-PF driver configuration for RoCE source UDP port control (as set in SET_HCA_CAP.sw_r_roce_src_udp_port).

Enhancements

Firmware for the following devices has been updated to 14.32.1900:

- 817749-B21 (HPE Ethernet 25Gb 2-port 640FLR-SFP28 Adapter)
- 817753-B21 (HPE Ethernet 25Gb 2-port 640SFP28 Adapter)

Firmware for the following device has been updated to 16.35.4030:

- 874253-B21 (HPE Ethernet 100Gb 1-port 842QSFP28 Adapter)

Security Hardening Enhancements

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

No new features or changes have been included in firmware version 14.32.1900.

New features and changes included in firmware version 16.35.4030:

- Added support for postponing QP timeout "retry exceeded" errors for traffic directed at specific destinations. This new capability prevents broken connections for destinations in downtime because of live migration.

Supported Devices and Features

HPE Part Number	Mellanox Ethernet Only Adapters	PSID
817749-B21	HPE Ethernet 25Gb 2-port 640FLR-SFP28 Adapter	HP_2690110034
817753-B21	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	HP_2420110034
874253-B21	HPE Ethernet 100Gb 1-port 842QSFP28 Adapter	HPE000000014

Online Firmware Upgrade Utility (ESXi 8.0) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX4 and ConnectX5 devices on VMware ESXi 8.0

Version: 1.0.5 (**Recommended**)

Filename: CP066778.compsig; CP066778.zip

Fixes

No new fixes have been added in version 12.28.2302.

The following issues have been fixed in version 16.35.4506:

- Incorrect MPLS packets discards flow occurred when the GLOBAL pause capability was disabled.

Enhancements

Firmware for the following devices has been updated to 12.28.2302:

- 825110-B21 (HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter)
- 825111-B21 (HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter)

Firmware for the following devices has been updated to 16.35.4506:

- 879482-B21 (HPE InfiniBand FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter)
- 872726-B21 (HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter)

Important : Security Hardening Enhancements - This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your device firmware to this version to improve the firmware security and reliability of your device.

No new Features and changes included in version 12.28.2302.

New features and changes included in version 16.35.4506:

- Added address validation in MLNX OEM CMD 0x0032 (get debug info) to be 4- bytes aligned.

Supported Devices and Features

HPE Part Number	Device Name	PSID
825110-B21	HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter	HP_2180110032
825111-B21	HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter	HP_2190110032
872726-B21	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	HPE0000000009
879482-B21	HPE InfiniBand FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter	HPE0000000022

Online Firmware Upgrade Utility (ESXi 8.0) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX6 devices on VMware ESXi 8.0
Version: 1.0.7 **(Recommended)**
Filename: CP066376.compsig; CP066376.zip

Important Note!

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

Prerequisites

Use iLO5 firmware version 2.30 or higher with ConnectX6 firmware version 20.32.1010. Thermal sensor reporting on the adapter will not be functional with older versions of iLO5 firmware.

Fixes

The following issues have been fixed in version 20.43.2026:

- A linkup issue vs a 3rd party switch (BCM53405).
- A reference counter issue that resulted in the firmware assertion 0x889f with CQ reference counter underflow to solve a race condition.

Enhancements

Firmware for the following devices has been updated to 20.43.2026:

- HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe3 x16 MCX653105A-HDAT Adapter - P06154-B21
- HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe3 x16 MCX653105A-ECAT Adapter - P06250-B21
- HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe3 x16 MCX653106A-ECAT Adapter - P06251-B21

Security Hardening Enhancements: This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your device's firmware to this release to improve the firmware security and reliability of your device.

No changes or new features have been included in version 20.43.2026.

Supported Devices and Features

HPE Part Number	Device Name	PSID
P06154-B21	HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe3 x16 MCX653105A-HDAT Adapter	HPE0000000034

P06250-B21	HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe3 x16 MCX653105A-ECAT Adapter	HPE0000000035
P06251-B21	HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe3 x16 MCX653106A-ECAT Adapter	HPE0000000036

Online Firmware Upgrade Utility (ESXi 8.0) for Mellanox Open Ethernet cards
Version: 1.0.5 (**Recommended**)
Filename: CP063122.compsig; CP063122.zip

Important Note!

On Adapter Firmware rewrite scenario, SUM will always discover the Mellanox Open adapter firmware smart component as applicable and select it for deployment If the server iLO5 firmware version is older than 2.30.

Prerequisites

Use iLO5 firmware version 2.30 or higher with ConnectX4-Lx/ConnectX5 firmware version 14.32.1010/16.32.1010 respectively. Thermal sensor reporting on the adapter will not be functional with older versions of iLO5 firmware.

Fixes

No fixes have been included in firmware version 14.32.1900.

The following issues have been fixed in firmware version 16.35.4030:

- VF FLR would get stuck when its PF triggered the FLR as well.
- Unexpected source UDP port appeared in RoCE packets when the firmware ignored a non-PF driver configuration for RoCE source UDP port control (as set in SET_HCA_CAP.sw_r_roce_src_udp_port).

Enhancements

Firmware for the following devices has been updated to 14.32.1900:

- P21930-B21 (HPE Ethernet 10Gb 2-port SFP+ MCX4121A-XCAT Adapter)
- P11341-B21 (HPE Ethernet 10Gb 2-port SFP+ MCX4621A-ACAB OCP3 Adapter)

Firmware for the following device has been updated to 16.35.4030:

- P21927-B21 (HPE Ethernet 100Gb 2-Port QSFP28 MCX516A-CCHT Adapter)

Security Hardening Enhancements

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

No new features or changes have been included in firmware version 14.32.1900.

New features and changes included in firmware version 16.35.4030:

- Added support for postponing QP timeout "retry exceeded" errors for traffic directed at specific destinations. This new capability prevents broken connections for destinations in downtime because of live migration.

Supported Devices and Features

HPE Part Number	Mellanox Ethernet Only Adapters	PSID
P21930-B21	HPE Ethernet 10Gb 2-port SFP+ MCX4121A-XCHT Adapter	MT_0000000414
P11341-B21	HPE Ethernet 10Gb/25Gb 2-port SFP28 MCX4621A-ACAB OCP3 Adapter	MT_0000000238
P21927-B21	HPE Ethernet 100Gb 2-port QSFP28 MCX516A-CCHT Adapter	MT_0000000417

Firmware - Storage Controller

Controller Firmware Flash for ESXi8.0 and 9.0 - HPE MR216i-a Gen10 Plus Tri Mode Controller
Version: 52.26.3.5487 (B) (**Recommended**)
Filename: CP066014.compsig; CP066014.zip

Enhancements

- Support VMware ESXi 9.0.

