

VMware Deliverable Release Notes

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

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

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

[OS Support Tool for HPE Synergy](#)

Information on HPE Synergy Software Releases is available at:

[HPE Synergy Software Releases - Overview](#)

Gen10 SPP 2026.03.00.00 Release Notes for VMware ESXi 9.0

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

Driver - Lights-Out Management [Top](#)

HPE iLO Native Driver for ESXi 8.0 and ESXi 9.0

Version: 10.9.1 (**Recommended**)

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

Fixes

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

Driver - Network [Top](#)

HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0

Version: 2025.11.00 (**Recommended**)

Filename: cp068543.compsig; cp068543.zip

Important Note!

- This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.
- HPE recommends the *HPE Broadcom NetXtreme-E Firmware Version, 235.1.160000* or later, for use with this driver.

Fixes

This product fixes issue where the RoCE driver updated the RoCE priority from the Queue Pair and Address Handle context by suppressing that value and not propagating it to the L2 driver.

Enhancements

This product enhances the completion queue design to support two completion queues for each Notification Queue

Supported Devices and Features

This product supports the following network adapters:

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

HPE Intel i40en Driver for VMware vSphere 9.0

Version: 2025.11.00 (**Recommended**)

Filename: cp068941.compsig; cp068941.zip

Important Note!

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

HPE recommends the firmware provided in *HPE Intel Online Firmware Upgrade Utility for VMware*, version 3.25.0 or later, for use with this driver.

Enhancements

This product VMware ESXi 9 supported.

Supported Devices and Features

This product supports the following network adapters:

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

HPE Intel igbn Driver for VMware vSphere 9.0
Version: 2025.11.00 (**Recommended**)
Filename: cp067481.compsig; cp067481.zip

Important Note!

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

HPE recommends the firmware provided in *HPE Intel Online Firmware Upgrade Utility for VMware*, version 3.26.1 or later, for use with this driver.

Enhancements

This product enhanced the compatibility with firmware.

Supported Devices and Features

These drivers support the following network adapters:

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

HPE Intel ixgben Driver for VMware vSphere 9.0
Version: 2026.03.00 (**Recommended**)
Filename: cp070244.compsig; cp070244.zip

Important Note!

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

- o HPE recommends the firmware provided in *HPE Intel Online Firmware Upgrade Utility for VMware*, version 3.27.0 or later, for use with this driver.
- o HPE recommends the firmware provided in *Intel Firmware Package For E610-IT4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter*, version 1.22 or later, for use with this driver

Fixes

- o This product fixed warning logs generated during driver unload.
- o This product fixed PF reset reporting to VF.
- o This product fixed auto-advertised speeds for E610 adapters.

Supported Devices and Features

These drivers support the following network adapters:

- o HPE Ethernet 10Gb 2-port 560SFP+ Adapter
- o HPE Ethernet 10Gb 2-port 560FLR-SFP+ Adapter
- o HPE Ethernet 10Gb 2-port 561T Adapter
- o HPE Ethernet 10Gb 2-port 561FLR-T Adapter
- o HPE Ethernet 10Gb 2-port 562T Adapter
- o HPE Ethernet 10Gb 2-port 562FLR-T Adapter
- o Intel E610-IT4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE

HPE QLogic FastLinQ 10/25/50 GbE Multifunction Driver for VMware vSphere 9.0
Version: 2026.03.00 (**Recommended**)
Filename: cp070111.compsig; cp070111.zip

Important Note!

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

HPE recommends the firmware provided as below for use with these drivers,

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

Fixes

- o This product fixed an issue where it misses RX byte statistics for LRO queues in ENS mode

Enhancements

- o This product now enabled DRSS by default for non-ENS mode to improve RX traffic distribution and reduce latency between hosts and federated sites.

Supported Devices and Features

This product supports the following network adapters:

- o HPE Ethernet 10Gb 2-port 521T Adapter
- o HPE Ethernet 10Gb 2-port 524SFP+ Adapter
- o HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter
- o HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Converged Network Adapter
- o HPE StoreFabric CN1200R-T Converged Network Adapter
- o HPE StoreFabric CN1300R Converged Network Adapter
- o HPE Ethernet 10/25Gb 2-port SFP28 QL41232HQCU OCP3 Adapter
- o HPE Ethernet 10/25Gb 2-port SFP28 QL41232HLCU Adapter
- o HPE Ethernet 10Gb 4-port SFP+ QL41134HLCU Adapter
- o HPE Ethernet 10Gb 2-port BaseT QL41132HLRJ Adapter
- o HPE Ethernet 10Gb 2-port BaseT QL41132HQRJ OCP3 Adapter
- o HPE Ethernet 10Gb 2-port SFP+ QL41132HQCU OCP3 Adapter
- o HPE Ethernet 10Gb 2-port SFP+ QL41132HLCU Adapter

HPE QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 9.0

Version: 2025.03.00 (**Recommended**)

Filename: cp064706.compsig; cp064706.zip

Important Note!

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

HPE recommends the firmware provided in *HPE QLogic NX2 Online Firmware Upgrade Utility for VMware*, version 1.37.0 or later, for use with this driver.

Enhancements

This product now supports VMware vSphere ESXi 9.

Supported Devices and Features

These drivers support the following network adapters:

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

Intel icen Driver for VMware vSphere 9.0

Version: 2026.03.00 (**Recommended**)

Filename: cp068815.compsig; cp068815.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.

Fixes

- o This product fixed RDMA configuration cleanup during transitions between Native and ENS modes, as well as state changes.
- o This product removed warning messages during driver unload by improving cleanup of TX scheduler configuration.
- o This product fixed VLAN list cleanup during VF reset, ensuring VLAN properties can be configured correctly by the OS.

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

net-mst kernel module driver component for VMware ESXi 9uX

Important Note!

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

Prerequisites

NA

Fixes

Fixes for NMST- 4.34.1.11:

- o Fixed memory leak issue in mlxlink. It caused the process's memory usage to continuously increase until it is eventually killed by the out-of-memory (OOM) killer. Memory is now correctly freed at the end of each execution.

Enhancements

NMST version 4.34.1.11

Supported Devices and Features

HPE Part Number	Device Name	PSID
764282-B21	HPE InfiniBand QDR/Ethernet 10Gb 2-port 544+M Adapter	HP_1350110023
764283-B21	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+M Adapter	HP_1360110017
764284-B21	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter	HP_1370110017
P24837-B21	HPE Ethernet 10/25Gb 2-port 642SFP28 Adapter	HPE0000000054
P11338-B21	HPE Ethernet 10Gb 2-port 548SFP+ Adapter	HP_1200111023
764285-B21	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter	HP_1380110017
764286-B21	HPE InfiniBand QDR/Ethernet 10Gb 2-port 544+FLR-QSFP Adapter	HP_1390110023
825110-B21	HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter	HP_2180110032
825111-B21	HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter	HP_2190110032
872726-B21	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	HPE0000000009
879482-B21	HPE InfiniBand FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter	HPE0000000022
868779-B21	HPE Synergy 6410C 25/50Gb Ethernet Adapter	HPE0000000006
779793-B21	HPE Ethernet 10Gb 2-port 546SFP+ Adapter	HP_1200111023
779799-B21	HPE Ethernet 10Gb 2-port 546FLR-SFP+ Adapter	HP_2240110004
817749-B21	HPE Ethernet 25Gb 2-port 640FLR-SFP28 Adapter	HP_2690110034
817753-B21	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	HP_2420110034
P21927-B21	HPE Ethernet 100Gb 2-port QSFP28 MCX516A-CCHT Adapter	MT_0000000417
P10112-B21	HPE Ethernet 10/25Gb 2-port SFP28 MCX562A-ACAI OCP3 Adapter	MT_0000000241
P13188-B21	HPE Ethernet 10/25Gb 2-port SFP28 MCX512F-ACHT Adapter	MT_0000000416
P11341-B21	HPE Ethernet 10Gb 2-port SFP+ MCX4621A-ACAB OCP3 Adapter	MT_0000000238
P21930-B21	HPE Ethernet 10Gb 2-port SFP+ MCX4121A-XCHT Adapter	MT_0000000414
874253-B21	HPE Ethernet 100Gb 1-port 842QSFP28 Adapter	HPE0000000014
P25960-B21	HPE Ethernet 100Gb 2-Port QSFP56 MCX623106AS-CDAT Adapter	MT_0000000437
P06154-B21	HPE InfiniBand HDR/Ethernet 200Gb 1-port 940QSFP56 x16 Adapter	HPE0000000034
P06250-B21	HPE InfiniBand HDR100/Ethernet 100Gb 1-port 940QSFP56 x16 Adapter	HPE0000000035
P06251-B21	HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 x16 Adapter	HPE0000000036
P23664-B21	HPE InfiniBand HDR/Ethernet 200Gb 1-port MCX653105A-HDAT QSFP56 x16 Adapter	MT_0000000451
P23665-B21	HPE InfiniBand HDR100/Ethernet 100Gb 1-port MCX653105A-ECAT QSFP56 x16 Adapter	MT_0000000452
P23666-B21	HPE InfiniBand HDR100/Ethernet 100Gb 2-port MCX653106A-ECAT QSFP56 x16 Adapter	MT_0000000453
P10180-B21	Mellanox MCX623105AS-VDAT Ethernet 200Gb 1-port QSFP56 Adapter for HPE	MT_0000000435
P31246-B21	HPE Ethernet 100Gb 1-port QSFP28 PCIe3 x16 MCX515A-CCAT Adapter	MT_0000000591
P31323-B21	HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 OCP3 MCX653435A-HDAI Adapter	MT_0000000592
P31348-B21	HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 OCP3 MCX653436A-HDAI Adapter	MT_0000000593
P31324-B21	HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 MCX653106A-HDAT Adapter	MT_0000000594
P42041-B21	Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	MT_0000000551
P42044-B21	Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	MT_0000000575

Prerequisites

NA

Enhancements

VM9uX nmst 4.34.1.11

Driver - Storage Controller

[Top](#)

HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 9.0

Version: 2026.03.01 **(Recommended)**

Filename: cp068885.compsig; cp068885.zip

Important Note!

- o Actual Version is 7.736.02.00

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 ProLiant Gen10 Smart Array and Gen10 Plus and Gen11 Smart RAID Controller Driver for VMware vSphere 9.0 (Driver Component).

Version: 2026.01.01 **(Recommended)**

Filename: cp069363.compsig; cp069363.zip

Important Note!

- o Actual ESXi8.0 driver version is 80.4880.0.109
- o Actual ESXi9.0 driver version is 90.4880.0.109
- o HPE Service Pack for ProLiant (SPP) provides a fully qualified recipe for specific firmware and drivers released within the same cycle, making it the primary recommended choice.
- o It is strongly recommended to use controller firmware version 8.00 for SR SAS/SATA controllers and firmware version 03.01.44.040 for SR tri-mode controllers, along with Windows 2022/2025 driver version 1016.30.0.1014, Linux driver version 2.1.38-022, and VMware ESXi driver version 80.4880.0.109/90.4880.0.109, as this combination has been fully qualified.
- o For Windows 2016 driver, please use 1010.84.0.1012 in below link: XXXX
- o For Windows 2019 driver, please use 1016.10.0.1004 in below link: <https://www.hpe.com/global/swpublishing/MTX-29e86213c3ab4e94b0b54906f7>

Fixes

- Fixed an issue that device is inappropriately reported as invalid and is removed during reset.
-

Firmware - Network

[Top](#)

Broadcom Firmware Package for BCM57412 adapter

Version: 235.1.164.14 **(Recommended)**

Filename: BCM235.1.164.14_BCM957412A4121HC.fwpkg; BCM235.1.164.14_BCM957412A4121HC.json

Important Note!

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

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

- o Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 235.1.122.0 or later
- o HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-235.1.154.0 or later
- o HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.11.00 or later

Fixes

- o This product fixes the issue where the firmware version details failed to update and the card showed as not operational after upgrading BCM5741x adapters
- o This product fixes the issue where failed to detect a 10GBASE-LR SFP+ causing incorrect defaults and a link failure.
- o This product fixes the issue where the adapter is unable to establish link after rebooting when using the "HPE 10GBASE-T SFP+ 30m RJ45 Transceiver" HPE PN 813874-B21 with vendor PN SP7053-HPE.
- o This product fixed the issue where PCIe Negotiated Link Width is displaying as x4 instead of x8.
- o This product fixed the issue where NICs with LR cables and transceivers showing SR mode.

Enhancements

This product enhancement enables a self-shutdown feature to prevent overheating when certain monitoring features are disabled.

It applies only to newer hardware that originally shipped with firmware version 223.1.135.7 or higher and is not enabled on earlier revisions.

Supported Devices and Features

This product supports the following network adapters:

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

Broadcom Firmware Package for BCM57412 OCP3 adapter

Version: 235.1.164.14 **(Recommended)**

Important Note!

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

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

- o Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 235.1.122.0 or later
- o HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-235.1.154.0 or later
- o HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.11.00 or later

Fixes

- o This product fixes the issue where the firmware version details failed to update and the card showed as not operational after upgrading BCM5741x adapters
- o This product fixes the issue where failed to detect a 10GBASE-LR SFP+ causing incorrect defaults and a link failure.
- o This product fixes the issue where iLO BMC shared IP on OCP NIC, link flap occurred during OS reboot.
- o This product fixes the issue where the adapter is unable to establish link after rebooting when using the "HPE 10GBASE-T SFP+ 30m RJ45 Transceiver" HPE PN 813874-B21 with vendor PN SP7053-HPE.
- o This product fixed the issue where the System cannot power on and IML log shows Critical Temperature Threshold Exceeded.
- o This product fixed the issue where PCIe Negotiated Link Width is displaying as x4 instead of x8.
- o This product fixed the issue where NICs with LR cables and transceivers showing SR mode.

Enhancements

This product enhancement enables a self-shutdown feature to prevent overheating when certain monitoring features are disabled.

