

VMware Deliverable Release Notes

This document does not apply to HPE Superdome servers. For information on HPE Superdome, see the following links:

[HPE Integrity Superdome X](#)
[HPE Superdome Flex](#)

Information on HPE Synergy supported VMware ESXi OS releases, HPE ESXi Custom Images and HPE Synergy Custom SPPs is available at:

[OS Support Tool for HPE Synergy](#)

Information on HPE Synergy Software Releases is available at:

[HPE Synergy Software Releases - Overview](#)

Gen11 SPP 2026.07.00.00 Release Notes for VMware ESXi 9.0 and 9.1

[BIOS - System ROM](#)
[Driver - Lights-Out Mana](#)
[Driver - Network](#)
[Driver - Storage Controller](#)
[Firmware - Management](#)
[Firmware - Network](#)
[Firmware - Storage Controller](#)
[Firmware - Storage Fibre Channel](#)
[Software - Management](#)
[Software - Storage Controller](#)
[Software - Storage Fibre Channel](#)
[Software - System Management](#)

Driver - Network

[Top](#)

HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.1
Version: 2026.05.00 **(Recommended)**
Filename: cp071480.compsig; cp071480.zip

Important Note!

- This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vib depot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.
- HPE recommends the *HPE Broadcom NetXtreme-E Firmware Version*, 237.1.148000 or later, for use with this driver.

Fixes

- This product fixes the issue where RDMA resource configuration for VFs may be incorrectly handled when VF RDMA is disabled in BIOS.
- This product fixes the issue where the RoCE traffic priority may be incorrectly updated during RoCE connection handling.

Enhancements

- This product enhances the driver to report a warning in the kernel logs when the module temperature reaches the threshold.

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 igbn Driver for VMware vSphere 9.1
Version: 2026.03.00 **(Recommended)**
Filename: cp070846.compsig; cp070846.zip

Important Note!

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

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

Initial version

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

- o Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE
- o Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE
- o Intel(R) I350 Gigabit Network Connection

Intel icen Driver for VMware vSphere 9.1
Version: 2026.03.00 **(Recommended)**
Filename: cp070840.compsig; cp070840.zip

Important Note!

- o This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.
- o HPE recommends the firmware provided in *Intel Firmware Package For E810 Ethernet Adapter*, version 4.91 or later, for use with these drivers.

Enhancements

Initial version

Supported Devices and Features

This product supports the following network adapters:

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

Driver - Storage Controller

[Top](#)

HPE MR932i-p Controller Driver (64-bit) for vSphere 9.1
Version: 2026.04.01 **(Recommended)**
Filename: cp071202.compsig; cp071202.zip

Important Note!

- o Actual Version is 8.16.1.0.0.0

Fixes

- o Fix an issue that incomplete LOG DATA event information caused application crashes
- o Fix a rare issue that page fault exception is observed while running heavy IOs along with controller reset
- o Fix an issue that sense data is not observed by application for the IOCTL IOs which are failed with check condition

Enhancements

- o Report firmware package version to upper layer

Firmware - Management

[Top](#)

ROM Flash Universal Firmware Package - HPE Edgeline Chassis Controller Firmware
Version: 2.1.0 **(Recommended)**
Filename: ACCE_2.1.0s.fwpkg

Fixes

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

Firmware - Network

[Top](#)

Broadcom NX1 Online Firmware Upgrade Utility for VMware
Version: 1.44.0 **(Recommended)**
Filename: CP071597.compsig; CP071597.zip

Important Note!

This software package contains combo image v20.37.41 with the following firmware versions:

NIC	Boot Code Version	PXE Version	NCSI Version	UEFI Version
BCM 5719 1GbE 4p BASE-T Adptr	1.64	21.6.4	1.5.71	21.6.97
BCM 5719 1GbE 4p BASE-T OCP3 Adptr	1.64	21.6.4	1.5.71	21.6.97
BCM 5719 1GbE 4p BASE-T LOM Adptr	1.64	21.6.4	1.5.71	21.6.97
BCM 5720 1GbE 2p BASE-T LOM Adptr	1.43	21.6.4	1.5.71	21.6.97

Prerequisites

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

Fixes

- o This product fixes the issue where BMC ping may fail after host network interfaces are added, removed, or reconfigured.

Supported Devices and Features

This product supports the following network adapters:

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

HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for VMware
Version: 226.1.107.0 (C) **(Recommended)**
Filename: CP070641.compsig; CP070641.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 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

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

Enhancements

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

Supported Devices and Features

This product supports the following network adapters:

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

Intel Online Firmware Upgrade Utility for VMware
Version: 3.29.0 **(Recommended)**
Filename: CP070391.compsig; CP070391.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
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HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter	800100D3	1.3909.0	N/A	9.56
HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter	800100DE	1.3909.0	N/A	9.56
Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter	8000123F	1.3909.0	N/A	N/A
Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter	80001234	1.3909.0	N/A	N/A
Intel(R) I350 Gigabit Network Connection (2-port)	8000119C	1.3909.0	N/A	N/A
Intel(R) I350 Gigabit Network Connection (4-port)	8000E897	1.3909.0	N/A	N/A

The combo image v1.3909.0 includes: Boot Agent: 1GbE - v1.5.90, 10GbE - v2.4.59, 40GbE - v1.1.45 & UEFI Drivers: 1GbE - v9.9.03, 10GbE - v8.3.05, 40GbE - v5.0.33

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

Prerequisites

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

Fixes

- o This product fixed an HII defect where the "functionless default" overwrote modification information for the same flag field.
- o This product fixed an issue where BIOS failed to preserve greyed-out options, preventing unintended writes.