Controller Firmware Flash for ESXi8.0 and 9.0 - HPE MR216i-p Gen10 Plus Tri Mode Controller
Version: 52.26.3.5487 (B) **(Recommended)**
Filename: CP066015.compsig; CP066015.zip

Enhancements

- Support VMware ESXi 9.0.

Controller Firmware Flash for ESXi8.0 and 9.0 - HPE MR416i-a Gen10 Plus Tri Mode Controller
Version: 52.26.3.5487 (B) **(Recommended)**
Filename: CP066016.compsig; CP066016.zip

Enhancements

- Support VMware ESXi 9.0.

Controller Firmware Flash for ESXi8.0 and 9.0 - HPE MR416i-p Gen10 Plus Tri Mode Controller
Version: 52.26.3.5487 (B) **(Recommended)**
Filename: CP066017.compsig; CP066017.zip

Enhancements

- Support VMware ESXi 9.0.

Firmware Package - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P204i-c, P416ie-m and P816i-a SR Gen10 and SR308i-o,SR308i-p Gen11 controllers
Version: 7.43 **(Recommended)**
Filename: HPE_SR_Gen10_7.43_A.fwpkg

Fixes

- Fixed an issue where a lockup occasionally occurs when RAID 0 Predictive Spare Rebuilding (PSR) starts.
- Fixed an issue where the fault LED remains lit during the rebuild process of a replaced SSD drive.
- Fixed an issue where the host was unable to retrieve new configuration updates after creating a logical drive on PF drives.
- Fixed an issue where the logical volume status was incorrectly reported as OK on a secured volume if a data drive was replaced with an Otherwise Owned SED drive before reboot.
- Fixed an issue where the surface scan period was not reset to default after factory reset.
- Fixed an issue where the predictive failure drive did not fail even after the Predictive Spare Rebuild (PSR) was completed.
- Fixed an issue where the Controller might have a potential lockup after a JBOD power cycle.
- Fixed an issue where the offline replacement of a failed drive during a spare rebuild led to the failure of the replacement drive.
- Fixed a lockup issue that could occur both during a transformation with an abrupt shutdown, and on subsequent bootup.
- Fixed an intermittent MCTP communication issue during AC power cycle tests on specific configurations.
- Fixed an MCTP communication issue in AMD Turin 2P configurations.
- Fixed a lockup issue that could occur when a timeout occurs with expander attached SATA drives.
- Fixed an issue with improper support checking for the secure erase command.
- Fixed issues for missing active dedicated hot spare member in HII logical drive information and failed drive part of a logical drive in the HII disk utilities.
- Fixed an issue which threw wrong error code, 'InternalError' when creating an array on controller that is waiting on adapter password.
- Fixed an issue When server is powered on with no drives connected to Enclosure. Observe incorrect controller information in iLO Storage tab & Redfish
- Fixed an issue that enclosures Link is missing under Storage URI in Redfish.
- Fixed an issue in which drive resource does not match with Chassis for empty bay.
- Fixed an issue in which incorrect severity warning of drive when sanitize erase operation is in progress.
- Fixed an issue where HealthRollup shows warning during normal state.
- Fixed an issue where CacheSummary.Status.Health shows incorrect during WriteCache degraded.
- Fixed an issue in which PLDM/RDE Read sometimes take longer than 6s during array deletion.

Enhancements

- PLDM Base (Type 0) commands comply with v1.2.0 of the PLDM base specification (DSP0240).
- PLDM Platform Monitoring and Control (Type 2) commands comply with v1.3.0 of the PLDM Platform Monitoring and Control

Specification (DSP0248).

- Long-running task support for volume creation/deletion using Redfish and storage resource RDE action operations.

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

Version: 1.2.14.1018 (D) (**Recommended**)

Filename: HPE_NS204i_Gen10p_Gen11_1.2.14.1018_D.fwpkg; HPE_NS204i_Gen10p_Gen11_1.2.14.1018_D.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.

For Gen10 plus server users, the NS204i firmware has to be 1.0.14.1063 or later in order to enable PLDM firmware update functionality for the controller. Please find the smart component versions of 1.0.14.1063 in below link:

- Windows: <https://www.hpe.com/global/swpublishing/MTX-be195b2891724ec8bb72c8bb2>
- Linux: <https://www.hpe.com/global/swpublishing/MTX-269e14d0e2524277bf699f433>
- Vmware: <https://www.hpe.com/global/swpublishing/MTX-1ffaca997cf248cd9f832a04c6>

Prerequisites

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

Enhancements

- Support new Gen 12 servers.

Firmware Package - HPE MR216i-a Gen10 Plus Tri Mode Controller

Version: 52.30.3-5917 (**Recommended**)

Filename: HPE_MR216i-a_Gen10P_52.30.3-5917_A.fwpkg

Important Note!

- **This firmware version to be used on HPE MR216i-a Gen10 Plus Controller.**
- **Please do not update MR controller FW/MRSA/StorCLI if systems installed both SR100i and MR controllers.**

Prerequisites

iLO5 version should be at least 2.98 is required for **chassis&Fabric support**.

Fixes

- Fix a00143232en_us: HPE MR Gen11 Controllers - The Component Integrity Status Is Shown As Not Supported in HPE ProLiant DL365/DL385 Gen11 Servers With AMD EPYC 9xx5 2P Configurations
- Fix a00144054en_us: HPE MR Gen10 Plus and Gen11 Storage Controllers - Updating the SAS/SATA/NVMe Drive Firmware May Not Succeed When the System Boots to the VMware ESXi Operating System
- Fix a00142857en_us: HPE MegaRAID Storage Administrator (MRSA) - Unexpected Information Displays in the HPE MRSA When Heavy I/Os Are Active
- Fix an issue that CM7 FIPS drives are not identified as SED capable drives. CM7 FIPSdrive Model Number: VO001920YXUHU, VO003840YXUHV, VO007680YXUJA, MO001600YXUJB, MO003200YXUJC, MO006400YXUJD, VV007680LYJKF, VV015360LYXMT, MV003200LYJKH, MV006400LYJJK.
- Fix an issue that foreign drives import with invalid security key with 5 attempts causing controller into infinite loop
- Fix an issue that controller may assert when there is MCTP traffic when PCI BAR update is in progress
- Fix an issue that Redfish Drive.CapableSpeedGbs shows as 22 instead of 22.5 for SAS4 drive
- Fix an issue that the number of logical drives created is less than the expected when creating multiple Logical Drive in the same command with ReuseTargetId option
- Fix an intermittent issue that pinned cache may not generate in multiple logical drive Config
- Fix a rare issue that offline drive firmware download timed out due to host taskmanagement but still generate download complete event
- Fix an issue that RAID5/50/6/60 logical drive performance may be lower when there is cache offload happened before server bootup
- Fix an issue that controller may fault and recovery with OCR (online controller reset) while running Patrol Read on NVMe drives
- Fix an issue that Maximum Write Same Length or Maximum Unmap Block Descriptor Count of NVMe JBOD drive may be overwritten and cause SCSI UNMAP or WRITE SAME command failed
- Fix a rare issue that UR (Unsupported Request) for PCIe Memory Read may occur when host configure PCIe BAR at run-time
- Fix an issue that SCSI UNMAP command using a parameter list length greater than 0 and less than 8 would fail with SCSI Sense key Illegal Request and Additional sense data of Invalid Field in Parameter List