It applies only to newer hardware that originally shipped with firmware version 223.1.135.7 or higher and is not enabled on earlier revisions.

Supported Devices and Features

This product supports the following network adapters:

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

Broadcom Firmware Package for BCM57414 adapter

Version: 235.1.164.14 (**Recommended**)

Filename: BCM235.1.164.14_BCM957414A4142HC.fwpkg; BCM235.1.164.14_BCM957414A4142HC.json

Important Note!

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

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

- o Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 235.1.122.0 or later
- o HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-235.1.154.0 or later
- o HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.11.00 or later

Fixes

- o This product fixes the issue where the firmware version details failed to update and the card showed as not operational after upgrading BCM5741x adapters
- o This product fixes the issue where failed to detect a 10GBASE-LR SFP+ causing incorrect defaults and a link failure.
- o This product fixes the issue where the adapter is unable to establish link after rebooting when using the "HPE 10GBASE-T SFP+ 30m RJ45 Transceiver" HPE PN 813874-B21 with vendor PN SP7053-HPE.
- o This product fixed the issue where NICs with LR cables and transceivers showing SR mode.

Enhancements

This product enhancement enables a self-shutdown feature to prevent overheating when certain monitoring features are disabled.

It applies only to newer hardware that originally shipped with firmware version 223.1.135.7 or higher and is not enabled on earlier revisions.

Supported Devices and Features

This product supports the following network adapters:

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

Broadcom Firmware Package for BCM57414 OCP3 adapter

Version: 235.1.164.14 (**Recommended**)

Filename: BCM235.1.164.14_BCM957414N4140HC.fwpkg; BCM235.1.164.14_BCM957414N4140HC.json

Important Note!

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

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

- o Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 235.1.122.0 or later
- o HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-235.1.154.0 or later
- o HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.11.00 or later

Fixes

- o This product fixes the issue where the firmware version details failed to update and the card showed as not operational after upgrading BCM5741x adapters
- o This product fixes the issue where failed to detect a 10GBASE-LR SFP+ causing incorrect defaults and a link failure.
- o This product fixes the issue where iLO BMC shared IP on OCP NIC, link flap occurred during OS reboot.
- o This product fixes the issue where the adapter is unable to establish link after rebooting when using the "HPE 10GBASE-T SFP+ 30m RJ45 Transceiver" HPE PN 813874-B21 with vendor PN SP7053-HPE.
- o This product fixed the issue where the System cannot power on and IML log shows Critical Temperature Threshold Exceeded.
- o This product fixed the issue where NICs with LR cables and transceivers showing SR mode.

Enhancements

This product enhancement enables a self-shutdown feature to prevent overheating when certain monitoring features are disabled. It applies only to newer hardware that originally shipped with firmware version 223.1.135.7 or higher and is not enabled on earlier revisions.

Supported Devices and Features

This product supports the following network adapter:

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

Broadcom Firmware Package for BCM57416 adapter

Version: 235.1.164.14 **(Recommended)**

Filename: BCM235.1.164.14_BCM957416A4162HC.fwpkg; BCM235.1.164.14_BCM957416A4162HC.json

Important Note!

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

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

- o Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 235.1.122.0 or later
- o HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-235.1.154.0 or later
- o HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.11.00 or later

Fixes

- o This product fixes the issue where the firmware version details failed to update and the card showed as not operational after upgrading BCM5741x adapters
- o This product fixes the issue where failed to detect a 10GBASE-LR SFP+ causing incorrect defaults and a link failure.
- o This product fixes the issue where the adapter is unable to establish link after rebooting when using the "HPE 10GBASE-T SFP+ 30m RJ45 Transceiver" HPE PN 813874-B21 with vendor PN SP7053-HPE.
- o This product fixes the issue where the Firmware update failed on 4 MB flash cards.

Enhancements

This product enhancement enables a self-shutdown feature to prevent overheating when certain monitoring features are disabled. It applies only to newer hardware that originally shipped with firmware version 223.1.135.7 or higher and is not enabled on earlier revisions.

Supported Devices and Features

This product supports the following network adapters:

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

Broadcom Firmware Package for BCM57416 OCP3 adapter

Version: 235.1.164.14 **(Recommended)**

Filename: BCM235.1.164.14_BCM957416N4160HC.fwpkg; BCM235.1.164.14_BCM957416N4160HC.json

Important Note!

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

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

- o Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 235.1.122.0 or later
- o HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-235.1.154.0 or later
- o HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.11.00 or later

Fixes

- o This product fixes the issue where the firmware version details failed to update and the card showed as not operational after upgrading BCM5741x adapters
- o This product fixes the issue where failed to detect a 10GBASE-LR SFP+ causing incorrect defaults and a link failure.
- o This product fixes the issue where iLO BMC shared IP on OCP NIC, link flap occurred during OS reboot.
- o This product fixes the issue where the adapter is unable to establish link after rebooting when using the "HPE 10GBASE-T SFP+ 30m RJ45 Transceiver" HPE PN 813874-B21 with vendor PN SP7053-HPE.
- o This product fixed the issue where the System cannot power on and IML log shows Critical Temperature Threshold Exceeded.
- o This product fixes the issue where the Firmware update failed on BCM57416 4 MB flash cards .

Enhancements

This product enhancement enables a self-shutdown feature to prevent overheating when certain monitoring features are disabled. It applies only to newer hardware that originally shipped with firmware version 223.1.135.7 or higher and is not enabled on earlier revisions.

Supported Devices and Features

This product supports the following network adapters:

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

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

Version: 235.1.164.14 **(Recommended)**

Filename: BCM235.1.164.14_BCM957504-P425H.fwpkg; BCM235.1.164.14_BCM957504-P425H.json

Important Note!

For Firmware installation, there is no OS and drivers dependency.
For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- o Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 235.1.122.0 or later
- o HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-235.1.164.0 or later
- o HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.11.00 or later

Fixes

- o This product fixes the issue where, in breakout mode, a cable remove or insert failed to bring the link up because the module did not exit the DPDeactivated (Data Path Deactivated) state in time.
- o This product fixes the issue where the adapter is unable to establish link after rebooting when using the "HPE 10GBASE-T SFP+ 30m RJ45 Transceiver" HPE PN 813874-B21 with vendor PN SP7053-HPE.

Supported Devices and Features

This product supports the following network adapters:

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

Broadcom Firmware Package for BCM57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter
Version: 235.1.164.14 (**Recommended**)
Filename: BCM235.1.164.14_BCM957504-N425H.fwpkg; BCM235.1.164.14_BCM957504-N425H.json

Important Note!

For Firmware installation, there is no OS and drivers dependency.
For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- o Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 235.1.122.0 or later
- o HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-235.1.164.0 or later
- o HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.11.00 or later

Fixes

- o This product fixes the issue where, in breakout mode, a cable remove or insert failed to bring the link up because the module did not exit the DPDeactivated (Data Path Deactivated) state in time.
- o This product fixes the issue where the adapter is unable to establish link after rebooting when using the "HPE 10GBASE-T SFP+ 30m RJ45 Transceiver" HPE PN 813874-B21 with vendor PN SP7053-HPE.

Supported Devices and Features

This product supports the following network adapters:

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

Broadcom NX1 Online Firmware Upgrade Utility for VMware
Version: 1.43.0 (B) (**Recommended**)
Filename: CP070621.compsig; CP070621.zip

Important Note!

This software package contains combo image v20.35.41 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	1.5.65	21.6.92
BCM 5719 1GbE 4p BASE-T OCP3 Adptr	1.64	21.6.4	1.5.65	21.6.92
BCM 5719 1GbE 4p BASE-T LOM Adptr	1.64	21.6.4	1.5.65	21.6.92
BCM 5720 1GbE 2p BASE-T LOM Adptr	1.43	21.6.4	1.5.65	21.6.92

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 unique serial number in VPD (Vital Product Data) will be altered to a dummy serial number.
- o This product fixes the issue where Failing to Obtain iLO shared NIC DHCP IP and MCTP EID Missing during Reboot.
- o This product fixes the issue where PCI Temperature sensor might be missing intermittently causing Increase in Fan Speed

Enhancements

Added ESXi 9.1 Supported Environment

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 Firmware Package for BCM5741x adapters
 Version: 235.1.164014 (**Recommended**)
 Filename: bcm235.1.164014.Optimized.fwpkg

Important Note!

For Firmware installation, there is no OS and drivers dependency.
 For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- o Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 235.1.122.0 or later
- o HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-235.1.164.0 or later
- o HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.11.00 or later

Fixes

- o This product fixes the issue where the firmware version details failed to update and the card showed as not operational after upgrading BCM5741x adapters
- o This product fixes the issue where failed to detect a 10GBASE-LR SFP+ causing incorrect defaults and a link failure.
- o This product fixes the issue where iLO BMC shared IP on OCP NIC, link flap occurred during OS reboot.
- o This product fixes the issue where the adapter is unable to establish link after rebooting when using the "HPE 10GBASE-T SFP+ 30m RJ45 Transceiver" HPE PN 813874-B21 with vendor PN SP7053-HPE.
- o This product fixed the issue where the System cannot power on and IML log shows Critical Temperature Threshold Exceeded.
- o This product fixed the issue where NICs with LR cables and transceivers showing SR mode.
- o This product fixed the issue where PCIe Negotiated Link Width is displaying as x4 instead of x8.
- o This product fixes the issue where the Firmware update failed on BCM57416 4 MB flash cards .

Supported Devices and Features

This product supports the following network adapters:

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

HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for VMware
 Version: 5.27.5 (B) (**Recommended**)
 Filename: CP070517.compsig; CP070517.zip

Important Note!

HPE recommends *HPE Broadcom NetXtreme-E Drivers for VMware*, versions 2025.11.00 or later, for use with this firmware.

This software package contains NVM Image version 235.1.164014 with the following firmware versions:

NIC	Bootcode Version	NCSI Version	MBA Version	UEFI Version	RoCE Version
HPE Ethernet 10Gb 2-port 535FLR-T Adapter	235.1.164.2	235.1.164.2	235.1.164.12	235.1.164.12	235.1.164.2
HPE Ethernet 10Gb 2-port 535T Adapter					
HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter					
HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter					
HPE Ethernet 10Gb 2-port 537SFP+ Adapter					
HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter					

Prerequisites

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

Fixes

- o This product fixes the issue where the firmware version details failed to update and the card showed as not operational after upgrading BCM5741x adapters
- o This product fixes the issue where failed to detect a 10GBASE-LR SFP+ causing incorrect defaults and a link failure.
- o This product fixes the issue where iLO BMC shared IP on OCP NIC, link flap occurred during OS reboot.
- o This product fixes the issue where the adapter is unable to establish link after rebooting when using the "HPE 10GBASE-T SFP+ 30m RJ45 Transceiver" HPE PN 813874-B21 with vendor PN SP7053-HPE.
- o This product fixed the issue where the System cannot power on and IML log shows Critical Temperature Threshold Exceeded.
- o This product fixed the issue where NICs with LR cables and transceivers showing SR mode.
- o This product fixed the issue where PCIe Negotiated Link Width is displaying as x4 instead of x8.
- o This product fixes the issue where the Firmware update failed on BCM57416 4 MB flash cards .

Enhancements

Added ESXi 9.1 Supported Environment

Supported Devices and Features

This product supports the following network adapters:

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

HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for VMware
 Version: 226.1.107000 (C) (**Recommended**)
 Filename: CP070640.compsig; CP070640.zip

Important Note!

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

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

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

Prerequisites

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

Fixes

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

Enhancements

Added ESXi 9.1 Supported Environment

Supported Devices and Features

This product supports the following network adapters:

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

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

HPE Broadcom NX1 Online Firmware Upgrade Utility VMware for HPE ProLiant Gen10 server series Only.
Version: 1.43.0 (B) (**Recommended**)
Filename: CP070620.compsig; CP070620.zip

Important Note!

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

This software package contains combo image v20.35.41 with the following firmware versions:

NIC	Boot Code Version	PXE Version	NCSI Version	UEFI Version
HPE Ethernet 1Gb 2-port 330i Adapter (22BD)	2.10	21.6.4	1.5.65	21.6.92
HPE Ethernet 1Gb 4-port 331i Adapter (22BE) HPE Ethernet 1Gb 4-port 331FLR Adapter HPE Ethernet 1Gb 4-port 331T Adapter	1.64	21.6.4	1.5.65	21.6.92
HPE Ethernet 1Gb 2-port 332i Adapter (22E8) HPE Ethernet 1Gb 2-port 332T Adapter	1.43	21.6.4	1.5.65	21.6.92

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

Prerequisites

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

Fixes

- o This product fixes the issue where unique serial number in VPD (Vital Product Data) will be altered to a dummy serial number
- o This product fixes the issue where Failing to Obtain iLO shared NIC DHCP IP and MCTP EID Missing during Reboot.
- o This product fixes the issue where PCI Temperature sensor might be missing intermittently causing Increase in Fan Speed

Enhancements

Added ESXi 9.1 Supported Environment

Supported Devices and Features

This product supports the following network adapters:

- o HPE Ethernet 1Gb 2-port 330i Adapter (22BD)
- o HPE Ethernet 1Gb 4-port 331i Adapter (22BE)
- o HPE Ethernet 1Gb 4-port 331FLR Adapter
- o HPE Ethernet 1Gb 4-port 331T Adapter
- o HPE Ethernet 1Gb 2-port 332i Adapter (22E8)
- o HPE Ethernet 1Gb 2-port 332T Adapter

HPE Intel Online Firmware Upgrade Utility VMware for HPE ProLiant Gen9 and Gen10 server series Only.
Version: 3.30.0 (**Recommended**)
Filename: CP070388.compsig; CP070388.zip

Important Note!