Enhancements

Added ESXi 9.1 Supported Environment

Supported Devices and Features

This package supports the following network adapters:

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

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

Version: 26.49.1014 **(Recommended)**

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

Important Note!

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

Prerequisites

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

Fixes

The following issues have been fixed in version 26.49.1014:

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

Enhancements

No new features or changes are included in version 26.49.1014.

Supported Devices and Features

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

NVIDIA Firmware Package (FWPKG) - Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE

Version: 26.49.1014 **(Recommended)**

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

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

Prerequisites

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

Fixes

The following issues have been fixed in version 26.49.1014:

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

Enhancements

No new features or changes are included in version 26.49.1014.

Supported Devices and Features

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

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

Version: 16.35.8008 (**Recommended**)

Filename: 16_35_8008-MCX515A-CCA_HPE_Ax.pldm.fwpkg; 16_35_8008-MCX515A-CCA_HPE_Ax.pldm.json

Important Note!

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

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

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

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

Prerequisites

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

Fixes

No fixes are included in version 16.35.8008.

Enhancements

New features and changes included in version 16.35.8008:

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

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

Supported Devices and Features

This software package contains the following firmware versions:

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

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

Important Note!

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

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

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

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

Prerequisites

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

Fixes

No new fixes have been included in version 20.43.8004.

Enhancements

New features and changes included in version 20.43.8004:

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

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

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

Supported Devices and Features

This software package contains the following firmware versions:

NVIDIA VPI Adapter	Firmware Version	PSID
HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 MCX653105A-HDAT Adapter (P23664-B21 and P23664-H21)	20.43.8004	MT_0000000451

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 OCP3 MCX653435A-HDAI Adapter : HPE part numbers P31323-B21 and P31323-H21
Version: 20.43.8004 (Recommended)
Filename: 20_43_8004-MCX653435A-HDA_HPE_Ax.pldm.fwpkg; 20_43_8004-MCX653435A-HDA_HPE_Ax.pldm.json

Important Note!

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

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

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

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

Prerequisites

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

Fixes

No new fixes have been included in version 20.43.8004.

Enhancements

New features and changes included in version 20.43.8004:

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

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

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

Supported Devices and Features

This software package contains the following firmware versions:

NVIDIA VPI Adapter	Firmware Version	PSID
HPE InfiniBand HDR/Ethernet 200Gb 1-port QSP56 PCIe4 x16 OCP3 MCX653435A-HDAI Adapter (P31323-B21 and P31323-H21)	20.43.8004	MT_0000000592

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand HDR/Ethernet 200Gb 2-port QSP56 PCIe4 x16 MCX653106A-HDAT Adapter : HPE part numbers P31324-B21 and P31324-H21

Version: 20.43.8004 (**Recommended**)

Filename: 20_43_8004-MCX653106A-HDA_HPE_Ax.pldm.fwpgk; 20_43_8004-MCX653106A-HDA_HPE_Ax.pldm.json

Important Note!

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

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

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

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

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

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

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

Prerequisites

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

Fixes

No new fixes have been included in version 20.43.8004.

Enhancements

New features and changes included in version 20.43.8004:

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

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

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

Supported Devices and Features

This software package contains the following firmware versions:

NVIDIA VPI Adapter	Firmware Version	PSID
HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 MCX653106A-HDAT Adapter(P31324-B21 and P31324-H21)	20.43.8004	MT_0000000594

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

Version: 20.43.8004 (**Recommended**)

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

Important Note!

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

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

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

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

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

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

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

Prerequisites

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

Fixes

No new fixes have been included in version 20.43.8004.

Enhancements

New features and changes included in version 20.43.8004:

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

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

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

Supported Devices and Features

This software package contains the following firmware versions:

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

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

Version: 20.43.8004 (**Recommended**)

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

Important Note!

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

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

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

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

Prerequisites

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

Fixes

No new fixes have been included in version 20.43.8004.

Enhancements

New features and changes included in version 20.43.8004:

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

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

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

Supported Devices and Features

This software package contains the following firmware versions:

NVIDIA VPI Adapter	Firmware Version	PSID
HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe4 x16 MCX653106A-ECAT Adapter (P23665-B21 and P23665-H21)	20.43.8004	MT_0000000452

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

Version: 20.43.8004 (**Recommended**)

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

Important Note!

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

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/connectx6firmwarev20438004/its/known-issues>

Prerequisites

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

Fixes

No new fixes have been included in version 20.43.8004.

Enhancements

New features and changes included in version 20.43.8004:

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

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

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

Supported Devices and Features

This software package contains the following firmware versions:

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

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR/Ethernet 400Gb 1-port OSFP PCIe5 x16 MCX75310AAS-NEAT Adapter : HPE part numbers P45641-B23 and P45641-H23
Version: 28.49.1014 **(Recommended)**
Filename: 28_49_1014-MCX75310AAS-NEAT_HPE2_Ax.pldm.fwpkg; 28_49_1014-MCX75310AAS-NEAT_HPE2_Ax.pldm.json

Important Note!