- Fix a rare issue that controller may assert because PCI bar initialization timeouts waiting for boot message processing

Enhancements

- DMTF PLDM Redfish Device Enablement enhancements: Add support for Redfish Encryption (POST & PATCH)
 - POST Storage.SetEncryptionKey
 - PATCH Storage[EncryptionMode]
 - PATCH/POST Volume[Encrypted]
 - Note: MR controller support SED only. Therefore, Volume[EncryptionTypes] is not writeable during POST (Create) or PATCH (Update). Correspondingly the following Annotations are not populated:
 - a. EncryptionTypes@Redfish.AllowableValues (Volume Schema)
 - b. @Redfish.WriteableProperties[EncryptionTypes] (Volume Schema)
 - c. EncryptionTypes@Redfish.OptionalOnCreate (Volume Capabilities)
 - d. EncryptionTypes@Redfish.AllowableValues (Volume Capabilities)
 - e. EncryptionTypes@Redfish.UpdatableAfterCreate (Volume Capabilities)
 - POST Volume.ForceEnable
 - POST Drive.RevertToOriginalFactoryState
 - Note:
 - PATCH Volume[Encrypted] can be issued only with option 'true' on eligible volumes. PATCH Volume[Encrypted] with option 'false' will be failed because a secure volume cannot be changed to an unsecure volume in MR firmware.
 - During POST (Create) 'Encrypted' option is not allowed for creating a volume with RAIDType=None. This is because MR does not support creating a secure JBOD in one step. After creating the JBOD, PATCH Volume [Encrypted = true] can be issued to create a secure JBOD.
 - Whenever user requests to change to EKM, a reboot is a must to obtain the key via UEFI driver.
- Add MR408i-p support
- Added support for UBM10 backplanes
- Support UBM backplane FW version display and FW update when UBM controller is in bootloader state if there is an interruption during FW update
- Support NVMe SSD for Unmap capable Logical Drive. Please note that SATA SSD is not supported for Unmap capable Logical Drive.
- NAND flash refresh improvements
 - The algorithm that posts the event "System reset required" after a specified number of days has been removed. The refresh happens after the same specified time and the new events are populated as below:
 - Before starting the Nand flash refresh: "NAND refresh in progress:changing WB Logical Drives to WT"
 - After the completion of Nand flash refresh: "NAND refresh complete:changing WT virtual disks to WB"
 - The above behaviors are applicable only to MR400 controllers and are not applicable to MR200 controllers
- RAID1 Consistency Check Event String Change
 - The Event String has been changed from "Consistency Check found inconsistent parity on LD <Ld Id> at strip <Strip Number>" to "Consistency Check found inconsistency on LD <Ld Id> at strip <Strip Number>".
- Support a new controller property, "Spin Down Drives At Shutdown", to control spindown of configured drives during shutdown
- Support for SCSI NVMe Translation Layer Specification version 1.14

Firmware Package - HPE MR216i-p Gen10 Plus Tri Mode Controller
 Version: 52.30.3-5917 **(Recommended)**
 Filename: HPE_MR216i-p_Gen10P_52.30.3-5917_A.fwpkg

Important Note!

- **This firmware version to be used on HPE MR216i-p Gen10 Plus Controller.**
- **Please do not update MR controller FW/MRSA/StorCLI if systems installed both SR100i and MR controllers.**

Prerequisites

iLO5 version should be at least 2.98 is required for **chassis&Fabric support**.

Fixes

- Fix a00143232en_us: HPE MR Gen11 Controllers - The Component Integrity Status Is Shown As Not Supported in HPE ProLiant DL365/DL385 Gen11 Servers With AMD EPYC 9xx5 2P Configurations
- Fix a00144054en_us: HPE MR Gen10 Plus and Gen11 Storage Controllers - Updating the SAS/SATA/NVMe Drive Firmware May Not Succeed When the System Boots to the VMware ESXi Operating System
- Fix a00142857en_us: HPE MegaRAID Storage Administrator (MRSAs) - Unexpected Information Displays in the HPE MRSAs When Heavy I/Os Are Active
- Fix an issue that CM7 FIPS drives are not identified as SED capable drives. CM7 FIPSdrive Model Number: VO001920YXUHU, VO003840YXUHV, VO007680YXUJA, MO001600YXUJB, MO003200YXUJC, MO006400YXUJD, VV007680LYJKF, VV015360LYXMT, MV003200LYJKH, MV006400LYJJK.
- Fix an issue that foreign drives import with invalid security key with 5 attempts causing controller into infinite loop
- Fix an issue that controller may assert when there is MCTP traffic when PCI BAR update is in progress
- Fix an issue that Redfish Drive.CapableSpeedGbs shows as 22 instead of 22.5 for SAS4 drive
- Fix an issue that the number of logical drives created is less than the expected when creating multiple Logical Drive in the same command with ReuseTargetId option
- Fix an intermittent issue that pinned cache may not generate in multiple logical drive Config
- Fix a rare issue that offline drive firmware download timed out due to host taskmanagement but still generate download complete event
- Fix an issue that RAID5/50/6/60 logical drive performance may be lower when there is cache offload happened before server bootup
- Fix an issue that controller may fault and recovery with OCR (online controller reset) while running Patrol Read on NVMe drives
- Fix an issue that Maximum Write Same Length or Maximum Unmap Block Descriptor Count of NVMe JBOD drive may be overwritten and cause SCSI UNMAP or WRITE SAME command failed
- Fix a rare issue that UR (Unsupported Request) for PCIe Memory Read may occur when host configure PCIe BAR at run-time
- Fix an issue that SCSI UNMAP command using a parameter list length greater than 0 and less than 8 would fail with SCSI Sense key Illegal Request and Additional sense data of Invalid Field in Parameter List
- Fix a rare issue that controller may assert because PCI bar initialization timeouts waiting for boot message processing