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

NIC	EEPROM/NVM Version	OROM Version	Single NVM Version
HPE Ethernet 1Gb 2-port 361i Adapter	8000119A	1.3911.0	N/A
HPE Ethernet 1Gb 2-port 361T Adapter	80001147	1.3911.0	N/A
HPE Ethernet 1Gb 4-port 366FLR Adapter	800011A1	1.3911.0	N/A
HPE Ethernet 1Gb 4-port 366T Adapter	800011F1	1.3911.0	N/A
HPE Ethernet 1Gb 2-port 368i Adapter	80003AC5	1.3911.0	N/A
HPE Ethernet 1Gb 2-port 368FLR-MMT Adapter	80003AC2	1.3911.0	N/A
HPE Ethernet 1Gb 4-port 369i Adapter	80003AC3	1.3911.0	N/A
HPE Ethernet 10Gb 2-port 568i Adapter	80003AC4	1.3911.0	N/A
HPE Ethernet 10Gb 2-port 568FLR-MMSFP+ Adapter	80003AC2	1.3911.0	N/A
HPE Ethernet 10Gb 2-port 568FLR-MMT Adapter	80003AC2	1.3911.0	N/A
HPE Ethernet 10Gb 2-port 563i Adapter	800035C0	1.3911.0	N/A
HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	8000F231	1.3911.0	11.1.7
HPE Ethernet 10Gb 2-port 562FLR-T Adapter	800016F1	1.3911.0	10.55.3
HPE Ethernet 10Gb 2-port 562SFP+ Adapter	8000F232	1.3911.0	11.1.7
HPE Ethernet 10Gb 2-port 562T Adapter	800016EF	1.3911.0	10.55.3

The combo image v1.3911.0 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.

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

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

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

Prerequisites

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

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

Important Note!

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

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

- o HPE QLogic FastLinQ 10/25/50 GbE Drivers for Linux, version 8.76.2.0-10 or later
- o HPE QLogic FastLinQ 10/25/50 GbE Drivers for Microsoft Windows Server x64 Editions, version 8.72.21.0 or later
- o HPE QLogic FastLinQ 10/25/50 GbE Multifunction Drivers for VMware, version 2025.09.00 or later

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

Enhancements

Added SLES16 Support Environment

Supported Devices and Features

This product supports the following network adapters:

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

HPE QLogic FastLinQ Online Firmware Upgrade Utility for VMware

Version: 4.20.0 (B) (**Recommended**)

Filename: CP070386.compsig; CP070386.zip

Important Note!

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

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

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

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

Prerequisites

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

Fixes

This product fixed the ESXi 9.1 supported issue.

Enhancements

This product enhanced the compatibility with drivers.

Supported Devices and Features

This product supports the following network adapters:

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

HPE QLogic FastLinQ Online Firmware Upgrade Utility for VMware

Version: 8.55.12 (C) (**Recommended**)

Filename: CP070642.compsig; CP070642.zip

Important Note!

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

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

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

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

Prerequisites

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

Fixes

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

Enhancements

This product contains support PLDM firmware upgrade base improvements.

Supported Devices and Features

This product supports the following network adapters:

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

HPE QLogic NX2 Online Firmware Upgrade Utility for VMware
Version: 1.37.0 (B) **(Recommended)**
Filename: CP070394.compsig; CP070394.zip

Important Note!

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

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

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

Prerequisites

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

Fixes

This product fixed the ESXi 9.1 supported issue.

Enhancements

This product enhanced the compatibility with drivers.

Supported Devices and Features

This product supports the following network adapters:

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

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

Version: 4.91 **(Recommended)**

Filename: HPE_E810_2CQDA2_O_SEC_4p91_PLDMoMCTP_800214AE.fwpgk; HPE_E810_2CQDA2_O_SEC_4p91_PLDMoMCTP_800214AE.json

Important Note!

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

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

- Intel ica Driver for Microsoft Windows Server, version 1.18.71.0 or later
- Intel ice Drivers for Linux, version 2.4.5-1 or later
- Intel icn Driver for VMware, version 2026.03.00 or later

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

Fixes

- This product fixed an issue where the Shared NIC IP was not assigned for OCP Slot B network adapters on Gen12 ProLiant servers.

Supported Devices and Features

This product supports the following network adapters:

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

Intel Firmware Package For E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter
Version: 4.91 (**Recommended**)
Filename: HPE_E810_CQDA2_4p91_PLDMoMCTP_800214AF.fwpkg; HPE_E810_CQDA2_4p91_PLDMoMCTP_800214AF.json

Important Note!

For Firmware installation, there is no OS and drivers dependency.
For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- o Intel ica Driver for Microsoft Windows Server, version 1.18.71.0 or later
- o Intel ice Drivers for Linux, version 2.4.5-1 or later
- o Intel icen Driver for VMware, version 2026.03.00 or later

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

Fixes

- o This product fixed an issue where the Shared NIC IP was not assigned for OCP Slot B network adapters on Gen12 ProLiant servers.

Supported Devices and Features

This product supports the following network adapters:

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

Intel Firmware Package For E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter
Version: 4.91 (**Recommended**)
Filename: HPE_E810_CQDA2_OCP_4p91_NCSIwPLDMoMCTP_800214AD.fwpkg; HPE_E810_CQDA2_OCP_4p91_NCSIwPLDMoMCTP_800214AD.json

Important Note!

For Firmware installation, there is no OS and drivers dependency.
For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- o Intel ica Driver for Microsoft Windows Server, version 1.18.71.0 or later
- o Intel ice Drivers for Linux, version 2.4.5-1 or later
- o Intel icen Driver for VMware, version 2026.03.00 or later

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

Fixes

- o This product fixed an issue where the Shared NIC IP was not assigned for OCP Slot B network adapters on Gen12 ProLiant servers.

Supported Devices and Features

This product supports the following network adapters:

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

Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter
Version: 4.91 (**Recommended**)
Filename: HPE_E810_XXVDA2_SD_4p91_PLDMoMCTP_800214AB.fwpkg; HPE_E810_XXVDA2_SD_4p91_PLDMoMCTP_800214AB.json

Important Note!

For Firmware installation, there is no OS and drivers dependency.
For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- o Intel ica Driver for Microsoft Windows Server, version 1.18.71.0 or later
- o Intel ice Drivers for Linux, version 2.4.5-1 or later
- o Intel icen Driver for VMware, version 2026.03.00 or later

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

Fixes

- o This product fixed an issue where the Shared NIC IP was not assigned for OCP Slot B network adapters on Gen12 ProLiant servers.

Supported Devices and Features

This product supports the following network adapters:

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

Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter
Version: 4.91 (**Recommended**)
Filename: HPE_E810_XXVDA2_SD_OCP_4p91_NCSIwPLDMoMCTP_800214B2.fwpkg; HPE_E810_XXVDA2_SD_OCP_4p91_NCSIwPLDMoMCTP_800214B2.json

Important Note!

For Firmware installation, there is no OS and drivers dependency.
For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- o Intel ica Driver for Microsoft Windows Server, version 1.18.71.0 or later
- o Intel ice Drivers for Linux, version 2.4.5-1 or later
- o Intel icen Driver for VMware, version 2026.03.00 or later

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

Fixes

- o This product fixed an issue where the Shared NIC IP was not assigned for OCP Slot B network adapters on Gen12 ProLiant servers.

Supported Devices and Features

This product supports the following network adapters:

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

Intel Firmware Package For E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter
Version: 4.91 (**Recommended**)
Filename: HPE_E810_XXVDA4_FH_4p91_PLDMoMCTP_800214B3.fwpkg; HPE_E810_XXVDA4_FH_4p91_PLDMoMCTP_800214B3.json

Important Note!

For Firmware installation, there is no OS and drivers dependency.
For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- o Intel ica Driver for Microsoft Windows Server, version 1.18.71.0 or later
- o Intel ice Drivers for Linux, version 2.4.5-1 or later
- o Intel icen Driver for VMware, version 2026.03.00 or later

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

Fixes

- o This product fixed an issue where the Shared NIC IP was not assigned for OCP Slot B network adapters on Gen12 ProLiant servers.

Supported Devices and Features

This product supports the following network adapters:

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

Intel Firmware Package For E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter
Version: 4.91 (**Recommended**)
Filename: HPE_E810_XXV4_OCP_4p91_NCSIwPLDMoMCTP_800214AC.fwpkg; HPE_E810_XXV4_OCP_4p91_NCSIwPLDMoMCTP_800214AC.json

Important Note!

For Firmware installation, there is no OS and drivers dependency.
For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- o Intel ica Driver for Microsoft Windows Server, version 1.18.71.0 or later
- o Intel ice Drivers for Linux, version 2.4.5-1 or later
- o Intel icen Driver for VMware, version 2026.03.00 or later

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

Fixes

- o This product fixed an issue where the Shared NIC IP was not assigned for OCP Slot B network adapters on Gen12 ProLiant servers.

Supported Devices and Features

This product supports the following network adapters:

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

Intel 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
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

Marvell FastLinQ Firmware Package for Arrowhead adapters

Version: 8.65.21 (C) (**Recommended**)

Filename: ql_ah_mbi_open_8.65.21_pldm.fwpkg

Important Note!

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

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

- o Marvell FastLinQ 10/25/50 GbE Drivers for Microsoft Windows Server x64 Editions, version 8.72.21.0 or later
- o HPE QLogic FastLinQ 10/25/50 GbE Drivers for Linux, version 8.76.2.0-10 or later
- o HPE QLogic FastLinQ 10/25/50 GbE Multifunction Drivers for VMware, version 2025.09.00 or later

Enhancements

Added SLES16 Support Environment

Supported Devices and Features

This product supports the following network adapters:

- o HPE Ethernet 10/25Gb 2-port SFP28 QL41232HLCU Adapter
- o HPE Ethernet 10/25Gb 2-port SFP28 QL41232HQCU OCP3 Adapter
- o HPE Ethernet 10Gb 2-port BaseT QL41132HLRJ Adapter
- o HPE Ethernet 10Gb 2-port BaseT QL41132HQRJ OCP3 Adapter
- o HPE Ethernet 10Gb 2-port SFP+ QL41132HLCU Adapter
- o HPE Ethernet 10Gb 2-port SFP+ QL41132HQCU OCP3 Adapter
- o HPE Ethernet 10Gb 4-port SFP+ QL41134HLCU Adapter

Marvell FastLinQ Online Firmware Upgrade Utility for VMware

Version: 8.55.12 (C) (**Recommended**)

Filename: CP070643.compsig; CP070643.zip

Important Note!

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

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

Prerequisites

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

Fixes

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

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

Enhancements

This product now supported NPAR enabling option.

Supported Devices and Features

This product supports the following network adapters:

- o HPE Ethernet 10/25Gb 2-port SFP28 QL41232HQCU OCP3 Adapter
- o HPE Ethernet 10/25Gb 2-port SFP28 QL41232HLCU Adapter
- o HPE Ethernet 10Gb 4-port SFP+ QL41134HLCU Adapter
- o HPE Ethernet 10Gb 2-port BaseT QL41132HLRJ Adapter
- o HPE Ethernet 10Gb 2-port BaseT QL41132HQRJ OCP3 Adapter
- o HPE Ethernet 10Gb 2-port SFP+ QL41132HQCU OCP3 Adapter
- o HPE Ethernet 10Gb 2-port SFP+ QL41132HLCU Adapter

Mellanox Firmware Package(FWPKG) for HPE NVIDIA Ethernet 100Gb 2-port NVMe-oF Offload Adapter for HPE

Version: 22.45.1020 **(Recommended)**

Filename: 22_45_1020-R8M41-63001_Ax_header.pldm.fwpgk

Prerequisites

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

Enhancements

Upgraded to version 22.45.1020

Supported Devices and Features

HPE Part Number	Mellanox Ethernet Only Adapters	PSID
P46603-B21	NVIDIA Ethernet 100Gb 2-port NVMe-oF Offload Adapter for HPE	HPE0000000062

Mellanox Firmware Package(FWPKG) for NVIDIA Ethernet 10/25Gb 2-port SFP28 NVMe-oF Crypto Adapter for HPE

Version: 26.45.1020 **(Recommended)**

Filename: 26_45_1020-S2A69-63001_Ax_header.pldm.fwpgk

Prerequisites

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

Enhancements

Upgraded to version 26.45.1020

Supported Devices and Features

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

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

Version: 26.46.3048 **(Recommended)**

Filename: 26_46_3048-MCX631102AS-ADA_Ax.pldm.fwpgk; 26_46_3048-MCX631102AS-ADA_Ax.pldm.json

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6lxfirmwarev26463048/known+issues>

Prerequisites

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

Fixes

The following issues have been fixed in version 26.46.3048:

- Configuring a small MTU led to fragmentation of packets critical for the PXE boot process. As a result, the PXE boot filters mistakenly discarded these packets, causing the PXE boot to fail.

Enhancements

New features and changes included in version 26.46.3048:

- Added support for RSS with crypto offload enabling the NIC to parallelize packet processing across CPU cores while performing encryption/decryption in hardware. Additionally, introduced a new `l4_type_ext` parameter with values: 0 (None), 1 (TCP), 2 (UDP), 3 (ICMP).
- Added an extra validation for the `payload_len` field in incoming NC-SI messages. Previously, invalid packets might have been accepted; now, such packets are silently dropped.
- This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

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: 26.46.3048 **(Recommended)**

Filename: 26_46_3048-MCX631432AS-ADA_Ax.pldm.fwpkg; 26_46_3048-MCX631432AS-ADA_Ax.pldm.json

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6lxfirmwarev26463048/known+issues>

Prerequisites

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

Fixes

The following issues have been fixed in version 26.46.3048:

- Configuring a small MTU led to fragmentation of packets critical for the PXE boot process. As a result, the PXE boot filters mistakenly discarded these packets, causing the PXE boot to fail.