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

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

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

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A list of known issues with this release is available at: <https://networking-docs.nvidia.com/connectx7fwrn/28.49.1014/known-issues>

Fixes

The following issues have been fixed in version 28.49.1014:

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

Enhancements

New features and changes included in version 28.49.1014:

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

Supported Devices and Features

HPE Part Number	NVIDIA VPI Adapter	PSID
P45641-B23	HPE InfiniBand NDR/Ethernet 400Gb 1-port OSFP PCIe5 x16 MCX75310AAS-NEAT Adapter (P45641-B23 and P45641-H23)	MT_0000001120

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR/Ethernet 400Gb 1-port OSFP PCIe5 x16 MCX75310AAS-NEAT Generic Adapter : HPE part number P45641-H24
Version: 28.49.1014 **(Recommended)**
Filename: 28_49_1014-MCX75310AAS-NEA_Ax.pldm.fwpkg; 28_49_1014-MCX75310AAS-NEA_Ax.pldm.json

Important Note!

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

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

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

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A list of known issues with this release is available at: <https://networking-docs.nvidia.com/connectx7fwrn/28.49.1014/known-issues>

Fixes

The following issues have been fixed in version 28.49.1014:

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

Enhancements

New features and changes included in version 28.49.1014:

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

Supported Devices and Features

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

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR/Ethernet 400Gb 1-port QSFP112 PCIe5 x16 MCX715105AS-WEAT Adapter : HPE part number S5R60A
Version: 28.49.1014 (**Recommended**)
Filename: 28_49_1014-MCX715105AS-WEAT_Ax.pldm.fwpkg; 28_49_1014-MCX715105AS-WEAT_Ax.pldm.json

Important Note!

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

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

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

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A list of known issues with this release is available at: <https://networking-docs.nvidia.com/connectx7fwrn/28.49.1014/known-issues>

Fixes

The following issues have been fixed in version 28.49.1014:

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

Enhancements

New features and changes included in version 28.49.1014:

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

Supported Devices and Features

HPE Part Number	NVIDIA VPI Adapter	PSID
S5R60A	HPE InfiniBand NDR/Ethernet 400Gb 1-port QSFP112 PCIe5 x16 MCX715105AS-WEAT Adapter (S5R60A)	MT_0000001244

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR200/Ethernet 200Gb 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Adapter : HPE part numbers P45642-B22 and P45642-H22
Version: 28.49.1014 (**Recommended**)
Filename: 28_49_1014-MCX75310AAS-HEAT_HPE2_Ax.pldm.fwpkg; 28_49_1014-MCX75310AAS-HEAT_HPE2_Ax.pldm.json

Important Note!

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

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

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

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A list of known issues with this release is available at: <https://networking-docs.nvidia.com/connectx7fwrn/28.49.1014/known-issues>

Prerequisites

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

Fixes

The following issues have been fixed in version 28.49.1014:

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

Enhancements

New features and changes included in version 28.49.1014:

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

Supported Devices and Features

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

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR200/Ethernet 200Gb 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Generic Adapter : HPE part number P45642-H23
Version: 28.49.1014 **(Recommended)**
Filename: 28_49_1014-MCX75310AAS-HEA_Ax.pldm.fwpkg; 28_49_1014-MCX75310AAS-HEA_Ax.pldm.json

Important Note!

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

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

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

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A list of known issues with this release is available at: <https://networking-docs.nvidia.com/connectx7fwrn/28.49.1014/known-issues>

Prerequisites

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

Fixes

The following issues have been fixed in version 28.49.1014:

- o NSM Get-Port-Network-Addresses returned an invalid format on B200/B300 HMC. It now follows the documented non-compact format.
- o An issue that could prevent the adapter's PCIe link from re-establishing after the host resumed from a deep power-down state. This fix improves the reliability of suspend/resume cycles.
- o A DEAD IRISC assert that could occur during TLV NV_DATA flash access by suspending the watchdog while waiting for flash IPC (until timeout), preventing the assert on TLV access.
- o An issue where repeatedly writing NVCONFIG TLVs could cause excessive NV_DATA partition swaps during garbage collection. This rapid cycling could accelerate flash wear (end-of-life at 100,000 erases) and potentially render the device inoperable. Firmware now avoids unnecessary physical writes by returning OK when the requested configuration already exists in flash, and increases the maximum supported NV_DATA partition swaps from 100,000 to 200,000.

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

Enhancements

New features and changes included in version 28.49.1014:

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

Supported Devices and Features

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

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR200/Ethernet 200GbE 2-port QSFP112 PCIe5 x16 MCX755106AC-HEAT Adapter : HPE part numbers P65333-B21 and P65333-H21

Version: 28.49.1014 (**Recommended**)

Filename: 28_49_1014-MCX755106AC-HEAT_HPE_Ax.pldm.fwpkg; 28_49_1014-MCX755106AC-HEAT_HPE_Ax.pldm.json

Important Note!