Enhancements

- DMTF PLDM Redfish Device Enablement enhancements: Add support for Redfish Encryption (POST & PATCH)
 - POST Storage.SetEncryptionKey
 - PATCH Storage[EncryptionMode]
 - PATCH/POST Volume[Encrypted]
 - Note: MR controller support SED only. Therefore, Volume[EncryptionTypes] is not writeable during POST (Create) or PATCH (Update). Correspondingly the following Annotations are not populated:
 - a. EncryptionTypes@Redfish.AllowableValues (Volume Schema)
 - b. @Redfish.WriteableProperties[EncryptionTypes] (Volume Schema)
 - c. EncryptionTypes@Redfish.OptionalOnCreate (Volume Capabilities)
 - d. EncryptionTypes@Redfish.AllowableValues (Volume Capabilities)
 - e. EncryptionTypes@Redfish.UpdatableAfterCreate (Volume Capabilities)
 - POST Volume.ForceEnable
 - POST Drive.RevertToOriginalFactoryState
 - Note:
 - PATCH Volume[Encrypted] can be issued only with option 'true' on eligible volumes. PATCH Volume[Encrypted] with option 'false' will be failed because a secure volume cannot be changed to an unsecure volume in MR firmware.
 - During POST (Create) 'Encrypted' option is not allowed for creating a volume with RAIDType=None. This is because MR does not support creating a secure JBOD in one step. After creating the JBOD, PATCH Volume [Encrypted = true] can be issued to create a secure JBOD.
 - Whenever user requests to change to EKM, a reboot is a must to obtain the key via UEFI driver.
- Add MR408i-p support
- Added support for UBM10 backplanes
- Support UBM backplane FW version display and FW update when UBM controller is in bootloader state if there is an interruption during FW update
- Support NVMe SSD for Unmap capable Logical Drive. Please note that SATA SSD is not supported for Unmap capable Logical Drive.
- NAND flash refresh improvements
 - The algorithm that posts the event "System reset required" after a specified number of days has been removed. The refresh happens after the same specified time and the new events are populated as below:
 - Before starting the Nand flash refresh: "NAND refresh in progress:changing WB Logical Drives to WT"
 - After the completion of Nand flash refresh: "NAND refresh complete:changing WT virtual disks to WB"

- o The above behaviors are applicable only to MR400 controllers and are not applicable to MR200 controllers
- o RAID1 Consistency Check Event String Change
 - o The Event String has been changed from "Consistency Check found inconsistent parity on LD <Ld Id> at strip <Strip Number>" to "Consistency Check found inconsistency on LD <Ld Id> at strip <Strip Number>".
- o Support a new controller property, "Spin Down Drives At Shutdown", to control spindown of configured drives during shutdown
- o Support for SCSI NVMe Translation Layer Specification version 1.14

Firmware Package - HPE MR416i-a Gen10 Plus Tri Mode Controller

Version: 52.30.3-5917 **(Recommended)**

Filename: HPE_MR416i-a_Gen10P_52.30.3-5917_A.fwpkg

Important Note!

- o **This firmware version to be used on HPE MR416i-a Gen10 Plus Controller.**
- o **Please do not update MR controller FW/MRSA/StorCLI if systems installed both SR100i and MR controllers.**

Prerequisites

iLO5 version should be at least 2.98 is required for **chassis&Fabric support**.

Fixes

- o Fix a00143232en_us: HPE MR Gen11 Controllers - The Component Integrity Status Is Shown As Not Supported in HPE ProLiant DL365/DL385 Gen11 Servers With AMD EPYC 9xx5 2P Configurations
- o Fix a00144054en_us: HPE MR Gen10 Plus and Gen11 Storage Controllers - Updating the SAS/SATA/NVMe Drive Firmware May Not Succeed When the System Boots to the VMware ESXi Operating System
- o Fix a00142857en_us: HPE MegaRAID Storage Administrator (MRSA) - Unexpected Information Displays in the HPE MRSA When Heavy I/Os Are Active
- o Fix an issue that CM7 FIPS drives are not identified as SED capable drives. CM7 FIPSdrive Model Number: VO001920YXUHU, VO003840YXUHV, VO007680YXUJA, MO001600YXUJB, MO003200YXUJC, MO006400YXUJD, VV007680LYJKF, VV015360LYXMT, MV003200LYJKH, MV006400LYJJK.
- o Fix an issue that foreign drives import with invalid security key with 5 attempts causing controller into infinite loop
- o Fix an issue that controller may assert when there is MCTP traffic when PCI BAR update is in progress
- o Fix an issue that Redfish Drive.CapableSpeedGbs shows as 22 instead of 22.5 for SAS4 drive
- o Fix an issue that the number of logical drives created is less than the expected when creating multiple Logical Drive in the same command with ReuseTargetId option
- o Fix an intermittent issue that pinned cache may not generate in multiple logical drive Config
- o Fix a rare issue that offline drive firmware download timed out due to host taskmanagement but still generate download complete event
- o Fix an issue that RAID5/50/6/60 logical drive performance may be lower when there is cache offload happened before server bootup
- o Fix an issue that controller may fault and recovery with OCR (online controller reset) while running Patrol Read on NVMe drives
- o Fix an issue that Maximum Write Same Length or Maximum Unmap Block Descriptor Count of NVMe JBOD drive may be overwritten and cause SCSI UNMAP or WRITE SAME command failed
- o Fix a rare issue that UR (Unsupported Request) for PCIe Memory Read may occur when host configure PCIe BAR at run-time
- o Fix an issue that SCSI UNMAP command using a parameter list length greater than 0 and less than 8 would fail with SCSI Sense key Illegal Request and Additional sense data of Invalid Field in Parameter List
- o Fix a rare issue that controller may assert because PCI bar initialization timeouts waiting for boot message processing

Enhancements

- o DMTF PLDM Redfish Device Enablement enhancements: Add support for Redfish Encryption (POST & PATCH)
 - o POST Storage.SetEncryptionKey
 - o PATCH Storage[EncryptionMode]
 - o PATCH/POST Volume[Encrypted]
 - o Note: MR controller support SED only. Therefore, Volume[EncryptionTypes] is not writeable during POST (Create) or PATCH (Update). Correspondingly the following Annotations are not populated:
 - a. EncryptionTypes@Redfish.AllowableValues (Volume Schema)
 - b. @Redfish.WriteableProperties[EncryptionTypes] (Volume Schema)
 - c. EncryptionTypes@Redfish.OptionalOnCreate (Volume Capabilities)
 - d. EncryptionTypes@Redfish.AllowableValues (Volume Capabilities)

e. EncryptionTypes@Redfish.UpdatableAfterCreate (Volume Capabilities)