Enhancements

New features and changes included in version 26.46.3048:

- Added support for RSS with crypto offload enabling the NIC to parallelize packet processing across CPU cores while performing encryption/decryption in hardware. Additionally, introduced a new `l4_type_ext` parameter with values: 0 (None), 1 (TCP), 2 (UDP), 3 (ICMP).
- Added an extra validation for the `payload_len` field in incoming NC-SI messages. Previously, invalid packets might have been accepted; now, such packets are silently dropped.
- This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

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: 16.35.8002 **(Recommended)**

Filename: 16_35_8002-MCX515A-CCA_HPE_Ax.pldm.fwpkg; 16_35_8002-MCX515A-CCA_HPE_Ax.pldm.json

Important Note!

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

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

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

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx5firmwarev16358002/its/known+issues>

Prerequisites

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

Fixes

The following issues have been fixed in version 16.35.8002:

- o Firmware failed to scan the correct CQs for the PF after the FW entered into the CQ recovery mode., resulting in CQs for the PF not being recovered.

Enhancements

New features and changes included in version 16.35.8002:

- o Enhanced performance of firmware exception path handling to better support increased numbers of configured SR-IOV instances.
- o This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

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)	16.35.8002	MT_0000000591

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

Version: 20.43.8002 (**Recommended**)

Filename: 20_43_8002-MCX653105A-HDA_HPE_Ax.pldm.fwpkg; 20_43_8002-MCX653105A-HDA_HPE_Ax.pldm.json

Important Note!

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

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

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

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6firmwarev20438002/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

The following issues have been fixed in version 20.43.8002:

- o Enabling DIM led to high IRQ/s in certain scenarios.

Enhancements

New features and changes included in version 20.43.8002:

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

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)	20.43.8002	MT_0000000451
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NVIDIA Firmware Package (FWPKG) for HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 OCP3 MCX653435A-HDAI Adapter : HPE part numbers P31323-B21 and P31323-H21

Version: 20.43.8002 (**Recommended**)

Filename: 20_43_8002-MCX653435A-HDA_HPE_Ax.pldm.fwpkg; 20_43_8002-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/connectx6firmwarev20438002/known+issues>

Prerequisites

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

Fixes

The following issues have been fixed in version 20.43.8002:

- o Enabling DIM led to high IRQ/s in certain scenarios.

Enhancements

New features and changes included in version 20.43.8002:

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

Supported Devices and Features

This software package contains the following firmware versions:

NVIDIA VPI Adapter	Firmware Version	PSID
HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 OCP3 MCX653435A-HDAI Adapter (P31323-B21 and P31323-H21)	20.43.8002	MT_0000000592

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

Version: 20.43.8002 (**Recommended**)

Filename: 20_43_8002-MCX653106A-HDA_HPE_Ax.pldm.fwpkg; 20_43_8002-MCX653106A-HDA_HPE_Ax.pldm.json

Important Note!

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

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

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

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

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

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

EDR	supported	supported	not supported	supported
FDR	not supported	not supported	not supported	not supported
QDR/SDR	supported	supported	not supported	supported

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6firmwarev20438002ts/known+issues>

Prerequisites

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

Fixes

The following issues have been fixed in version 20.43.8002:

- o Enabling DIM led to high IRQ/s in certain scenarios.

Enhancements

New features and changes included in version 20.43.8002:

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

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)	20.43.8002	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: 20.43.8002 (**Recommended**)

Filename: 20_43_8002-MCX653436A-HDA_HPE_Ax.pldm.fwpkg; 20_43_8002-MCX653436A-HDA_HPE_Ax.pldm.json

Important Note!

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

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

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

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

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

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

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6firmwarev20438002ts/known+issues>

Prerequisites

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

Fixes

The following issues have been fixed in version 20.43.8002:

- o Enabling DIM led to high IRQ/s in certain scenarios.

Enhancements

New features and changes included in version 20.43.8002:

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

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)	20.43.8002	MT_000000593

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: 20.43.8002 **(Recommended)**

Filename: 20_43_8002-MCX653105A-ECA_HPE_Ax.pldm.fwpkg; 20_43_8002-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/connectx6firmwarev20438002ts/known+issues>

Prerequisites

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

Fixes

The following issues have been fixed in version 20.43.8002:

- o Enabling DIM led to high IRQ/s in certain scenarios.

Enhancements

New features and changes included in version 20.43.8002:

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

Supported Devices and Features

This software package contains the following firmware versions:

NVIDIA VPI Adapter	Firmware Version	PSID
HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe4 x16 MCX653105A-ECAT Adapter (P23665-B21 and P23665-H21)	20.43.8002	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: 20.43.8002 (**Recommended**)

Filename: 20_43_8002-MCX653106A-ECA_HPE_Ax.pldm.fwpkg; 20_43_8002-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/connectx6firmwarev20438002ts/known+issues>

Prerequisites

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

Fixes

The following issues have been fixed in version 20.43.8002:

- o Enabling DIM led to high IRQ/s in certain scenarios.

Enhancements

New features and changes included in version 20.43.8002:

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

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)	20.43.8002	MT_0000000453

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: 28.47.1026 (**Recommended**)

Filename: 28_47_1026-MCX75310AAS-HEAT_HPE2_Ax.pldm.fwpkg; 28_47_1026-MCX75310AAS-HEAT_HPE2_Ax.pldm.json

Important Note!

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

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

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

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx7firmwarev28471026/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 28.47.1026:

- o The ZTR_RTTCC algorithm parameters AI and HAI did not support a sufficient range.
- o Coalescing regular SX events with SX RTT events under ZTR_RTTCC would keep improper event fields, which would impact congestion control behavior.
- o Issue in the ZTR_RTTCC algorithm where probe-abortion handling would behave improperly under high-stress network conditions, affecting proper congestion control and stable traffic performance.
- o An assertion failure that would occur with the E-Switch uplink in specific configurations where the e-switch was disabled and Path Migration was active or GVMIs were using SRQ loopback in SQs. The issue occurred because the firmware attempted to perform cleanup operations when the uplink configuration lacked sufficient capacity. Now, when the E-Switch is disabled and no actions are available in the uplink STE, the firmware connects to the uplink STE instead of copying it.
- o MCTP SMBus configuration issue which affected proper initialization and reliable communication between firmware components using the SMBus transport.
- o During failover or restart, the SM sending a PortInfo MAD to the HCA firmware triggered reinitialization of port buffers, momentarily halting ingress traffic and causing packet drops. The firmware now avoids reconfiguring port buffers when the new configuration matches the current one.
- o Under the ZTR_RTTCC algorithm, a flow that reached its minimum rate due to heavy congestion would not recover its rate once the congestion cleared.
- o Destroying or modifying a DPA partition from a non-owner VHCA was incorrectly allowed, such actions are now properly disallowed.
- o PTP was not supported when the port speed was configured to 1G.

Enhancements

New features and changes included in version 28.47.1026:

- o Added Scaling Factor "read" field. To obtain correct values in mlxlink, MFT version 4.33.0 or later is required.
- o Added a recovery mechanism for I²C failures. In case of an I²C communication failure, the system now automatically attempts to recover and reinitialize the I/O expander to maintain continuous operation.
- o Added support for multiple lossless buffer configurations in PFC. The firmware now automatically calculates buffer sizes and maps priorities to their respective buffers.
- o Access control was added to ensure that only the VHCA instance that created a DPA partition is permitted to modify or delete it.
- o DPA TIMER functionality has been exposed through the MTCTR access register, allowing direct access by applications.
- o A new DPA Manifest mechanism was introduced to define and manage application permissions.
- o Enabled seamless metadata propagation across layers, allowing flow steering rules and packet processing logic to share contextual information such as flow identifiers, source context, or policy tags. It improves coordination between NIC and E-Switch pipelines, enabling more flexible traffic handling and advanced offload capabilities.
- o Added support for parallel suspend operations across multiple VFs.
- o Added the ability to enable or disable ECN in the upstream by allowing the MODIFY_CONG_STATUS and QUERY_CONG_STATUS commands in mlx5_fwctl.
- o Firmware now allows the ADP-RETX timeout profile to be configured even when there are open QPs.
- o Added support for using the real-time clock to fill the request and response timestamps in hardware-generated RTT packets. To enable this feature, set REAL_TIME_CLOCK_ENABLE in mlxconfig and configure ROCE_CC_RTT_TIMESTAMP_FORMAT to 0x02 (REAL_TIME).
- o The SPDM (Security Protocol and Data Model) measurements reporting mechanism has been updated to comply with version 1.2.0 of the SPDM specification. For further information refer to <https://docs.nvidia.com/networking/display/dpunicattestation/connectx-7+measurements>
- o Added support for warm boot when UPT VMs are active, allowing the system to reboot without requiring a full shutdown of running VMs.

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 Mellanox MCX562A-ACAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE

Version: 16.35.8002 (**Recommended**)

Filename: 16_35_8002-MCX562A-ACA_Ax_Bx.pldm.fwpkg; 16_35_8002-MCX562A-ACA_Ax_Bx.pldm.json

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx5firmwarev16358002ts/known+issues>

Prerequisites

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

Fixes

The following issues have been fixed in version 16.35.8002:

- o Firmware failed to scan the correct CQs for the PF after the FW entered into the CQ recovery mode., resulting in CQs for the PF not being recovered.

Enhancements

New features and changes included in version 16.35.8002:

- o Enhanced performance of firmware exception path handling to better support increased numbers of configured SR-IOV instances.
- o This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

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: 22.46.3048 **(Recommended)**
Filename: 22_46_3048-MCX623105AS-VDA_Ax.pldm.fwpkg; 22_46_3048-MCX623105AS-VDA_Ax.pldm.json

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6dxfirmwarev22463048/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 22.46.3048:

- o Configuring a small MTU led to fragmentation of packets critical for the PXE boot process. As a result, the PXE boot filters mistakenly discarded these packets, causing the PXE boot to fail.

Enhancements

New features and changes included in version 22.46.3048:

- o Added support for RSS with crypto offload enabling the NIC to parallelize packet processing across CPU cores while performing encryption/decryption in hardware. Additionally, introduced a new `l4_type_ext` parameter with values: 0 (None), 1 (TCP), 2 (UDP), 3 (ICMP).
- o Added an extra validation for the `payload_len` field in incoming NC-SI messages. Previously, invalid packets might have been accepted; now, such packets are silently dropped.
- o This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

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: 22.46.3048 **(Recommended)**
Filename: 22_46_3048-MCX623106AS-CDA_Ax.pldm.fwpkg; 22_46_3048-MCX623106AS-CDA_Ax.pldm.json

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6dxfirmwarev22463048/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 22.46.3048:

- Configuring a small MTU led to fragmentation of packets critical for the PXE boot process. As a result, the PXE boot filters mistakenly discarded these packets, causing the PXE boot to fail.

Enhancements

New features and changes included in version 22.46.3048:

- Added support for RSS with crypto offload enabling the NIC to parallelize packet processing across CPU cores while performing encryption/decryption in hardware. Additionally, introduced a new `l4_type_ext` parameter with values: 0 (None), 1 (TCP), 2 (UDP), 3 (ICMP).
- Added an extra validation for the `payload_len` field in incoming NC-SI messages. Previously, invalid packets might have been accepted; now, such packets are silently dropped.
- This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

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: 16.35.8002 (**Recommended**)
Filename: 16_35_8002-MCX512F-ACH_Ax_Bx.pldm.fwpkg; 16_35_8002-MCX512F-ACH_Ax_Bx.pldm.json

Important Note!

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx5firmwarev16358002ts/known+issues>

Prerequisites

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

Fixes

The following issues have been fixed in version 16.35.8002:

- Firmware failed to scan the correct CQs for the PF after the FW entered into the CQ recovery mode., resulting in CQs for the PF not being recovered.

Enhancements

New features and changes included in version 16.35.8002:

- Enhanced performance of firmware exception path handling to better support increased numbers of configured SR-IOV instances.
- This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

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

Prerequisites

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

Fixes

No fixes are included in version 14.32.1908.

Enhancements

Changes included in product version 1.0.2(A):

- o Support added for VMWare ESXi 9.1.

New features and changes included in version 14.32.1908:

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

Supported Devices and Features

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

Online Firmware Upgrade Utility (ESXi 9.x) for HPE Mellanox Ethernet only adapters

Important Note!

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

Prerequisites

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

Fixes

No fixes are included in version 14.32.1908.

The following issues have been fixed in version 16.35.8002:

- o Firmware failed to scan the correct CQs for the PF after the FW entered into the CQ recovery mode., resulting in CQs for the PF not being recovered.

Enhancements

Firmware for the following devices has been updated to 14.32.1908:

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

Firmware for the following device has been updated to 16.35.8002:

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

Changes included in product version 1.0.2(A):

- o Support added for VMWare ESXi 9.1.

New features and changes included in version 14.32.1908:

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

New features and changes included in version 16.35.8002:

- o Enhanced performance of firmware exception path handling to better support increased numbers of configured SR-IOV instances.
- o This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

Supported Devices and Features

HPE Part Number	Mellanox Ethernet Only Adapters	PSID
817749-B21	HPE Ethernet 25Gb 2-port 640FLR-SFP28 Adapter	HP_2690110034
817753-B21	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	HP_2420110034
874253-B21	HPE Ethernet 100Gb 1-port 842QSFP28 Adapter	HPE0000000014

Fixes

No fixes are included in version 12.28.4704.

The following issues have been fixed in version 16.35.8002:

- o Firmware failed to scan the correct CQs for the PF after the FW entered into the CQ recovery mode., resulting in CQs for the PF not being recovered.

Enhancements

Firmware for the following devices has been updated to 12.28.4704:

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

Firmware for the following devices has been updated to 16.35.8002:

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

Changes included in product version 1.0.2(A):

- o Support added for VMWare ESXi 9.1.

New features and changes included in version 12.28.4704:

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

New features and changes included in version 16.35.8002:

- o Enhanced performance of firmware exception path handling to better support increased numbers of configured SR-IOV instances.
- o This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

Supported Devices and Features

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

Important Note!

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

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

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

Prerequisites

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

Fixes

The following issues have been fixed in version 20.43.8002:

- o Enabling DIM led to high IRQ/s in certain scenarios.