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

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

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

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A list of known issues with this release is available at: <https://networking-docs.nvidia.com/connectx7fwrn/28.49.1014/known-issues>

Fixes

The following issues have been fixed in version 28.49.1014:

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

Enhancements

New features and changes included in version 28.49.1014:

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

Supported Devices and Features

HPE Part Number	NVIDIA VPI Adapter	PSID
P65333-B21	HPE InfiniBand NDR200/Ethernet 200GbE 2-port QSFP112 PCIe5 x16 MCX755106AC-HEAT Adapter (P65333-B21 and P65333-H21)	MT_0000001108

NVIDIA Firmware Package (FWPKG) for Mellanox MCX562A-ACAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE
Version: 16.35.8008 **(Recommended)**
Filename: 16_35_8008-MCX562A-ACA_Ax_Bx.pldm.fwpkg; 16_35_8008-MCX562A-ACA_Ax_Bx.pldm.json

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

Prerequisites

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

Fixes

No fixes are included in version 16.35.8008.

Enhancements

New features and changes included in version 16.35.8008:

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

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

Supported Devices and Features

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

NVIDIA Firmware Package (FWPKG) for Mellanox MCX623105AS-VDAT Ethernet 200Gb 1-port QSFP56 Adapter for HPE
Version: 22.49.1014 **(Recommended)**
Filename: 22_49_1014-MCX623105AS-VDA_Ax.pldm.fwpkg; 22_49_1014-MCX623105AS-VDA_Ax.pldm.json

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A list of known issues with this release is available at: <https://networking-docs.nvidia.com/connectx6dxfwrn/22.49.1014/known-issues>

Prerequisites

FWPKG will work only if the firmware version flashed on the adapter is 22.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

Fixes

The following issues have been fixed in version 22.49.1014:

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

Enhancements

No new features or changes are included in version 22.49.1014.

Supported Devices and Features

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

NVIDIA Firmware Package (FWPKG) for Mellanox MCX623106AS-CDAT Ethernet 100Gb 2-port QSFP56 Adapter for HPE

Version: 22.49.1014 **(Recommended)**

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

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A list of known issues with this release is available at: <https://networking-docs.nvidia.com/connectx6dxfwrn/22.49.1014/known-issues>

Prerequisites

FWPKG will work only if the firmware version flashed on the adapter is 22.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

Fixes

The following issues have been fixed in version 22.49.1014:

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

Enhancements

No new features or changes are included in version 22.49.1014.

Supported Devices and Features

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

NVIDIA Firmware Package(FWPKG) for HPE Ethernet 10/25Gb 2-port SFP28 MCX512F-ACHT Adapter

Version: 16.35.8008 **(Recommended)**

Filename: 16_35_8008-MCX512F-ACH_Ax_Bx.pldm.fwpkg; 16_35_8008-MCX512F-ACH_Ax_Bx.pldm.json

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

Prerequisites

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

Fixes

No fixes are included in version 16.35.8008.

Enhancements

New features and changes included in version 16.35.8008:

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

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

Supported Devices and Features

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

Firmware - Storage Controller

[Top](#)

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

Enhancements

- ESXi9.1 support.

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

Enhancements

- ESXi9.1 support.

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

Enhancements

- ESXi9.1 support.

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

Enhancements

- ESXi9.1 support.

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

Enhancements

- ESXi9.1 support.

HPE D3610B/D3710B 12Gb SAS Disk Enclosure ROM Flash Component
Version: 6.00 (I) **(Recommended)**
Filename: D3000B.fwpkg

Important Note!

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

Prerequisites

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

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

Fixes

The following fixes were incorporated in this version:

- 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.

Supported Devices and Features

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

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

Enhancements

- ESXi9.1 support.

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

Important Note!

- FWPKG support for PLDM firmware upgrades was introduced. As a transition point, both OS-dependent, offline smart components and OS-independent FWPKG for PLDM firmware package updates were made available. From firmware versions later than 5.61, OS-dependent smart and offline components can only be used on DL325 and DL385 Gen10 with AMD EPYC 7xx2 Series Processors servers due to limitations associated with the PLDM Firmware Package Upgrade. Ref customer advisory [a00119198en_us](#). For servers other than DL325 and DL385 Gen10 with AMD EPYC 7xx2 Series Processors, please use OS-independent FWPKG for PLDM firmware package updates after firmware version 5.61.

Enhancements

- ESXi9.1 support.

Firmware - Storage Fibre Channel

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

[Top](#)

Important Note!

This component is supported only on Gen11 ProLiant servers.