- o POST Volume.ForceEnable
- o POST Drive.RevertToOriginalFactoryState
- o Note:

- o PATCH Volume[Encrypted] can be issued only with option 'true' on eligible volumes. PATCH Volume[Encrypted] with option 'false' will be failed because a secure volume cannot be changed to an unsecure volume in MR firmware.
- o During POST (Create) 'Encrypted' option is not allowed for creating a volume with RAIDType=None. This is because MR does not support creating a secure JBOD in one step. After creating the JBOD, PATCH Volume [Encrypted = true] can be issued to create a secure JBOD.
- o Whenever user requests to change to EKM, a reboot is a must to obtain the key via UEFI driver.
- o Add MR408i-p support
- o Added support for UBM10 backplanes
- o Support UBM backplane FW version display and FW update when UBM controller is in bootloader state if there is an interruption during FW update
- o Support NVMe SSD for Unmap capable Logical Drive. Please note that SATA SSD is not supported for Unmap capable Logical Drive.
- o NAND flash refresh improvements
 - o The algorithm that posts the event "System reset required" after a specified number of days has been removed. The refresh happens after the same specified time and the new events are populated as below:
 - o Before starting the Nand flash refresh: "NAND refresh in progress:changing WB Logical Drives to WT"
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 - o The above behaviors are applicable only to MR400 controllers and are not applicable to MR200 controllers
- o RAID1 Consistency Check Event String Change
 - o The Event String has been changed from "Consistency Check found inconsistent parity on LD <Ld Id> at strip <Strip Number>" to "Consistency Check found inconsistency on LD <Ld Id> at strip <Strip Number>".
- o Support a new controller property, "Spin Down Drives At Shutdown", to control spindown of configured drives during shutdown
- o Support for SCSI NVMe Translation Layer Specification version 1.14

Firmware Package - HPE MR416i-p Gen10 Plus Tri Mode Controller
Version: 52.30.3-5917 (**Recommended**)
Filename: HPE_MR416i-p_Gen10P_52.30.3-5917_A.fwpkg

Important Note!

- o **This firmware version to be used on HPE MR416i-p Gen10 Plus Controller.**
- o **Please do not update MR controller FW/MRSA/StorCLI if systems installed both SR100i and MR controllers.**

Prerequisites

iLO5 version should be at least 2.98 is required for **chassis&Fabric support**.

Fixes

- o Fix a00143232en_us: HPE MR Gen11 Controllers - The Component Integrity Status Is Shown As Not Supported in HPE ProLiant DL365/DL385 Gen11 Servers With AMD EPYC 9xx5 2P Configurations
- o Fix a00144054en_us: HPE MR Gen10 Plus and Gen11 Storage Controllers - Updating the SAS/SATA/NVMe Drive Firmware May Not Succeed When the System Boots to the VMware ESXi Operating System
- o Fix a00142857en_us: HPE MegaRAID Storage Administrator (MRSA) - Unexpected Information Displays in the HPE MRSA When Heavy I/Os Are Active
- o Fix an issue that CM7 FIPS drives are not identified as SED capable drives. CM7 FIPSdrive Model Number: VO001920YXUHU, VO003840YXUHV, VO007680YXUJA, MO001600YXUJB, MO003200YXUJC, MO006400YXUJD, VV007680LYJKF, VV015360LYXMT, MV003200LYJKH, MV006400LYJJK.
- o Fix an issue that foreign drives import with invalid security key with 5 attempts causing controller into infinite loop
- o Fix an issue that controller may assert when there is MCTP traffic when PCI BAR update is in progress
- o Fix an issue that Redfish Drive.CapableSpeedGbs shows as 22 instead of 22.5 for SAS4 drive
- o Fix an issue that the number of logical drives created is less than the expected when creating multiple Logical Drive in the same command with ReuseTargetId option
- o Fix an intermittent issue that pinned cache may not generate in multiple logical drive Config
- o Fix a rare issue that offline drive firmware download timed out due to host taskmanagement but still generate download complete event
- o Fix an issue that RAID5/50/6/60 logical drive performance may be lower when there is cache offload happened before server bootup
- o Fix an issue that controller may fault and recovery with OCR (online controller reset) while running Patrol Read on NVMe drives

- Fix an issue that Maximum Write Same Length or Maximum Unmap Block Descriptor Count of NVMe JBOD drive may be overwritten and cause SCSI UNMAP or WRITE SAME command failed
- Fix a rare issue that UR (Unsupported Request) for PCIe Memory Read may occur when host configure PCIe BAR at run-time
- Fix an issue that SCSI UNMAP command using a parameter list length greater than 0 and less than 8 would fail with SCSI Sense key Illegal Request and Additional sense data of Invalid Field in Parameter List
- Fix a rare issue that controller may assert because PCI bar initialization timeouts waiting for boot message processing

Enhancements

- DMTF PLDM Redfish Device Enablement enhancements: Add support for Redfish Encryption (POST & PATCH)
 - POST Storage.SetEncryptionKey
 - PATCH Storage[EncryptionMode]
 - PATCH/POST Volume[Encrypted]
 - Note: MR controller support SED only. Therefore, Volume[EncryptionTypes] is not writeable during POST (Create) or PATCH (Update). Correspondingly the following Annotations are not populated:
 - a. EncryptionTypes@Redfish.AllowableValues (Volume Schema)
 - b. @Redfish.WriteableProperties[EncryptionTypes] (Volume Schema)
 - c. EncryptionTypes@Redfish.OptionalOnCreate (Volume Capabilities)
 - d. EncryptionTypes@Redfish.AllowableValues (Volume Capabilities)
 - e. EncryptionTypes@Redfish.UpdatableAfterCreate (Volume Capabilities)
 - POST Volume.ForceEnable
 - POST Drive.RevertToOriginalFactoryState
 - Note:
 - PATCH Volume[Encrypted] can be issued only with option 'true' on eligible volumes. PATCH Volume[Encrypted] with option 'false' will be failed because a secure volume cannot be changed to an unsecure volume in MR firmware.
 - During POST (Create) 'Encrypted' option is not allowed for creating a volume with RAIDType=None. This is because MR does not support creating a secure JBOD in one step. After creating the JBOD, PATCH Volume [Encrypted = true] can be issued to create a secure JBOD.
 - Whenever user requests to change to EKM, a reboot is a must to obtain the key via UEFI driver.
- Add MR408i-p support
- Added support for UBM10 backplanes
- Support UBM backplane FW version display and FW update when UBM controller is in bootloader state if there is an interruption during FW update
- Support NVMe SSD for Unmap capable Logical Drive. Please note that SATA SSD is not supported for Unmap capable Logical Drive.
- NAND flash refresh improvements
 - The algorithm that posts the event "System reset required" after a specified number of days has been removed. The refresh happens after the same specified time and the new events are populated as below:
 - Before starting the Nand flash refresh: "NAND refresh in progress:changing WB Logical Drives to WT"
 - After the completion of Nand flash refresh: "NAND refresh complete:changing WT virtual disks to WB"
 - The above behaviors are applicable only to MR400 controllers and are not applicable to MR200 controllers
- RAID1 Consistency Check Event String Change
 - The Event String has been changed from "Consistency Check found inconsistent parity on LD <Ld Id> at strip <Strip Number>" to "Consistency Check found inconsistency on LD <Ld Id> at strip <Strip Number>".
- Support a new controller property, "Spin Down Drives At Shutdown", to control spindown of configured drives during shutdown
- Support for SCSI NVMe Translation Layer Specification version 1.14