Enhancements

Changes included in product version 1.0.3(A):

- o Support added for VMWare ESXi 9.1.

New features and changes included in version 20.43.8002:

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

Supported Devices and Features

HPE Part Number	Device Name	PSID
P06154-B21	HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe3 x16 MCX653105A-HDAT Adapter	HPE0000000034
P06250-B21	HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe3 x16 MCX653105A-ECAT Adapter	HPE0000000035
P06251-B21	HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe3 x16 MCX653106A-ECAT Adapter	HPE0000000036

Online Firmware Upgrade Utility (ESXi 9.x) for Mellanox Open Ethernet cards

Version: 1.0.2 (A) (**Recommended**)

Filename: CP071009.compsig; CP071009.zip

Important Note!

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

Prerequisites

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

Fixes

No fixes are included in version 14.32.1908.

The following issues have been fixed in version 16.35.8002:

- o Firmware failed to scan the correct CQs for the PF after the FW entered into the CQ recovery mode., resulting in CQs for the PF not being recovered.

Enhancements

Firmware for the following devices has been updated to 14.32.1908:

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

Firmware for the following device has been updated to 16.35.8002:

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

Changes included in product version 1.0.2(A):

- o Support added for VMWare ESXi 9.1.

New features and changes included in version 14.32.1908:

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

New features and changes included in version 16.35.8002:

- o Enhanced performance of firmware exception path handling to better support increased numbers of configured SR-IOV instances.
- o This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

Supported Devices and Features

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

Firmware - Storage Controller

[Top](#)

Controller Firmware Flash for ESXi8.0 and 9.0 - HPE MR216i-a Gen10 Plus Tri Mode Controller
Version: 52.26.3.5487 (C) **(Recommended)**
Filename: CP070859.compsig; CP070859.zip

Enhancements

- o ESXi9.1 support.

Controller Firmware Flash for ESXi8.0 and 9.0 - HPE MR216i-p Gen10 Plus Tri Mode Controller
Version: 52.26.3.5487 (C) **(Recommended)**
Filename: CP070860.compsig; CP070860.zip

Enhancements

- o ESXi9.1 support.

Controller Firmware Flash for ESXi8.0 and 9.0 - HPE MR416i-a Gen10 Plus Tri Mode Controller
Version: 52.26.3.5487 (C) **(Recommended)**
Filename: CP070861.compsig; CP070861.zip

Enhancements

- o ESXi9.1 support.

Controller Firmware Flash for ESXi8.0 and 9.0 - HPE MR416i-p Gen10 Plus Tri Mode Controller
Version: 52.26.3.5487 (C) **(Recommended)**
Filename: CP070862.compsig; CP070862.zip

Enhancements

- o ESXi9.1 support.

Firmware Package - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P204i-c, P416ie-m and P816i-a SR Gen10 and SR308i-o,SR308i-p Gen11 controllers
Version: 8.00 **(Recommended)**
Filename: HPE_SR_Gen10_8.00_A.fwpkg

Important Note!

- o HPE Service Pack for ProLiant (SPP) provides a fully qualified recipe for specific firmware and drivers released within the same cycle, making it the primary recommended choice.
- o It is strongly recommended to use controller firmware version 8.00 for SR SAS/SATA controllers and firmware version 03.01.44.040 for SR tri-mode controllers, along with Windows 2022/2025 driver version 1016.30.0.1014, Linux driver version 2.1.38-022, and VMware ESXi driver version 80.4880.0.109/90.4880.0.109, as this combination has been fully qualified.
- o **For Windows 2016 driver, please use 1010.84.0.1012 in below link:**
<https://www.hpe.com/global/swpublishing/MTX-c523e081ab344bc4b4bc9d5686>
- o **For Windows 2019 driver, please use 1016.10.0.1004 in below link:**
<https://www.hpe.com/global/swpublishing/MTX-29e86213c3ab4e94b0b54906f7>

Fixes

- Fixed an issue that prevented drive rebuilds from restarting after unexpected power loss when media exchange was accepted in auto-replace spare configurations.
- Fixed an issue that caused auto-replace spare activation during the LOOSE_CABLE state, which could swap data drives prematurely and lead to volume failure and potential data integrity issues.
- Fixed an issue where IOPS could drop on large-capacity HDDs during Consistency Check under 4K random write workloads in RAID 1 configurations.
- Fixed an issue no-battery write cache (NBWC) can be enabled by the user in the event of a battery failure, unless the cache module itself is experiencing an error.
- Fixed an issue where ATA passthrough IDENTIFY DEVICE (0xEC) commands issued from BMC could time out due to incorrect transfer length handling.
- Fixed an issue where SSD array creation with non-deterministic drive ordering could incorrectly disable Accelerated IO on some drives, leading to performance degradation.
- Fixed an issue where the fault LED did not illuminate for a hot-removed data drive during RAID rebuild with auto replace spare enabled.
- Fixed an issue where the system could become unresponsive with lockup code as 0x1E00 when multiple out-of-band management requests were sent concurrently for the same session.
- Fixed an issue where failed or missing drives were not correctly indicated when listing drives in the HII disk utilities menu.
- Fixed an issue where PLDM Type 6 volume creation could fail on certain controllers that do not support volume caching or the IOPerfModeEnabled feature. Volume creation and update requests that explicitly disable these features (for example, setting cache policies to Off or IOPerfModeEnabled to false) are now handled correctly and will no longer be rejected.
- Fixed an issue where RDE READ could incorrectly report a split mirror backup volume as Enabled instead of StandbyOffline when the original primary volume was created via RDE CREATE. Volume usage identification was corrected to ensure accurate status reporting.
- Fixed an issue where DriveMetrics.PowerOnHours could be incorrectly reported as zero for SSDs on certain platforms. Power-on hours reporting was updated by drive type, NVMe drives reporting with DriveMetrics.NVMeSMART.PowerOnHours, SAS and SATA HDDs reporting a null value.

Enhancements

- Logical drive information menu: Enhanced to display the association between failed data drives and active spares upon drive failure.
- "Added support for the standardized Operation property in PLDM Operations arrays, providing schema-defined operation enums as below:
 - Drive Resource — Rebuild/Sanitize/Encrypt
 - Volume Resource — Initialize/Rebuild/Encrypt/ChangeRAIDLAYOUT/ChangeStripSize/Resize.

The legacy OperationName property remains available and is now marked as deprecated."

- Added support for StorageController status conditions ResetRecommended and ResetRequired. When configuration changes require a system reboot to take effect, the controller reports the status through both Status.Conditions and Redfish event messages.
- Enhanced RDE error messaging to provide clearer error descriptions for Volume DELETE and SED-enabled CREATE operations, returning detailed messages directly in the response payload instead of generic ExtendedInfo references.

Firmware Package - HPE Gen12 Boot Controller NS204i-u, HPE Gen11 Boot Controller NS204i-u, NS204i-d and HPE Gen10 Plus Boot Controller NS204i-p, NS204i-d, NS204i-t, NS204i-r

Version: 1.2.14.1026 (**Recommended**)

Filename: HPE_NS204i_1.2.14.1026_A.fwpkg; HPE_NS204i_1.2.14.1026_A.json

Important Note!

1.2.14.1018 is the minimum firmware requirement for AMD Turin DL365/385 and Intel Gen12 platforms. Downgrading NS204i firmware to version lower than 1018 will lead to MCTP failure.

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

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

- Windows: <https://www.hpe.com/global/swpublishing/MTX-84a4e0bb354f48eaad65cf9451>
- Linux: <https://www.hpe.com/global/swpublishing/MTX-b6448d485ca64fd7a5d0d5f75e>
- VMware: <https://www.hpe.com/global/swpublishing/MTX-ad49b1acb0d4455c86460c727a>

Prerequisites

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

Fixes

To mitigate the symptom - After an HPE NS204i device firmware update to version 1.2.14.1022 or later, the Drive Messages may appear for HPE Gen11 or Gen12 Server Systems with NVMe SSDs Attached to HPE NS204i Devices.

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

Version: 52.36.3-6584 (**Recommended**)

Filename: HPE_MR216i-a_Gen10P_52.36.3-6584_A.fwpkg; HPE_MR216i-a_Gen10P_52.36.3-6584_A.json

Important Note!

- This firmware version to be used on HPE MR216i-a Gen10 Plus Controller.
- The minimum iLO versions required to support 52.36.3-6584 are iLO 7 1.20, iLO 6 1.74, and iLO 5 3.18.

Prerequisites

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

Fixes

- Fix an issue that Backup Exec doesn't work with LTO drives in Linux systems
- Fix a rare issue that controller VM fails to bootup after a host reboot on Linux hypervisor
- Fix an issue that poor performance is observed during small-range writes
- Fix an issue that storcli show /cx/ex/sx poh (power on hour) command report error on NVMe drives
- Fix a rare issue that PL fault 0x4318 is observed during the IPMI power-cycle test
- Fix a rare issue that cache restore failure observed after firmware update followed by a server UMCE (unrecoverable machine check error)
- Fix an issue that firmware may assert when NVME drives take long time for Task Management
- Fix a rare issue that PL fault 0x6054 observed during patrol read in progress
- Fix a rare issue that firmware may assert during firmware update with IOs and task managements on JBOD drives.
- Fix an issue that foreign drive is shown in HotspareType@Redfish.AllowableValues
- Fix an issue that SATA LFF drives list the "DriveFormFactor" as "2_5" under the Storage tab and in Redfish
- Fix an issue that Server health shows Warning when a degraded volume is present
- Fix a rare issue that GET operation on Redfish Drive URI occasionally return 404 Not Found
- Fix an issue that rebuild does not start on an SED drive when inserted in the missing slot of a R1 drive
- Fix an issue that NVME drive undergoing sanitize is not detected after server reboot
- Fix a rare issue that Redfish Chassis properties are not properly displayed for UBM10 backplane
- Fix an issue that PCIconfiglink page events may come continuously in snapdump log
- Fix a rare issue that firmware may assert when user starts crypto erase and removed the drive
- Fix an issue that the sanitize percentage does not progress when monitoring drive's sanitize state
- Fix a rare issue that PLDM Fault 0x5: Command abort failed observed when doing backplane firmware update
- Fix a rare firmware crash that may occur during concurrent Virtual Machine clone operations and JBOD creation

- o Fix an issue that firmware may assert if drive goes through shield recovery and is subsequently removed
- o Fix a rare issue that firmware may assert while running IO's and Task Management

Enhancements

- o Add additional escape sequences for special characters when encoding BEJString to comply with the DMTF specification. iLO 7 1.20, iLO6 1.74 and iLO5 3.18 are required to support this change.
- o DMTF PLDM Redfish Device Enablement enhancements
 - Add support for Redfish Conditions (GET)
 - Each resource contains a conditions table that lists the appropriate MessageId and MessageSeverity. Redfish messages impact the Redfish resource Status object. Any outstanding message will appear in the Redfish Status[Conditions] array. The highest Status[Conditions][Severity] sets the overall Status[Health] of the resource. When the Status[Conditions] array is empty the Status[Health] shall be OK.
 - Port Conditions do not display any condition other than OK
 - In scenarios where ControllerPreviousError condition happens, the same is listed under StorageController.Status. Usually after iLO acknowledges ControllerPreviousError event, FW clears the condition from the StorageController.Status.Conditions[] list.
 - Redfish Metrics GET Support for DriveMetrics, EnvironmentMetrics and VolumeMetrics
 - DriveMetrics: BadBlockCount, ReadIOPiBytes, WriteIOPiBytes, PowerOnHours, NVMeSMART (MVMESMART attributes are supported for NVMe drive only)
 - EnvironmentMetrics for Drive Resource: TemperatureCelsius.Reading
 - VolumeMetrics: ConsistencyCheckCount, ConsistencyCheckErrorCount, RebuildErrorCount
 - Each counter can hold a value up to 65535. Once the counter reaches the maximum value the value is not reset.
 - Metrics are cleared when user performs Controller NVRAM clear or Redfish ResetToDefaults.ResetAll.
- o Add support for Redfish Parallel Resource PDR. The feature reduce iLO resource required to support controller related Metrics.
- o Add support for UBM11 backplane
- o Enhanced the UBM backplane firmware update process to eliminate the risk of firmware corruption when transferred data becomes corrupted
- o Refine the message on HII prereview configuration for the foreign import
- o Removed the Sanitize Secure Erase option from MRSA for SED drives, as SEDs support only Cryptographic Erase
- o Return error when enabling encryption with 256 characters in the "EncryptionKeyIdentifier" property through Redfish

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

Version: 52.36.3-6584 (**Recommended**)

Filename: HPE_MR216i-p_Gen10P_52.36.3-6584_A.fwpkg; HPE_MR216i-p_Gen10P_52.36.3-6584_A.json

Important Note!

- o This firmware version to be used on HPE MR216i-p Gen10 Plus Controller.
- o The minimum iLO versions required to support 52.36.3-6584 are iLO 7 1.20, iLO 6 1.74, and iLO 5 3.18.