Release notes:

[Broadcom Release notes](#)

This Firmware package contains following firmware versions:

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

Fixed the following:

- Garbled characters are observed in the System Utilities(F9) configuration screens with Japanese Environment when HPE Emulex Fibre Channel Host Bus Adapter is installed on ProLiant Gen11 and ProLiant Gen12 servers

Added Following Enhancements:

- Add logic to detect Small Form-Factor Pluggable (SFP) is non-responsive
- Return a new state in Acquisition and Control Query Executive (ACQE) to indicate Small Form-Factor Pluggable(SFP) is non-responsive

Prerequisites

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

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

The minimum version for adapter to support PLDM is 14.0.499.25

Fixes

Fixed the following:

Garbled characters are observed in the System Utilities(F9) configuration screens with Japanese Environment when HPE Emulex Fibre Channel Host Bus Adapter is installed on ProLiant Gen11 and ProLiant Gen12 servers

Enhancements

This Firmware package contains following firmware versions:

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

Added Following Enhancements:

Add logic to detect Small Form-Factor Pluggable (SFP) is non-responsive
Return a new state in Acquisition and Control Query Executive (ACQE) to indicate Small Form-Factor Pluggable(SFP) is non-responsive

Supported Devices and Features

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

32Gb Fibre Channel Host Bus Adapter:

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

64Gb Fibre Channel Host Bus Adapter:

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

HPE Firmware Flash for Emulex 32Gb and 64Gb Fibre Channel Host Bus Adapters
Version: 14.4.731.21 (**Recommended**)
Filename: PP14.4.731.21_header.pldm.fwpgk

Important Note!

This component is supported only on Gen12 ProLiant and Gen11 AMD servers.

Release notes:

[Broadcom Release notes](#)

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1620E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.4.731.21	14.4.731.21	14.4.731.20	14.4.718.0
HPE SN1720E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.4.731.21	14.4.731.21	14.4.731.20	14.4.718.0

Fixed the following:

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

Added Following Enhancements:

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

Prerequisites

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

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

Fixes

Fixed the following:

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

Enhancements

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1620E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.4.731.21	14.4.731.21	14.4.731.20	14.4.718.0
HPE SN1720E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.4.731.21	14.4.731.21	14.4.731.20	14.4.718.0

Added Following Enhancements:

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

Supported Devices and Features

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

32Gb FC Adapter:

- o HPE SN1620E 32Gb Dual port Fibre Channel Host Bus Adapter

64Gb FC Adapter:

- o HPE SN1720E 64Gb Dual port Fibre Channel Host Bus Adapter

Important Note!

Release Notes:
[HPE QLogic Adapters Release Notes](#)

This Firmware package contains following firmware versions:

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

- Fixed the following:
- o Updated UEFI signature validity

Fixes

Updated UEFI signature validity

Enhancements

This Firmware package contains following firmware versions:

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

Supported Devices and Features

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

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

Enhancements

Added support for vSphere 9.1 OS

Software - Storage Controller

[Top](#)

HPE MegaRAID Storage Administrator StorCLI for VMware9.1 (For Gen10P and Gen11 Controllers)

Version: 2026.03.01 **(Recommended)**

Filename: cp070800.compsig; cp070800.zip

Important Note!

- o Actual ESXi Version is 0007.3604.0000.0000

Fixes

- o Fix an issue that storcli show /cx/ex/sx poh (power on hour) command report error on NVMe drives
- o Fix an issue that PSOC update is not allowing when the part number is beyond 65535

Enhancements

- o Return error when enabling encryption with 256 characters for keyid in Drive Security command
- o Display the controller serial number as "NA" when not programmed

HPE MegaRAID Storage Administrator StorCLI for VMware9.1 (for MR932i-p Controller)

Version: 2026.04.01 **(Recommended)**

Filename: cp070799.compsig; cp070799.zip

Important Note!

- o **Actual ESXi Version is 008.00aa.0000.00bb, even though the file name indicates 008.00aa.03bb-10EM.900.0.xxxxxxxx.**

Fixes

- o Fix an issue that RIAD 60 volume with preserved cache is reporting incorrect volume size in show preservedcache command
- o Fix an issue that volume info is showing "SCSI Status: failure" when background operations on the volume are going
- o Fix an issue that storcli2 fails to set firstdeviceid to default value 65535
- o Fix an issue that add map command returns incorrect error message
- o Fix an issue that improper output while setting Consistency Check execfrequency for weeks/days
- o Fix a rare issue that storcli2 may crash on querying the controller
- o Fix an issue that multiple error messages may show when show POH (Power On Hours) on drives
- o Fix an issue that volume is shown as virtual drive in show aso command
- o Fix an issue that default strip size listed as 65KB instead of 64KB
- o Fix an issue that incorrect message is shown while setting invalid FirstdeviceID
- o Fix an issue that one event is missing when the requested number of events is less than the current available events count

Enhancements

- o Update property "Security QR Enabled" as per latest MPI changes to "Security QR Secured" in show securebootinfo command
- o Migrate to Openssl 3.5.1
- o Updated CLI to display the PQC Algorithm details
- o Implement the Enhanced string in CLI prereview configuration for the non-importable foreign reason
- o Add Online Capacity Expansion limitation: No Foreign Config Import Allowed Until Completion
- o Provide method for removal of a volume from the exclusion list from patrol read
- o Add the NVMe drive smart info with the property "Self-test status" if operation is ongoing
- o Displaying missing Controller properties in storcli2. Added below CLI commands:
 - o /cx show dmhi
 - o /cx show ssddefaults
 - o /cx show nvmedefaults

Software - Storage Fibre Channel

[Top](#)

HPE QLogic Fibre Channel driver component for VMware vSphere 9.1

Version: 2026.04.01 **(Recommended)**

Filename: cp070516.compsig; cp070516.zip

Important Note!

This component is supported only on Gen11 ProLiant servers.