Firmware Package - HPE SR932i-p Gen10 Plus /SR416i-a Gen10 Plus/SR932i-p Gen11/SR416ie-m Gen11 Controllers
 Version: 03.01.33.044 **(Recommended)**
 Filename: HPE_SR416_SR932_Gen10P_Gen11_03.01.33.044_A.fwpkg

Fixes

- Fixed an issue where a lockup occasionally occurs when RAID 0 Predictive Spare Rebuilding (PSR) starts.
- Fixed an issue where the fault LED remains lit during the rebuild process of a replaced SSD drive.
- Fixed an issue where the host was unable to retrieve new configuration updates after creating a logical drive on PF drives or

slow drives.

- Fixed an issue where the logical volume status was incorrectly reported as OK on a secured volume if a data drive was replaced with an Otherwise Owned SED drive before reboot.
- Fixed an issue where the surface scan period was not reset to default after factory reset.
- Fixed an issue where the predictive failure drive did not fail even after the Predictive Spare Rebuild (PSR) was completed.
- Fixed an issue where the Controller might have a potential lockup after a JBOD power cycle.
- Fixed an issue where the offline replacement of a failed drive during a spare rebuild led to the failure of the replacement drive.
- Fixed a possible lockup that could occur both during a transformation with an abrupt shutdown, and on subsequent bootup.
- Fixed a potential issue where a good drive could be incorrectly marked as a predictive failure drive.
- Fixed a lockup issue that could occur during I/O to a degraded volume using Smart Path.
- Fixed a drive firmware update failure due to incorrect handling of sense data for specific SATA drives.
- Fixed a Controller boot failure when inserted in PCIe Gen 6 systems.
- Fixed issues for missing active dedicated hot spare member in HII logical drive information and failed drive part of a logical drive in the HII disk utilities.
- Fixed an issue which threw wrong error code, 'InternalError' when creating an array on controller that is waiting on adapter password.
- Fixed an issue When server is powered on with no drives connected to Enclosure. Observe incorrect controller information in iLO Storage tab & Redfish
- Fixed an issue that enclosures Link is missing under Storage URI in Redfish.
- Fixed an issue in which drive resource does not match with Chassis for empty bay.
- Fixed an issue in which incorrect severity warning of drive when sanitize erase operation is in progress.
- Fixed an issue where HealthRollup shows warning during normal state.
- Fixed an issue where CacheSummary.Status.Health shows incorrect during WriteCache degraded.
- Fixed an issue in which PLDM/RDE Read sometimes take longer than 6s during array deletion.

Enhancements

- PLDM Base (Type 0) commands comply with v1.2.0 of the PLDM base specification (DSP0240).
- PLDM Platform Monitoring and Control (Type 2) commands comply with v1.3.0 of the PLDM Platform Monitoring and Control Specification (DSP0248).
- Long-running task support for volume creation/deletion using Redfish and storage resource RDE action operations.

HPE D3600/D3700/D3610/D3710 12Gb SAS Disk Enclosure ROM Flash Component for VMware (ESXi)

Version: 5.04 (L) (**Recommended**)

Filename: CP066421.compsig; CP066421.md5; CP066421.zip

Important Note!

IMPORTANT: Firmware updates must be performed during a system maintenance window, with all I/O to the system halted. In single domain configuration, if user hosts an OS in D3000(or any storage box) and flash the SEPs, it will hang/crash everytime as SmartComponent will reset the SEPs after flash/code load.

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.

NOTE: All firmware flash progress messages are logged to /var/cpq/D3000.log and flash summary is logged to /var/cpq/Component.log.

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.

NOTE: All firmware flash progress messages are logged to /var/cpq/D3000.log and flash summary is logged to /var/cpq/Component.log.

Fixes

The following fixes were incorporated in this version:

- The Enabled-ClusterS2D command now completes successfully when executed on a SATA drive within a D3610 disk enclosure for a NonStop solution.
- The smart carrier, which is the drive case for SAS drives, now authenticates in the D3610/D3710 drive enclosure.
- 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.
- 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.

Enhancements

Added support of ESXi 9.0

Removed support of ESXi 7.0

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 :

- Smart Array P408e-p Controller
- Smart Array E208e-p Controller

HPE D3610B/D3710B 12Gb SAS Disk Enclosure ROM Flash Component for VMware (ESXi)
Version: 6.00 (F) (**Recommended**)
Filename: CP066424.compsig; CP066424.md5; CP066424.zip

Important Note!

IMPORTANT: Firmware updates must be performed during a system maintenance window, with all I/O to the system halted. In single domain configuration, if user hosts an OS in D3000B(or any storage box) and flash the SEPs, it will hang/crash everytime as SmartComponent will reset the SEPs after flash/code load.

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.

NOTE: All firmware flash progress messages are logged to /var/cpq/D3000B.log and flash summary is logged to /var/cpq/Component.log.

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.

NOTE: All firmware flash progress messages are logged to /var/cpq/D3000B.log and flash summary is logged to /var/cpq/Component.log.

Fixes

The following fixes were incorporated in this version:

- Code optimization to save memory repo.
- TLB exception seen while doing esp reset when expander reset was in progress.
- Added the psoc 8.93 binary in peripheral images, updated the reveille version numbers.
- 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.

Enhancements

Added support of ESXi 9.0

Removed support of ESXi 7.0

Supported Devices and Features

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

- Smart Array P408e-p Controller
- Smart Array E208e-p Controller

HPE D6020 12Gb SAS Disk Enclosure ROM Flash Component for VMware (ESXi)

Version: 2.74 (S) (**Recommended**)

Filename: CP066427.compsig; CP066427.md5; CP066427.zip

Important Note!