Prerequisites

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

Fixes

- o Fix an issue that Backup Exec doesn't work with LTO drives in Linux systems
- o Fix a rare issue that controller VM fails to bootup after a host reboot on Linux hypervisor
- o Fix an issue that poor performance is observed during small-range writes
- o Fix an issue that storcli show /cx/ex/sx poh (power on hour) command report error on NVMe drives
- o Fix a rare issue that PL fault 0x4318 is observed during the IPMI power-cycle test
- o Fix a rare issue that cache restore failure observed after firmware update followed by a server UMCE (unrecoverable machine check error)
- o Fix an issue that firmware may assert when NVME drives take long time for Task Management
- o Fix a rare issue that PL fault 0x6054 observed during patrol read in progress
- o Fix a rare issue that firmware may assert during firmware update with IOs and task managements on JBOD drives.
- o Fix an issue that foreign drive is shown in HotspareType@Redfish.AllowableValues
- o Fix an issue that SATA LFF drives list the "DriveFormFactor" as "2_5" under the Storage tab and in Redfish
- o Fix an issue that Server health shows Warning when a degraded volume is present
- o Fix a rare issue that GET operation on Redfish Drive URI occasionally return 404 Not Found
- o Fix an issue that rebuild does not start on an SED drive when inserted in the missing slot of a R1 drive
- o Fix an issue that NVME drive undergoing sanitize is not detected after server reboot
- o Fix a rare issue that Redfish Chassis properties are not properly displayed for UBM10 backplane
- o Fix an issue that PCIconfiglink page events may come continuously in snapdump log
- o Fix a rare issue that firmware may assert when user starts crypto erase and removed the drive
- o Fix an issue that the sanitize percentage does not progress when monitoring drive's sanitize state
- o Fix a rare issue that PLDM Fault 0x5: Command abort failed observed when doing backplane firmware update

- o Fix a rare firmware crash that may occur during concurrent Virtual Machine clone operations and JBOD creation
- o Fix an issue that firmware may assert if drive goes through shield recovery and is subsequently removed
- o Fix a rare issue that firmware may assert while running IO's and Task Management

Enhancements

- o Add additional escape sequences for special characters when encoding BEJString to comply with the DMTF specification. iLO 7 1.20, iLO6 1.74 and iLO5 3.18 are required to support this change.
- o DMTF PLDM Redfish Device Enablement enhancements
 - Add support for Redfish Conditions (GET)
 - Each resource contains a conditions table that lists the appropriate MessageId and MessageSeverity. Redfish messages impact the Redfish resource Status object. Any outstanding message will appear in the Redfish Status[Conditions] array. The highest Status[Conditions][Severity] sets the overall Status[Health] of the resource. When the Status[Conditions] array is empty the Status[Health] shall be OK.
 - Port Conditions do not display any condition other than OK
 - In scenarios where ControllerPreviousError condition happens, the same is listed under StorageController.Status. Usually after iLO acknowledges ControllerPreviousError event, FW clears the condition from the StorageController.Status.Conditions[] list.
 - Redfish Metrics GET Support for DriveMetrics, EnvironmentMetrics and VolumeMetrics
 - DriveMetrics: BadBlockCount, ReadIOPiBytes, WriteIOPiBytes, PowerOnHours, NVMeSMART (NVMeSMART attributes are supported for NVMe drive only)
 - EnvironmentMetrics for Drive Resource: TemperatureCelsius.Reading
 - VolumeMetrics: ConsistencyCheckCount, ConsistencyCheckErrorCount, RebuildErrorCount
 - Each counter can hold a value up to 65535. Once the counter reaches the maximum value the value is not reset.
 - Metrics are cleared when user performs Controller NVRAM clear or Redfish ResetToDefaults.ResetAll.
- o Add support for Redfish Parallel Resource PDR. The feature reduce iLO resource required to support controller related Metrics.
- o Add support for UBM11 backplane
- o Enhanced the UBM backplane firmware update process to eliminate the risk of firmware corruption when transferred data becomes corrupted
- o Refine the message on HII prereview configuration for the foreign import
- o Removed the Sanitize Secure Erase option from MRSA for SED drives, as SEDs support only Cryptographic Erase
- o Return error when enabling encryption with 256 characters in the "EncryptionKeyIdentifier" property through Redfish

Firmware Package - HPE MR416i-a Gen10 Plus Tri Mode Controller
 Version: 52.36.3-6584 (**Recommended**)
 Filename: HPE_MR416i-a_Gen10P_52.36.3-6584_A.fwpkg; HPE_MR416i-a_Gen10P_52.36.3-6584_A.json

Important Note!

- o This firmware version to be used on HPE MR416i-a Gen10 Plus Controller.
- o The minimum iLO versions required to support 52.36.3-6584 are iLO 7 1.20, iLO 6 1.74, and iLO 5 3.18.

Prerequisites

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

Fixes

- o Fix an issue that Backup Exec doesn't work with LTO drives in Linux systems
- o Fix a rare issue that controller VM fails to bootup after a host reboot on Linux hypervisor
- o Fix an issue that poor performance is observed during small-range writes
- o Fix an issue that storcli show /cx/ex/sx poh (power on hour) command report error on NVMe drives
- o Fix a rare issue that PL fault 0x4318 is observed during the IPMI power-cycle test
- o Fix a rare issue that cache restore failure observed after firmware update followed by a server UMCE (unrecoverable machine check error)
- o Fix an issue that firmware may assert when NVME drives take long time for Task Management
- o Fix a rare issue that PL fault 0x6054 observed during patrol read in progress
- o Fix a rare issue that firmware may assert during firmware update with IOs and task managements on JBOD drives.
- o Fix an issue that foreign drive is shown in HotspareType@Redfish.AllowableValues
- o Fix an issue that SATA LFF drives list the "DriveFormFactor" as "2_5" under the Storage tab and in Redfish
- o Fix an issue that Server health shows Warning when a degraded volume is present
- o Fix a rare issue that GET operation on Redfish Drive URI occasionally return 404 Not Found
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- o Fix a rare issue that Redfish Chassis properties are not properly displayed for UBM10 backplane
- o Fix an issue that PCIconfiglink page events may come continuously in snapdump log
- o Fix a rare issue that firmware may assert when user starts crypto erase and removed the drive
- o Fix an issue that the sanitize percentage does not progress when monitoring drive's sanitize state

- o Fix a rare issue that PLDM Fault 0x5: Command abort failed observed when doing backplane firmware update
- o Fix a rare firmware crash that may occur during concurrent Virtual Machine clone operations and JBOD creation
- o Fix an issue that firmware may assert if drive goes through shield recovery and is subsequently removed
- o Fix a rare issue that firmware may assert while running IO's and Task Management

Enhancements

- o Add additional escape sequences for special characters when encoding BEJString to comply with the DMTF specification. iLO 7 1.20, iLO6 1.74 and iLO5 3.18 are required to support this change.
- o DMTF PLDM Redfish Device Enablement enhancements
 - Add support for Redfish Conditions (GET)
 - Each resource contains a conditions table that lists the appropriate MessageId and MessageSeverity. Redfish messages impact the Redfish resource Status object. Any outstanding message will appear in the Redfish Status[Conditions] array. The highest Status[Conditions][Severity] sets the overall Status[Health] of the resource. When the Status[Conditions] array is empty the Status[Health] shall be OK.
 - Port Conditions do not display any condition other than OK
 - In scenarios where ControllerPreviousError condition happens, the same is listed under StorageController.Status. Usually after iLO acknowledges ControllerPreviousError event, FW clears the condition from the StorageController.Status.Conditions[] list.
 - Redfish Metrics GET Support for DriveMetrics, EnvironmentMetrics and VolumeMetrics
 - DriveMetrics: BadBlockCount, ReadIOKiBytes, WriteIOKiBytes, PowerOnHours, NVMeSMART (MVMESMART attributes are supported for NVMe drive only)
 - EnvironmentMetrics for Drive Resource: TemperatureCelsius.Reading
 - VolumeMetrics: ConsistencyCheckCount, ConsistencyCheckErrorCount, RebuildErrorCount
 - Each counter can hold a value up to 65535. Once the counter reaches the maximum value the value is not reset.
 - Metrics are cleared when user performs Controller NVRAM clear or Redfish ResetToDefaults.ResetAll.
- o Add support for Redfish Parallel Resource PDR. The feature reduce iLO resource required to support controller related Metrics.
- o Add support for UBM11 backplane
- o Enhanced the UBM backplane firmware update process to eliminate the risk of firmware corruption when transferred data becomes corrupted
- o Refine the message on HII prereview configuration for the foreign import
- o Removed the Sanitize Secure Erase option from MRSA for SED drives, as SEDs support only Cryptographic Erase
- o Return error when enabling encryption with 256 characters in the "EncryptionKeyIdentifier" property through Redfish

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

Version: 52.36.3-6584 (**Recommended**)

Filename: HPE_MR416i-p_Gen10P_52.36.3-6584_A.fwpkg; HPE_MR416i-p_Gen10P_52.36.3-6584_A.json

Important Note!

- o This firmware version to be used on HPE MR416i-p Gen10 Plus Controller.
- o The minimum iLO versions required to support 52.36.3-6584 are iLO 7 1.20, iLO 6 1.74, and iLO 5 3.18.

Prerequisites

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

Fixes

- o Fix an issue that Backup Exec doesn't work with LTO drives in Linux systems
- o Fix a rare issue that controller VM fails to bootup after a host reboot on Linux hypervisor
- o Fix an issue that poor performance is observed during small-range writes
- o Fix an issue that storcli show /cx/ex/sx poh (power on hour) command report error on NVMe drives
- o Fix a rare issue that PL fault 0x4318 is observed during the IPMI power-cycle test
- o Fix a rare issue that cache restore failure observed after firmware update followed by a server UMCE (unrecoverable machine check error)
- o Fix an issue that firmware may assert when NVME drives take long time for Task Management
- o Fix a rare issue that PL fault 0x6054 observed during patrol read in progress
- o Fix a rare issue that firmware may assert during firmware update with IOs and task managements on JBOD drives.
- o Fix an issue that foreign drive is shown in HotspareType@Redfish.AllowableValues
- o Fix an issue that SATA LFF drives list the "DriveFormFactor" as "2_5" under the Storage tab and in Redfish
- o Fix an issue that Server health shows Warning when a degraded volume is present
- o Fix a rare issue that GET operation on Redfish Drive URI occasionally return 404 Not Found
- o Fix an issue that rebuild does not start on an SED drive when inserted in the missing slot of a R1 drive
- o Fix an issue that NVME drive undergoing sanitize is not detected after server reboot
- o Fix a rare issue that Redfish Chassis properties are not properly displayed for UBM10 backplane
- o Fix an issue that PCIconfiglink page events may come continuously in snapdump log
- o Fix a rare issue that firmware may assert when user starts crypto erase and removed the drive

- o Fix an issue that the sanitize percentage does not progress when monitoring drive's sanitize state
- o Fix a rare issue that PLDM Fault 0x5: Command abort failed observed when doing backplane firmware update
- o Fix a rare firmware crash that may occur during concurrent Virtual Machine clone operations and JBOD creation
- o Fix an issue that firmware may assert if drive goes through shield recovery and is subsequently removed
- o Fix a rare issue that firmware may assert while running IO's and Task Management

Enhancements

- o Add additional escape sequences for special characters when encoding BEJString to comply with the DMTF specification. iLO 7 1.20, iLO6 1.74 and iLO5 3.18 are required to support this change.
- o DMTF PLDM Redfish Device Enablement enhancements
 - Add support for Redfish Conditions (GET)
 - Each resource contains a conditions table that lists the appropriate MessageId and MessageSeverity. Redfish messages impact the Redfish resource Status object. Any outstanding message will appear in the Redfish Status[Conditions] array. The highest Status[Conditions][Severity] sets the overall Status[Health] of the resource. When the Status[Conditions] array is empty the Status[Health] shall be OK.
 - Port Conditions do not display any condition other than OK
 - In scenarios where ControllerPreviousError condition happens, the same is listed under StorageController.Status. Usually after iLO acknowledges ControllerPreviousError event, FW clears the condition from the StorageController.Status.Conditions[] list.
 - Redfish Metrics GET Support for DriveMetrics, EnvironmentMetrics and VolumeMetrics
 - DriveMetrics: BadBlockCount, ReadIOPKiBytes, WriteIOPKiBytes, PowerOnHours, NVMeSMART (MVMESMART attributes are supported for NVMe drive only)
 - EnvironmentMetrics for Drive Resource: TemperatureCelsius.Reading
 - VolumeMetrics: ConsistencyCheckCount, ConsistencyCheckErrorCount, RebuildErrorCount
 - Each counter can hold a value up to 65535. Once the counter reaches the maximum value the value is not reset.
 - Metrics are cleared when user performs Controller NVRAM clear or Redfish ResetToDefaults.ResetAll.
- o Add support for Redfish Parallel Resource PDR. The feature reduce iLO resource required to support controller related Metrics.
- o Add support for UBM11 backplane
- o Enhanced the UBM backplane firmware update process to eliminate the risk of firmware corruption when transferred data becomes corrupted
- o Refine the message on HII prereview configuration for the foreign import
- o Removed the Sanitize Secure Erase option from MRSA for SED drives, as SEDs support only Cryptographic Erase
- o Return error when enabling encryption with 256 characters in the "EncryptionKeyIdentifier" property through Redfish

Firmware Package - HPE SR932i-p Gen10 Plus /SR416i-a Gen10 Plus/SR932i-p Gen11/SR416ie-m Gen11 Controllers
 Version: 03.01.44.040 (**Recommended**)
 Filename: HPE_SR416_SR932_Gen10P_Gen11_03.01.44.040_A.fwpkg

Important Note!