Release Notes:

[HPE QLogic Adapters Release Notes](#)

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

This driver is only supported on VMware ESXi 9.1

Prerequisites

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

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

Enhancements

Driver version 91.5.5.86.0

This driver is only supported on VMware ESXi 9.1

Supported Devices and Features

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

32Gb Fibre Channel Host Bus Adapter:

- 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 Gen11 and Gen12 Servers

Version: 802.12.7.0 **(Recommended)**

Filename: amsdvComponent_802.12.7.0.8-1.zip

Fixes

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

Enhancements

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

HPE Agentless Management Bundle Smart Component on ESXi for Gen11 and Gen12 Servers

Version: 2026.07.01 **(Recommended)**

Filename: cp072012.compsig; cp072012.zip

Prerequisites

For HPE servers with iLO 7:

Ensure that the iLO Virtual NIC(VNIC) feature is enabled. Please refer to the HPE iLO User Guide for VNIC configuration procedure

Fixes

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

Enhancements

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

BIOS - System ROM

[Top](#)

ROM Flash Firmware Package - HPE ProLiant DL110 Gen11 (U62) Servers Version:
2.94_06-25-2026 (**Recommended**)
Filename: U62_2.94_06_25_2026.fwpkg

Important Note!

Important Notes:

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.215.0 (2.80_12_04_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 DL110 Gen11 System ROM - U62

Release Version:

2.94_06-25-2026

Last Recommended or Critical Revision:

2.94_06-25-2026

Previous Revision:

2.92_05-28-2026

Firmware Dependencies:

None

Enhancements/New Features:

Added a new BIOS Redfish Special Properties resource that dynamically adjusts RBSU setting visibility based on processor capabilities, improving HPE OneView profile compatibility for features.

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

Problems Fixed:

Addressed an issue where the system could fail to enumerate PCIe devices behind some switch cards and resulting in bus number conflicts and missing downstream devices.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.215.0 (2.80_12_04_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 could fail to enumerate PCIe devices behind some switch cards and resulting in bus number conflicts and missing downstream devices.

Known Issues:

None

Enhancements

Added a new BIOS Redfish Special Properties resource that dynamically adjusts RBSU setting visibility based on processor capabilities, improving HPE OneView profile compatibility for features.

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

ROM Flash Firmware Package - HPE ProLiant DL320/ML110 Gen11 (U63) Servers
Version: 2.94_06-25-2026 (**Recommended**)
Filename: U63_2.94_06_25_2026.fwpkg

Important Note!

Important Notes:

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.215.0 (2.80_12_04_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 DL320 Gen11/ML110 Gen11 Servers System ROM - U63

Release Version:

2.94_06-25-2026

Last Recommended or Critical Revision:

2.94_06-25-2026

Previous Revision:

2.92_05-28-2026

Firmware Dependencies:

None

Enhancements/New Features:

Added a new BIOS Redfish Special Properties resource that dynamically adjusts RBSU setting visibility based on processor capabilities, improving HPE OneView profile compatibility for features.

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

Problems Fixed:

Addressed an issue where the system could fail to enumerate PCIe devices behind some switch cards and resulting in bus number conflicts and missing downstream devices.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.215.0 (2.80_12_04_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 could fail to enumerate PCIe devices behind some switch cards and resulting in bus number conflicts and missing downstream devices.

Known Issues:

None

Enhancements

Added a new BIOS Redfish Special Properties resource that dynamically adjusts RBSU setting visibility based on processor capabilities, improving HPE OneView profile compatibility for features.

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

ROM Flash Firmware Package - HPE Alletra 4110/Alletra 4120/ProLiant DL380a Gen11 (U58) Servers
Version: 2.94_06-25-2026 (**Recommended**)
Filename: U58_2.94_06_25_2026.fwpkg

Important Note!

Important Notes:

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.215.0 (2.80_12_04_2025).

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

Deliverable Name:

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

Release Version:

2.94_06-25-2026

Last Recommended or Critical Revision:

2.94_06-25-2026

Previous Revision:

2.92_05-28-2026

Firmware Dependencies:

None

Enhancements/New Features:

Added a new BIOS Redfish Special Properties resource that dynamically adjusts RBSU setting visibility based on processor capabilities, improving HPE OneView profile compatibility for features.

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

Problems Fixed:

Addressed an issue where the system could fail to enumerate PCIe devices behind some switch cards and resulting in bus number conflicts and missing downstream devices.

Known Issues:

None

Fixes**Important Notes:**

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.215.0 (2.80_12_04_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 could fail to enumerate PCIe devices behind some switch cards and resulting in bus number conflicts and missing downstream devices.

Known Issues:

None

Enhancements

Added a new BIOS Redfish Special Properties resource that dynamically adjusts RBSU setting visibility based on processor capabilities, improving HPE OneView profile compatibility for features.

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

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

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

Filename: U65_2.50_06_25_2026.fwpkg

Important Note!**Important Notes:**

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

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

Deliverable Name:

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

Release Version:

2.50_06-25-2026

Last Recommended or Critical Revision:

2.50_06-25-2026

Previous Revision:

2.42_03-05-2026

Firmware Dependencies:

None

Enhancements/New Features:

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

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

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

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

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

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

nt Log (IML) message for Pensando Pollara network adapter golden image detection to align with current vendor documentation.