IMPORTANT: Firmware updates must be performed during a system maintenance window, with all I/O to the system halted. In single domain configuration, if user hosts an OS in D6020(or any storage box) and flash the SEPs, it will hang/crash everytime as SmartComponent will reset the SEPs after flash/codeload.

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.

NOTE: All firmware flash progress messages are logged to /var/cpq/D6020.log and flash summary is logged to /var/cpq/Component.log.

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.

NOTE: All firmware flash progress messages are logged to /var/cpq/D6020.log and flash summary is logged to /var/cpq/Component.log.

Fixes

The following fixes were incorporated in this version:

- Temperature sensors logic inside gSEP model and SES database
- When an IOM is pulled the surviving IOM reports false critical temperatures

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

Enhancements

Added support of ESXi 9.0

Removed support of ESXi 7.0

Supported Devices and Features

The D6020 Enclosure can be attached to any of the following HPE Storage Controllers and Host Bus Adapters :

- Smart Array P408e-p Controller
- Smart Array E208e-p Controller

HPE D8000 12Gb SAS Disk Enclosure ROM Flash Component for VMware (ESXi)

Version: 0130 (G) (**Recommended**)

Filename: CP066430.compsig; CP066430.md5; CP066430.zip

Important Note!

IMPORTANT: Firmware updates must be performed during a system maintenance window, with all I/O to the system halted. In single domain configuration, if user hosts an OS in D8000(or any storage box) and flash the SEPs, it will hang/crash everytime as SmartComponent will reset the SEPs after flash/codeload.

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.

NOTE: All firmware flash progress messages are logged to /var/cpq/D8000.log and flash summary is logged to /var/cpq/Component.log.

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.

NOTE: All firmware flash progress messages are logged to /var/cpq/D8000.log and flash summary is logged to /var/cpq/Component.log.

Fixes

The following fixes were incorporated in this version:

- Smart Array reporting "Storage Enclosure FW upgrade Problem Detected".
- PSU version is showing as "No Ver" after inserted the New bel power PSU.
- GEM_5_2 Coverity defect fix.

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

Enhancements

Added support of ESXi 9.0

Removed support of ESXi 7.0

Supported Devices and Features

The D8000 Enclosure can be attached to any of the following HPE Storage Controllers and Host Bus Adapters :

- HPE Smart Array P408e-p Controller
- HPE Smart Array E208e-p Controller

Online Firmware Flash for ESXi - HPE Gen10 Plus Boot Controller NS204i-p, NS204i-d, NS204i-t, NS204i-r, NS204i-u and NS204i-d Gen11
Version: 1.0.14.1063 (C) **(Recommended)**
Filename: CP064740.compsig; CP064740.zip

Important Note!

- **This version is the minimum required version for Gen10 Plus device to upgrade to latest FW**
- **You can get Firmware Package version 1.2.14.1004 or latest FW version from <https://www.hpe.com/global/swpublishing/MTX-318c8e8298704d8bb4f991eb4d> and update it via iLO without any OS dependency.**

Enhancements

- Added ESXi9.0 support.

Online ROM Flash Component for VMware ESXi - HPE 12Gb/s SAS Expander Firmware for HPE Smart Array Controllers and HPE HBA Controllers
Version: 5.15 (C) **(Recommended)**
Filename: CP064922.compsig; CP064922.zip

Important Note!

- **Do NOT downgrade FW to previous version if your current expander is 5.10; please upgrade to 5.15 immediately.**

Enhancements

- Added ESXi9.0 support.

Online ROM Flash Component for VMware ESXi - HPE Apollo 2000 Gen10 Plus Backplane Expander FW
Version: 1.27 (C) **(Recommended)**
Filename: CP064920.compsig; CP064920.zip

Enhancements

- Added ESXi9.0 support.

Online ROM Flash Component for VMware ESXi - HPE Apollo 4200 Gen10 Plus Backplane Expander Firmware
Version: 0.39 (D) **(Recommended)**
Filename: CP064921.compsig; CP064921.zip

Prerequisites

- Before upgrading to 0.39(D), please flash to the transition version 0.39 first by standalone update approach to activate the new PID naming.
- 0.39(B) is the minimum version for Gen10plus 4200 expander FW.
- **0.39 transition version link:** <https://www.hpe.com/global/swpublishing/MTX-baec686eb389427aa933bbf9f0>

Enhancements

- Support ESXi9.0 OS.

Online ROM Flash Component for VMware ESXi - HPE Smart Array P408i-p, P408e-p, P408i-a, E208i-p, E208e-p, E208i-a, P816i-a SR Gen10 Controllers
Version: 7.43 **(Recommended)**
Filename: CP062902.compsig; CP062902.zip

Fixes

- Fixed an issue where a lockup occasionally occurs when RAID 0 Predictive Spare Rebuilding (PSR) starts.
- Fixed an issue where the fault LED remains lit during the rebuild process of a replaced SSD drive.
- Fixed an issue where the host was unable to retrieve new configuration updates after creating a logical drive on PF drives.
- Fixed an issue where the logical volume status was incorrectly reported as OK on a secured volume if a data drive was replaced with an Otherwise Owned SED drive before reboot.
- Fixed an issue where the surface scan period was not reset to default after factory reset.
- Fixed an issue where the predictive failure drive did not fail even after the Predictive Spare Rebuild (PSR) was completed.
- Fixed an issue where the Controller might have a potential lockup after a JBOD power cycle.
- Fixed an issue where the offline replacement of a failed drive during a spare rebuild led to the failure of the replacement drive.
- Fixed a lockup issue that could occur both during a transformation with an abrupt shutdown, and on subsequent bootup.
- Fixed an intermittent MCTP communication issue during AC power cycle tests on specific configurations.
- Fixed an MCTP communication issue in AMD Turin 2P configurations.
- Fixed a lockup issue that could occur when a timeout occurs with expander attached SATA drives.
- Fixed an issue with improper support checking for the secure erase command.
- Fixed issues for missing active dedicated hot spare member in HII logical drive information and failed drive part of a logical drive in the HII disk utilities.
- Fixed an issue which threw wrong error code, 'InternalError' when creating an array on controller that is waiting on adapter password.
- Fixed an issue When server is powered on with no drives connected to Enclosure. Observe incorrect controller information in iLO Storage tab & Redfish
- Fixed an issue that enclosures Link is missing under Storage URI in Redfish.
- Fixed an issue in which drive resource does not match with Chassis for empty bay.
- Fixed an issue in which incorrect severity warning of drive when sanitize erase operation is in progress.
- Fixed an issue where HealthRollup shows warning during normal state.
- Fixed an issue where CacheSummary.Status.Health shows incorrect during WriteCache degraded.
- Fixed an issue in which PLDM/RDE Read sometimes take longer than 6s during array deletion.