- o HPE Service Pack for ProLiant (SPP) provides a fully qualified recipe for specific firmware and drivers released within the same cycle, making it the primary recommended choice.
- o It is strongly recommended to use controller firmware version 8.00 for SR SAS/SATA controllers and firmware version 03.01.44.040 for SR tri-mode controllers, along with Windows 2022/2025 driver version 1016.30.0.1014, Linux driver version 2.1.38-022, and VMware ESXi driver version 80.4880.0.109/90.4880.0.109, as this combination has been fully qualified.
- o **For Windows 2016 driver, please use 1010.84.0.1012 in below link:**
<https://www.hpe.com/global/swpublishing/MTX-c523e081ab344bc4b4bc9d5686>
- o **For Windows 2019 driver, please use 1016.10.0.1004 in below link:**
<https://www.hpe.com/global/swpublishing/MTX-29e86213c3ab4e94b0b54906f7>

Fixes

- Fixed an issue that prevented drive rebuilds from restarting after unexpected power loss when media exchange was accepted in auto-replace spare configurations.
- Fixed an issue that caused auto-replace spare activation during the LOOSE_CABLE state, which could swap data drives prematurely and lead to volume failure and potential data integrity issues.
- Fixed an issue where suspending the controller password could fail due to an incorrect status update.
- Fixed an issue where missing spares were not correctly identified for NVMe logical drives, which could prevent automatic rebuild
- Fixed an issue that could cause inconsistent data behavior immediately after driver initialization under specific I/O conditions.
- Fixed an issue where valid NVMe pass-through commands could fail due to incorrect transfer size validation.
- Fixed an issue where IOPS could drop on large-capacity HDDs during Consistency Check under 4K random write workloads in RAID 1 configurations.
- Fixed an issue no-battery write cache (NBWC) can be enabled by the user in the event of a battery failure, unless the cache module itself is experiencing an error.
- Fixed an issue where ATA passthrough IDENTIFY DEVICE (0xEC) commands issued from BMC could time out due to incorrect transfer length handling.
- Fixed an issue where SSD array creation with non-deterministic drive ordering could incorrectly disable Accelerated IO on some drives, leading to performance degradation.
- Fixed an issue where the fault LED did not illuminate for a hot-removed data drive during RAID rebuild with auto replace spare enabled.
- Fixed an issue where controller settings stored in NVRAM could revert to factory defaults after a host power cycle.
- Fixed an issue where NVMe I/O command responses could fail to be returned to the host when using high PCIe address ranges.
- Fixed an issue where failed or missing drives were not correctly indicated when listing drives in the HII disk utilities menu.
- Fixed an issue where PLDM Type 6 volume creation could fail on certain controllers that do not support volume caching or the IOPerfModeEnabled feature. Volume creation and update requests that explicitly disable these features (for example, setting cache policies to Off or IOPerfModeEnabled to false) are now handled correctly and will no longer be rejected.

- Fixed an issue where RDE READ could incorrectly report a split mirror backup volume as Enabled instead of StandbyOffline when the original primary volume was created via RDE CREATE. Volume usage identification was corrected to ensure accurate status reporting.
- Fixed an issue where DriveMetrics.PowerOnHours could be incorrectly reported as zero for SSDs on certain platforms. Power-on hours reporting was updated by drive type, NVMe drives reporting with DriveMetrics.NVMeSMART.PowerOnHours, SAS and SATA HDDs reporting a null value.

Enhancements

- o Improved SATA drive identification by using the drive-reported WWN from IDENTIFY DEVICE after the PQI driver is loaded.
- o Updated NVMe drive startup handling to allow up to 60 seconds for drives to become ready after shutdown or power events.
- o Updated the open source mbedTLS library to version 3.6.4.
- o Added support for Write Buffer 16 to enable larger NVMe firmware downloads.
- o HII disk utilities menu: Added NVMe drive Maximum Data Transfer Size (MDTS) visibility and updated default stripe size help text to consider MDTS limits, improving guidance for selecting compatible stripe settings.
- o Logical drive information menu: Enhanced to display the association between failed data drives and active spares upon drive failure.
- o "Added support for the standardized Operation property in PLDM Operations arrays, providing schema-defined operation enums as below:
 - Drive Resource — Rebuild/Sanitize/Encrypt
 - Volume Resource — Initialize/Rebuild/Encrypt/ChangeRAIDLAYOUT/ChangeStripSize/Resize.
 The legacy OperationName property remains available and is now marked as deprecated."
- o Added support for StorageController status conditions ResetRecommended and ResetRequired. When configuration changes require a system reboot to take effect, the controller reports the status through both Status.Conditions and Redfish event messages.
- o Enhanced RDE error messaging to provide clearer error descriptions for Volume DELETE and SED-enabled CREATE operations, returning detailed messages directly in the response payload instead of generic ExtendedInfo references.

HPE D3600/D3700/D3610/D3710 12Gb SAS Disk Enclosure ROM Flash Component for VMware (ESXi)
 Version: 5.04 (O) (**Recommended**)
 Filename: CP070656.compsig; CP070656.md5; CP070656.zip

Important Note!

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

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

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

Prerequisites

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

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

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

Fixes

The following fixes were incorporated in this version:

- o The Enabled-ClusterS2D command now completes successfully when executed on a SATA drive within a D3610 disk enclosure for a NonStop solution.
- o The smart carrier, which is the drive case for SAS drives, now authenticates in the D3610/D3710 drive enclosure.
- o Added new 7-segment error codes E0 and E1 to report issues with Fan modules A and B, respectively. These new codes only apply to the D3610/D3710 and only display when running firmware 5.04.
- o If the storage enclosure processor within the I/O module fails, a hard reset (power down and then power up) is executed to ensure the processor comes back online.

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

Enhancements

Added support of ESXi 9.0

Removed support of ESXi 7.0

Supported Devices and Features

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

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

HPE D3610B/D3710B 12Gb SAS Disk Enclosure ROM Flash Component for VMware (ESXi)
 Version: 6.00 (I) (**Recommended**)
 Filename: CP070658.compsig; CP070658.md5; CP070658.zip

Important Note!

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

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

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

Prerequisites

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

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

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

Fixes

The following fixes were incorporated in this version:

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

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

Enhancements

Added support of ESXi 9.0

Removed support of ESXi 7.0

Supported Devices and Features

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

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

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

Version: 2.74 (V) (**Recommended**)

Filename: CP070660.compsig; CP070660.md5; CP070660.zip

Important Note!

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

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

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

Prerequisites

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

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

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

Fixes

The following fixes were incorporated in this version:

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

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

Enhancements

Added support of ESXi 9.0

Removed support of ESXi 7.0

Supported Devices and Features

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

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

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

Version: 0130 (J) (**Recommended**)

Filename: CP070662.compsig; CP070662.md5; CP070662.zip

Important Note!

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

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

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

Prerequisites

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

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

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

Fixes

The following fixes were incorporated in this version:

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

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

Enhancements

Added support of ESXi 9.0

Removed support of ESXi 7.0

Supported Devices and Features

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

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

Online Firmware Flash for ESXi - HPE Gen11 Boot Controller NS204i-u, NS204i-d and HPE Gen10 Plus Boot Controller NS204i-p, NS204i-d

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

Filename: CP070870.compsig; CP070870.zip

Enhancements

- o ESXi9.1 support.

Online ROM Flash Component for VMware ESXi - HPE 12Gb/s SAS Expander Firmware for HPE Smart Array Controllers and HPE HBA Controllers

Version: 5.15 (D) **(Recommended)**

Filename: CP070868.compsig; CP070868.zip

Important Note!

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

Enhancements

- o ESXi 9.1 support

Online ROM Flash Component for VMware ESXi - HPE Apollo 2000 Gen10 Plus Backplane Expander FW

Version: 1.27 (D) **(Recommended)**

Filename: CP070857.compsig; CP070857.zip

Enhancements

- o ESXi 9.1 support

Online ROM Flash Component for VMware ESXi - HPE Apollo 4200 Gen10 Plus Backplane Expander Firmware

Version: 0.39 (E) **(Recommended)**

Filename: CP070858.compsig; CP070858.zip

Prerequisites

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

Enhancements

- o ESXi9.1 support.

Online ROM Flash Component for VMware ESXi - HPE Smart Array P408i-p, P408e-p, P408i-a, E208i-p, E208e-p, E208i-a, P816i-a SR Gen10 Controllers

Version: 8.00 (B) (**Recommended**)

Filename: CP070869.compsig; CP070869.zip

Important Note!

- o HPE Service Pack for ProLiant (SPP) provides a fully qualified recipe for specific firmware and drivers released within the same cycle, making it the primary recommended choice.
- o It is strongly recommended to use controller firmware version 8.00 for SR SAS/SATA controllers and firmware version 03.01.44.040 for SR tri-mode controllers, along with Windows 2022/2025 driver version 1016.30.0.1014, Linux driver version 2.1.38-022, and VMware ESXi driver version 80.4880.0.109/90.4880.0.109, as this combination has been fully qualified.
- o **For Windows 2016 driver, please use 1010.84.0.1012 in below link:**
<https://www.hpe.com/global/swpublishing/MTX-c523e081ab344bc4b4bc9d5686>
- o **For Windows 2019 driver, please use 1016.10.0.1004 in below link:**
<https://www.hpe.com/global/swpublishing/MTX-29e86213c3ab4e94b0b54906f7>
- o FWPKG support for PLDM firmware upgrades was introduced. As a transition point, both OS-dependent, offline smart components and OS-independent FWPKG for PLDM firmware package updates were made available. From firmware versions later than 5.61, OS-dependent smart and offline components can only be used on DL325 and DL385 Gen10 with AMD EPYC 7xx2 Series Processors servers due to limitations associated with the PLDM Firmware Package Upgrade. Ref customer advisory [a00119198en_us](#). For servers other than DL325 and DL385 Gen10 with AMD EPYC 7xx2 Series Processors, please use OS-independent FWPKG for PLDM firmware package updates after firmware version 5.61.

Enhancements

- o ESXi9.1 support

Online ROM Flash Component for VMware ESXi - HPE Smart Array P816i-a,P416ie-m,P408i-p, P408e-p, P408i-a,P408i-c,P204i-c,E208i-p, E208e-p, E208i-a, P208i-c SR Gen10

Version: 5.61 (F) (**Recommended**)

Filename: CP070871.compsig; CP070871.zip

Important Note!

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

Enhancements

- o ESXi9.1 support.

Firmware - Storage Fibre Channel

HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 9.0

Version: 2026.04.01 (**Recommended**)

Filename: CP070312.compsig; CP070312.zip

[Top](#)

Important Note!

Release notes:

[Broadcom Release notes](#)

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	16Gb	14.4.731.5	14.4.731.5	14.4.716.0	14.4.718.0
HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	16Gb	14.4.731.5	14.4.731.5	14.4.716.0	14.4.718.0
HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.4.731.5	14.4.731.5	14.4.716.0	14.4.718.0
HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.4.731.5	14.4.731.5	14.4.716.0	14.4.718.0
HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.4.731.10	14.4.731.10	14.4.716.0	14.4.718.0
HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.4.731.10	14.4.731.10	14.4.716.0	14.4.718.0
HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.4.731.10	14.4.731.10	14.4.716.0	14.4.718.0
HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.4.731.10	14.4.731.10	14.4.716.0	14.4.718.0

Added Following Enhancements:

[Redfish]:HPE specific SFP Data - Predicted days for non working stage

[Redfish]: API to read SFP Data

Fixed the following:

SPDM - Get Certificate response returns out of bound values

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:

SPDM - Get Certificate response returns out of bound values

Enhancements

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	16Gb	14.4.731.5	14.4.731.5	14.4.716.0	14.4.718.0
HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	16Gb	14.4.731.5	14.4.731.5	14.4.716.0	14.4.718.0
HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.4.731.5	14.4.731.5	14.4.716.0	14.4.718.0
HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.4.731.5	14.4.731.5	14.4.716.0	14.4.718.0
HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.4.731.10	14.4.731.10	14.4.716.0	14.4.718.0
HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.4.731.10	14.4.731.10	14.4.716.0	14.4.718.0
HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.4.731.10	14.4.731.10	14.4.716.0	14.4.718.0
HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.4.731.10	14.4.731.10	14.4.716.0	14.4.718.0

Added Following Enhancements:

[Redfish]:HPE specific SFP Data - Predicted days for non working stage

[Redfish]: API to read SFP Data

Supported Devices and Features

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

16Gb FC Adapter:

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

32Gb FC Adapter:

- HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1610E 32Gb Dual port Fibre Channel Host Bus Adapter
- HPE SN1610E 32Gb Single port Fibre Channel Host Bus Adapter

64Gb FC Adapter:

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

HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 9.0 and vSphere 9.1

Version: 2026.04.01 (**Recommended**)

Filename: CP070513.compsig; CP070513.zip

Important Note!

Release Notes:

[HPE QLogic Adapters Release Notes](#)

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter	16Gb	02.05.01	9.15.05	7.28	3.68
HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter	16Gb	02.05.01	9.15.05	7.28	3.68
HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.05.01	9.15.05	7.28	3.68
HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.05.01	9.15.05	7.28	3.68
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.11.11	09.15.15	7.39	NA
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.11.11	09.15.15	7.39	NA
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.11.11	09.15.15	7.39	NA
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.11.11	09.15.15	7.39	NA

Fixed the following :

SFP Parameters value decimal part is truncated

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 :

SFP Parameters value decimal part is truncated

Enhancements

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter	16Gb	02.05.01	9.15.05	7.28	3.68
HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter	16Gb	02.05.01	9.15.05	7.28	3.68
HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.05.01	9.15.05	7.28	3.68
HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.05.01	9.15.05	7.28	3.68
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.11.11	09.15.15	7.39	NA
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.11.11	09.15.15	7.39	NA
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.11.11	09.15.15	7.39	NA
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.11.11	09.15.15	7.39	NA

Supported Devices and Features

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

16Gb Fibre Channel Host Bus Adapter:

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

32Gb Fibre Channel Host Bus Adapter:

- o HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- o HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- o HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- o HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter

64Gb Fibre Channel Host Bus Adapter:

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

Software - Management

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

Version: 2026.03.00 (**Recommended**)

Filename: cp070019.compsig; cp070019.zip

[Top](#)

Enhancements

Added support for vSphere 9.1 OS

Smart Storage Administrator (SSA) CLI Smart Component for ESXi 9.0 for Gen10/Gen10 Plus/Gen11 Controllers

Version: 2026.03.01 (**Recommended**)

Filename: cp069349.compsig; cp069349.zip

Important Note!