Increased Asset Tag size from 32 bytes to 64 bytes.

Updated UEFI BIOS with new HPE branding.

Problems Fixed:

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

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

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

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

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

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

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

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

Known Issues:

None

Fixes

Implemented improvements to enhance user experience and optimize functionality.

Enhancements

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

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

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

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

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

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

nt Log (IML) message for Pensando Pollara network adapter golden image detection to align with current vendor documentation.

Increased Asset Tag size from 32 bytes to 64 bytes.

Updated UEFI BIOS with new HPE branding.

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

Version: 2.94_06-25-2026 (**Recommended**)

Filename: U59_2.94_06_25_2026.fwpkg

Important Note!

Important Notes:

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.215.0 (2.80_12_04_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 DL560 Gen11 System ROM - U59

Release Version:

2.94_06-25-2026

Last Recommended or Critical Revision:

2.94_06-25-2026

Previous Revision:

2.92_05-28-2026

Firmware Dependencies:

None

Enhancements/New Features:

Added a new BIOS Redfish Special Properties resource that dynamically adjusts RBSU setting visibility based on processor capabilities, improving HPE OneView profile compatibility for features.

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

Problems Fixed:

Addressed an issue where the system could fail to enumerate PCIe devices behind some switch cards and resulting in bus number conflicts and missing downstream devices.

Known Issues:

None

Fixes**Important Notes:**

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.215.0 (2.80_12_04_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 could fail to enumerate PCIe devices behind some switch cards and resulting in bus number conflicts and missing downstream devices.

Known Issues:

None

Enhancements

Added a new BIOS Redfish Special Properties resource that dynamically adjusts RBSU setting visibility based on processor capabilities, improving HPE OneView profile compatibility for features.

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

ROM Flash Firmware Package - HPE ProLiant ML350/DL360/DL380 Gen11 (U54) Servers
Version: 2.94_06-25-2026 (**Recommended**)
Filename: U54_2.94_06_25_2026.fwpkg

Important Note!**Important Notes:**

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.215.0 (2.80_12_04_2025).

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

Deliverable Name:

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

Release Version:

2.94_06-25-2026

Last Recommended or Critical Revision:

2.94_06-25-2026

Previous Revision:

2.92_05-28-2026

Firmware Dependencies:

None

Enhancements/New Features:

Added a new BIOS Redfish Special Properties resource that dynamically adjusts RBSU setting visibility based on processor capabilities, improving HPE OneView profile compatibility for features.

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

Problems Fixed:

Addressed an issue where the system could fail to enumerate PCIe devices behind some switch cards and resulting in bus number conflicts and missing downstream devices.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.215.0 (2.80_12_04_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 could fail to enumerate PCIe devices behind some switch cards and resulting in bus number conflicts and missing downstream devices.

Known Issues:

None

Enhancements

Added a new BIOS Redfish Special Properties resource that dynamically adjusts RBSU setting visibility based on processor capabilities, improving HPE OneView profile compatibility for features.

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

ROM Flash Universal Firmware Package - HPE ProLiant DL145 Gen11 (A58) Servers

Version: 2.11_06-11-2026 (**Optional**)

Filename: A58_2.11_06_11_2026.fwpkg

Important Note!

Important Notes:

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

Deliverable Name:

HPE DL145 Gen11 System ROM - A58

Release Version:

2.11_06-11-2026

Last Recommended or Critical Revision:

2.10_04-02-2026

Previous Revision:

2.10_04-02-2026

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Corrected a display issue affecting temperature readings.

Known Issues:

None

Fixes

Important Notes:

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:

Corrected a display issue affecting temperature readings.

Known Issues:

None

ROM Flash Universal Firmware Package - HPE ProLiant DL325/DL345 Gen11 (A56) Servers

Version: 3.16_06-25-2026 (**Recommended**)

Filename: A56_3.16_06_25_2026.fwpkg

Important Note!

Important Notes:

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

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

This version of the System ROM updates the default Secure Boot forbidden signature database (dbx) for CVE-2025-47827. Updating the System ROM alone does not apply the updated dbx. Users must reset Secure Boot keys to manufacturing defaults, or enroll the updated dbx through Windows, Linux, RBSU, or Redfish.

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

Deliverable Name:

HPE ProLiant DL325 Gen11/DL345 Gen11 System ROM - A56

Release Version:

3.16_06-25-2026

Last Recommended or Critical Revision:

3.16_06-25-2026

Previous Revision:

3.14_04-30-2026

Firmware Dependencies:

None

Enhancements/New Features:

Added a new BIOS Redfish Special Properties resource that dynamically adjusts RBSU setting visibility based on processor capabilities, improving HPE OneView profile compatibility.

Added the Integrated Management Log (IML) message for Pensando Pollara network adapter golden image detection to align with current vendor documentation.

Resolved an issue on AMD Turin platforms with 255 or more logical cores where setting the RBSU x2APIC option to Auto could trigger unnecessary full memory retraining on subsequent boots, increasing boot time.