Enhancements

- PLDM Base (Type 0) commands comply with v1.2.0 of the PLDM base specification (DSP0240).
 - PLDM Platform Monitoring and Control (Type 2) commands comply with v1.3.0 of the PLDM Platform Monitoring and Control Specification (DSP0248).
 - Long-running task support for volume creation/deletion using Redfish and storage resource RDE action operations.
-

Enhancements

- o Added ESXi9.0 support.

Firmware - Storage Fibre Channel

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HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 8.0
 Version: 2025.03.01 **(Recommended)**
 Filename: CP063477.compsig; CP063477.zip

Important Note!

Release notes:

[Broadcom Release notes](#)

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	16Gb	14.4.473.14	14.4.473.14	14.4.473.8	14.4.469.0
HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	16Gb	14.4.473.14	14.4.473.14	14.4.473.8	14.4.469.0
HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.4.473.14	14.4.473.14	14.4.473.8	14.4.469.0
HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.4.473.14	14.4.473.14	14.4.473.8	14.4.469.0
HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.4.473.14	14.4.473.14	14.4.473.8	14.4.469.0
HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.4.473.14	14.4.473.14	14.4.473.8	14.4.469.0
HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.4.473.14	14.4.473.14	14.4.473.8	14.4.469.0
HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.4.473.14	14.4.473.14	14.4.473.8	14.4.469.0

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 SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	16Gb	14.4.473.14	14.4.473.14	14.4.473.8	14.4.469.0
HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	16Gb	14.4.473.14	14.4.473.14	14.4.473.8	14.4.469.0
HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.4.473.14	14.4.473.14	14.4.473.8	14.4.469.0
HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.4.473.14	14.4.473.14	14.4.473.8	14.4.469.0
HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.4.473.14	14.4.473.14	14.4.473.8	14.4.469.0
HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.4.473.14	14.4.473.14	14.4.473.8	14.4.469.0
HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.4.473.14	14.4.473.14	14.4.473.8	14.4.469.0
HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.4.473.14	14.4.473.14	14.4.473.8	14.4.469.0

Supported Devices and Features

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

16Gb FC Adapter:

- HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter

32Gb FC Adapter:

- HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1600E 32Gb Single Port Fibre Channel Host Bus 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

HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 8.0

Version: 2025.05.01 (**Recommended**)

Filename: CP066317.compsig; CP066317.zip

Important Note!

Release Notes:

[HPE QLogic Adapters Release Notes](#)

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter	16Gb	02.04.09	9.15.05	7.28	3.68
HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter	16Gb	02.04.09	9.15.05	7.28	3.68
HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.04.09	9.15.05	7.28	3.68
HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.04.09	9.15.05	7.28	3.68
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.10.09	09.15.05	7.39	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.10.09	09.15.05	7.39	0.0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.10.09	09.15.05	7.39	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.10.09	09.15.05	7.39	0.0

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	MBI	Firmware	UEFI	Boot Bios
HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter	16Gb	02.04.09	9.15.05	7.28	3.68
HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter	16Gb	02.04.09	9.15.05	7.28	3.68
HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.04.09	9.15.05	7.28	3.68
HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.04.09	9.15.05	7.28	3.68
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.10.09	09.15.05	7.39	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.10.09	09.15.05	7.39	0.0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.10.09	09.15.05	7.39	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.10.09	09.15.05	7.39	0.0

Supported Devices and Features

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

16Gb Fibre Channel Host Bus Adapter:

- HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter
- HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter

32Gb Fibre Channel Host Bus Adapter:

- HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1600Q 32Gb Dual Port 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 - Management

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HPE iLO Driver Bundle Smart Component for ESXi 8.0 and ESXi 9.0

Version: 2025.03.00 (**Recommended**)

Filename: cp064439.compsig; cp064439.zip

Enhancements

- Support VMware ESXi 9.0.

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

Version: 2025.02.01 (**Recommended**)

Filename: cp062924.compsig; cp062924.zip

Important Note!

- Actual ESXi ssacli version is 6.45.8.0

Fixes

- Corrected wrong wording of Parity Initialization messages.
- Fixed vulnerability CVE-2023-45853.

Enhancements

- Added Write Cache Status field to the info page for physical drives when "pd all show detail" is used.

Software - Storage Controller

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

Version: 2025.01.01 (C) (**Recommended**)

Filename: cp067028.compsig; cp067028.zip

Important Note!

- Actual ESXi Version is 007.3011.0000.0000

Enhancements

- Support new Gen12 servers.

Software - Storage Fibre Channel

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HPE QLogic Fibre Channel driver component for VMware vSphere 8.0

Version: 2024.09.01 (**Recommended**)

Filename: cp062113.compsig; cp062113.zip

Important Note!

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 vibstdepot.hpe.com webpages, plus an HPE specific CPXXXX.xml file.

Prerequisites

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

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

Enhancements

Driver version 5.4.82.1

Supported Devices and Features

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

16Gb Fibre Channel Host Bus Adapter:

- HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter
- HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter

32Gb Fibre Channel Host Bus Adapter:

- HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1600Q 32Gb Dual Port 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

HPE QLogic Fibre Channel driver component for VMware vSphere 8.0

Version: 2025.05.01 (**Recommended**)

Filename: cp066315.compsig; cp066315.zip

Important Note!

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 vibstdepot.hpe.com webpages, plus an HPE specific CPXXXX.xml file.

This driver is only supported on VMware ESXi 8.0u3

Prerequisites

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

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

Enhancements

Driver version 5.4.85.0-1

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:

16Gb Fibre Channel Host Bus Adapter:

- HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter
- HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter

32Gb Fibre Channel Host Bus Adapter:

- HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1600Q 32Gb Dual Port 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

[Top](#)

HPE Agentless Management Bundle for ESXi for HPE Gen10 and Gen10 Plus Servers

Version: 802.11.11.5 **(Recommended)**

Filename: amsdComponent_802.11.11.5.4-1_24720090.zip

Fixes

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

Enhancements

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

HPE Agentless Management Bundle Smart Component on ESXi for Gen10 and Gen10 Plus Servers

Version: 2025.05.01 **(Recommended)**

Filename: cp066689.compsig; cp066689.zip

Fixes

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

Enhancements

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

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