Problems Fixed:

Updated the default Secure Boot forbidden signature database (dbx) to address CVE-2025-47827. Updating the System ROM alone does not apply the new dbx; users must reset Secure Boot keys to manufacturing defaults or enroll the updated dbx through Windows, Linux, RBSU, or Redfish.

Resolved an issue where visual noise could appear on the OEM logo during POST screen display on Genoa-based platforms.

Resolved an issue on AMD Turin platforms with 255 or more logical cores where setting the RBSU x2APIC option to Auto could trigger unnecessary full memory retraining on subsequent boots, increasing boot time.

Resolved an issue where Tiered Memory Page Migration (TPM) devices were not generated in the ACPI SSDT table when AMD DMA Protection was enabled, preventing the TPM and DMA devices from appearing under Windows Device Manager.

Resolved an issue where the SMBIOS Type 202, 232, and 237 records may be inaccurate.

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

Resolved an issue where the shell command sysconfig enabledcoresperproc returned incorrect or inconsistent core count options compared to the RBSU GUI.

Known Issues:

None

Fixes

Important Notes:

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

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

This version of the System ROM updates the default Secure Boot forbidden signature database (dbx) for CVE-2025-47827. Updating the System ROM alone does not apply the updated dbx. Users must reset Secure Boot keys to manufacturing defaults, or enroll the updated dbx through Windows, Linux, RBSU, or Redfish.

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:

Updated the default Secure Boot forbidden signature database (dbx) to address CVE-2025-47827. Updating the System ROM alone does not apply the new dbx; users must reset Secure Boot keys to manufacturing defaults or enroll the updated dbx through Windows, Linux, RBSU, or Redfish.

Resolved an issue where visual noise could appear on the OEM logo during POST screen display on Genoa-based platforms.

Resolved an issue on AMD Turin platforms with 255 or more logical cores where setting the RBSU x2APIC option to Auto could trigger unnecessary full memory retraining on subsequent boots, increasing boot time.

Resolved an issue where Tiered Memory Page Migration (TPM) devices were not generated in the ACPI SSDT table when AMD DMA Protection was enabled, preventing the TPM and DMA devices from appearing under Windows Device Manager.

Resolved an issue where the SMBIOS Type 202, 232, and 237 records may be inaccurate.

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

Resolved an issue where the shell command sysconfig enabledcoresperproc returned incorrect or inconsistent core count options compared to the RBSU GUI.

Known Issues:

None

Enhancements

Added a new BIOS Redfish Special Properties resource that dynamically adjusts RBSU setting visibility based on processor capabilities, improving HPE OneView profile compatibility.

Added the Integrated Management Log (IML) message for Pensando Pollara network adapter golden image detection to align with current vendor documentation.

Resolved an issue on AMD Turin platforms with 255 or more logical cores where setting the RBSU x2APIC option to Auto could trigger unnecessary full memory retraining on subsequent boots, increasing boot time.

ROM Flash Universal Firmware Package - HPE ProLiant DL365/DL385 Gen11 (A55) Servers
Version: 3.16_06-25-2026 **(Recommended)**
Filename: A55_3.16_06_25_2026.fwpkg

Fixes

Important Notes:

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

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

This version of the System ROM updates the default Secure Boot forbidden signature database (dbx) for CVE-2025-47827. Updating the System ROM alone does not apply the updated dbx. Users must reset Secure Boot keys to manufacturing defaults, or enroll the updated dbx through Windows, Linux, RBSU, or Redfish.

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:

Updated the default Secure Boot forbidden signature database (dbx) to address CVE-2025-47827. Updating the System ROM alone does not apply the new dbx; users must reset Secure Boot keys to manufacturing defaults or enroll the updated dbx through Windows, Linux, RBSU, or Redfish.

Resolved an issue where visual noise could appear on the OEM logo during POST screen display on Genoa-based platforms.

Resolved an issue on AMD Turin platforms with 255 or more logical cores where setting the RBSU x2APIC option to Auto could trigger unnecessary full memory retraining on subsequent boots, increasing boot time.

Resolved an issue where Tiered Memory Page Migration (TMPM) devices were not generated in the ACPI SSDT table when AMD DMA Protection was enabled, preventing the TMPM and DMA devices from appearing under Windows Device Manager.

Resolved an issue where the SMBIOS Type 202, 232, and 237 records may be inaccurate.

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

Resolved an issue where the shell command sysconfig enabledcoresperproc returned incorrect or inconsistent core count options compared to the RBSU GUI.

Known Issues:

None

Enhancements

Added a new BIOS Redfish Special Properties resource that dynamically adjusts RBSU setting visibility based on processor capabilities, improving HPE OneView profile compatibility.

Added the Integrated Management Log (IML) message for Pensando Pollara network adapter golden image detection to align with current vendor documentation.

Resolved an issue on AMD Turin platforms with 255 or more logical cores where setting the RBSU x2APIC option to Auto could trigger unnecessary full memory retraining on subsequent boots, increasing boot time.

Driver - Lights-Out Management

HPE iLO Native Driver for ESXi 8.0 and ESXi 9.0
Version: 10.9.1 **(Recommended)**
Filename: ilo-driver_800.10.9.1.4-10EM.800.1.0.20613240.zip

[Top](#)

Fixes

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

Get connected

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