- o Actual ESXi9.0 ssacli version is 6.60.11.0
- o **Due to VMware upgrade constraints, the SSA CLI package version (6.60.11) differs from the internal version (6.60.9). This is expected behavior.**

Enhancements

- Modified the SSACLI component version format to meet the new requirement from VMware ESXi for 9.1
- Added spare type decoding in Array Diagnostic Utility (ADU) reports to indicate whether a logical drive uses dedicated or auto-replace spares
- Modified the default strip size for NVMe drives based on the Maximum Data Transfer Size (MDTS), and tools will set the default strip size to the minimum supported MDTS value when creating or migrating a logical drive

Software - Storage Controller

HPE MegaRAID Storage Administrator StorCLI for VMware9.0 (For Gen10P and Gen11 Controllers)

Version: 2026.03.01 (**Recommended**)

Filename: cp068890.compsig; cp068890.zip

[Top](#)

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

Software - Storage Fibre Channel

[Top](#)

HPE QLogic Fibre Channel driver component for VMware vSphere 9.0
Version: 2026.04.01 **(Recommended)**
Filename: cp070511.compsig; cp070511.zip

Important Note!

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

This component is intended to be used by HPE applications. It is a zip that contains the same driver deliverable available from the vmware.com and the HPE vibstdepot.hpe.com webpages, plus an HPE specific CPXXXX.xml file.
This driver is only supported on VMware ESXi 9.0

Prerequisites

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

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

Enhancements

Driver version 5.5.86.0
This driver is only supported on VMware ESXi 9.0

Supported Devices and Features

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

16Gb Fibre Channel Host Bus Adapter:

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

32Gb Fibre Channel Host Bus Adapter:

- o HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- o HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- o HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- o HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter

64Gb Fibre Channel Host Bus Adapter:

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

Software - System Management

[Top](#)

HPE Agentless Management Bundle for ESXi for HPE Gen10 and Gen10 Plus Servers
Version: 802.11.13.0 **(Recommended)**
Filename: amsdComponent_802.11.13.0.1-1.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 enhancements in this release.

HPE Agentless Management Bundle Smart Component on ESXi for Gen10 and Gen10 Plus Servers
Version: 2026.03.01 **(Recommended)**
Filename: cp070839.compsig; cp070839.zip

Fixes

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

Enhancements

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

BIOS - System ROM

[Top](#)

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

Version: 3.64_02-05-2026 (**Recommended**)

Filename: U39_3.64_02_05_2026.fwpkg

Important Note!

Important Notes:

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

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

Deliverable Name:

HPE Apollo 4200 Gen10/ProLiant XL420 Gen10 System ROM - U39

Release Version:

3.64_02-05-2026

Last Recommended or Critical Revision:

3.64_02-05-2026

Previous Revision:

3.62_01-09-2026

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where BIOS would not retry power calibration when requested by iLO in cases where power samples were incorrect, preventing dynamic power capping from being enabled or accessed.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

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

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where BIOS would not retry power calibration when requested by iLO in cases where power samples were incorrect, preventing dynamic power capping from being enabled or accessed.

Known Issues:

None

ROM Flash Firmware Package - HPE Apollo 4510 Gen10/HPE ProLiant XL450 Gen10 (U40) Servers

Version: 3.64_02-05-2026 (**Recommended**)

Filename: U40_3.64_02_05_2026.fwpkg

Important Note!

Important Notes:

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

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

Deliverable Name:

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

Release Version:

3.64_02-05-2026

Last Recommended or Critical Revision:

3.64_02-05-2026

Previous Revision:

3.62_01-09-2026

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where BIOS would not retry power calibration when requested by iLO in cases where power samples were incorrect, preventing dynamic power capping from being enabled or accessed.

Known Issues:

None

Fixes**Important Notes:**

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

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

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where BIOS would not retry power calibration when requested by iLO in cases where power samples were incorrect, preventing dynamic power capping from being enabled or accessed.

Known Issues:

None

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

Version: 3.64_02-05-2026 (**Recommended**)

Filename: U31_3.64_02_05_2026.fwpkg

Important Note!**Important Notes:**

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

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

Deliverable Name:

HPE ProLiant DL160 Gen10/DL180 Gen10 System ROM - U31

Release Version:

3.64_02-05-2026

Last Recommended or Critical Revision:

3.64_02-05-2026

Previous Revision:

3.62_01-09-2026

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where BIOS would not retry power calibration when requested by iLO in cases where power samples were incorrect, preventing dynamic power capping from being enabled or accessed.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

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

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where BIOS would not retry power calibration when requested by iLO in cases where power samples were incorrect, preventing dynamic power capping from being enabled or accessed.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant DL20 Gen10 (U43) Servers
Version: 3.72_01-09-2026 (**Optional**)
Filename: U43_3.72_01_09_2026.fwpkg

Important Note!

Important Notes:

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 05.01.05.103.

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

Deliverable Name:

HPE DL20 Gen10 System ROM - U43

Release Version:

3.72_01-09-2026

Last Recommended or Critical Revision:

3.72_01-09-2026

Previous Revision:

3.70_08-08-2025

Firmware Dependencies:

None

Enhancements/New Features:

Updated the warning message wording of "Intelligent Provisioning" for OEM.

Problems Fixed:

Addressed an issue where the system iLO Remote Console could become unresponsive when a warning message appeared in RBSU.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 05.01.05.103.

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 iLO Remote Console could become unresponsive when a warning message appeared in RBSU.

Known Issues:

None

Enhancements

Updated the warning message wording of "Intelligent Provisioning" for OEM.

ROM Flash Firmware Package - HPE ProLiant DL20 Gen10 Plus Servers
Version: 2.60_02-05-2026 (**Recommended**)
Filename: U60_2.60_02_05_2026.fwpkg

Important Note!

Important Notes:

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.00.03.708 (2.60_01_28_2026). This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2026.1 guidance.

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

Deliverable Name:

HPE DL20 Gen10 Plus System ROM - U60

Release Version:

2.60_02-05-2026

Last Recommended or Critical Revision:

2.60_02-05-2026

Previous Revision:

2.52_01-09-2026

Firmware Dependencies:

None

Enhancements/New Features:

This version is in compliance with IPU 2026.1 guidance.

Enabled PXE boot capability for certain USB NICs, which will appear in the One Time Boot Menu.

Problems Fixed:

Addressed an issue where systems configured with Secure Boot may experience a Red Screen of Death upon removal of Microsoft Windows Production PCA certificates from the Secure Boot database.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.00.03.708 (2.60_01_28_2026). This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2026.1 guidance.

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 systems configured with Secure Boot may experience a Red Screen of Death upon removal of Microsoft Windows Production PCA certificates from the Secure Boot database.

Known Issues:

None

Enhancements

This version is in compliance with IPU 2026.1 guidance.

Enabled PXE boot capability for certain USB NICs, which will appear in the One Time Boot Menu.

ROM Flash Firmware Package - HPE ProLiant DL325 Gen10 (A41) Servers
Version: 3.70_01-09-2026 (**Recommended**)
Filename: A41_3.70_01_09_2026.fwpkg

Important Note!

Important Notes:

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

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

Deliverable Name:

HPE ProLiant DL325 Gen10 System ROM - A41

Release Version:

3.70_01-09-2026

Last Recommended or Critical Revision:

3.70_01-09-2026

Previous Revision:

3.60_09-05-2025

Firmware Dependencies:

None

Enhancements/New Features:

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

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

Problems Fixed:

Addressed an issue where the SEV-SNP feature failed on AMD 2nd Generation "Rome" EPYC processors.

Addressed an issue where the iLO Remote Console could become unresponsive when a warning message appeared in the RBSU menu.

Known Issues:

None

Fixes

Important Notes:

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

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

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the SEV-SNP feature failed on AMD 2nd Generation "Rome" EPYC processors.

Addressed an issue where the iLO Remote Console could become unresponsive when a warning message appeared in the RBSU menu.

Known Issues:

None

Enhancements

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

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

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

Version: 3.64_02-05-2026 (**Recommended**)

Filename: U32_3.64_02_05_2026.fwpkg

Important Note!

Important Notes:

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

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

Deliverable Name:

HPE ProLiant DL360 Gen10 System ROM - U32

Release Version:

3.64_02-05-2026

Last Recommended or Critical Revision:

3.64_02-05-2026

Previous Revision:

3.62_01-09-2026

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where BIOS would not retry power calibration when requested by iLO in cases where power samples were incorrect, preventing dynamic power capping from being enabled or accessed.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

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

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where BIOS would not retry power calibration when requested by iLO in cases where power samples were incorrect, preventing dynamic power capping from being enabled or accessed.

Known Issues:

None

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

Version: 3.64_02-05-2026 (**Recommended**)

Filename: U30_3.64_02_05_2026.fwpkg

Important Note!

Important Notes:

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

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

Deliverable Name:

HPE System ROM - U30

Release Version:

3.64_02-05-2026

Last Recommended or Critical Revision:

3.64_02-05-2026

Previous Revision:

3.62_01-09-2026

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where BIOS would not retry power calibration when requested by iLO in cases where power samples were incorrect, preventing dynamic power capping from being enabled or accessed.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

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

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where BIOS would not retry power calibration when requested by iLO in cases where power samples were incorrect, preventing dynamic power capping from being enabled or accessed.

Known Issues:

None

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

Important Note!

Important Notes:

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

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

Deliverable Name:

HPE ProLiant DL385 Gen10 System ROM - A40

Release Version:

3.70_01-09-2026

Last Recommended or Critical Revision:

3.70_01-09-2026

Previous Revision:

3.60_09-05-2025

Firmware Dependencies:

None

Enhancements/New Features:

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

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

Problems Fixed:

Addressed an issue where the SEV-SNP feature failed on AMD 2nd Generation "Rome" EPYC processors.

Addressed an issue where the iLO Remote Console could become unresponsive when a warning message appeared in the RBSU menu.

Known Issues:

None

Fixes

Important Notes:

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

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

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the SEV-SNP feature failed on AMD 2nd Generation "Rome" EPYC processors.

Addressed an issue where the iLO Remote Console could become unresponsive when a warning message appeared in the RBSU menu.

Known Issues:

None

Enhancements

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

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

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

Version: 3.64_02-05-2026 (**Recommended**)

Filename: U34_3.64_02_05_2026.fwpkg

Important Note!

Important Notes:

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

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

Deliverable Name:

HPE ProLiant DL560 Gen10/DL580 Gen10 System ROM - U34

Release Version:

3.64_02-05-2026

Last Recommended or Critical Revision:

3.64_02-05-2026

Previous Revision:

3.62_01-09-2026

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where BIOS would not retry power calibration when requested by iLO in cases where power samples were incorrect, preventing dynamic power capping from being enabled or accessed.

Known Issues:

None

Fixes**Important Notes:**

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

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

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where BIOS would not retry power calibration when requested by iLO in cases where power samples were incorrect, preventing dynamic power capping from being enabled or accessed.

Known Issues:

None

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

Version: 2.60_02-05-2026 (**Recommended**)

Filename: U64_2.60_02_05_2026.fwpkg

Important Note!**Important Notes:**

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.00.03.708 (2.60_01_28_2026). This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2026.1 guidance.

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

Deliverable Name:

HPE ProLiant MicroServer Gen10 Plus v2 System ROM - U64

Release Version:

2.60_02-05-2026

Last Recommended or Critical Revision:

2.60_02-05-2026

Previous Revision:

2.52_01-09-2026

Firmware Dependencies:

None

Enhancements/New Features:

This version is in compliance with IPU 2026.1 guidance.

Enabled PXE boot capability for certain USB NICs, which will appear in the One Time Boot Menu.

Problems Fixed:

Addressed an issue where systems configured with Secure Boot may experience a Red Screen of Death upon removal of Microsoft Windows Production PCA certificates from the Secure Boot database.

Known Issues:

None

Fixes**Important Notes:**

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.00.03.708 (2.60_01_28_2026). This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2026.1 guidance.

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 systems configured with Secure Boot may experience a Red Screen of Death upon removal of Microsoft Windows Production PCA certificates from the Secure Boot database.

Known Issues:

None

Enhancements

This version is in compliance with IPU 2026.1 guidance.

Enabled PXE boot capability for certain USB NICs, which will appear in the One Time Boot Menu.

ROM Flash Firmware Package - HPE ProLiant ML110 Gen10 (U33) Servers

Version: 3.64_02-05-2026 (**Recommended**)

Filename: U33_3.64_02_05_2026.fwpkg

Important Note!

Important Notes:

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

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

Deliverable Name:

HPE ProLiant ML110 Gen10 System ROM - U33

Release Version:

3.64_02-05-2026

Last Recommended or Critical Revision:

3.64_02-05-2026

Previous Revision:

3.62_01-09-2026

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where BIOS would not retry power calibration when requested by iLO in cases where power samples were incorrect, preventing dynamic power capping from being enabled or accessed.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

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

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where BIOS would not retry power calibration when requested by iLO in cases where power samples were incorrect, preventing dynamic power capping from being enabled or accessed.

Known Issues:

None

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

Version: 3.72_01-09-2026 (**Recommended**)

Filename: U44_3.72_01_09_2026.fwpkg

Important Note!

Important Notes:

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 05.01.05.103.

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

Deliverable Name:

HPE ProLiant ML30 Gen10 System ROM - U44

Release Version:

3.72_01-09-2026

Last Recommended or Critical Revision:

3.72_01-09-2026

Previous Revision:

3.70_08-08-2025

Firmware Dependencies:

None

Enhancements/New Features:

Updated the warning message wording of "Intelligent Provisioning" for OEM.

Problems Fixed:

Addressed an issue where the system iLO Remote Console could become unresponsive when a warning message appeared in RBSU.

Known Issues:

None

Fixes**Important Notes:**

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 05.01.05.103.

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 iLO Remote Console could become unresponsive when a warning message appeared in RBSU.

Known Issues:

None

Enhancements

Updated the warning message wording of "Intelligent Provisioning" for OEM.

ROM Flash Firmware Package - HPE ProLiant ML30 Gen10 Plus Servers

Version: 2.60_02-05-2026 (**Recommended**)

Filename: U61_2.60_02_05_2026.fwpkg

Important Note!**Important Notes:**

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.00.03.708 (2.60_01_28_2026). This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2026.1 guidance.

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

Deliverable Name:

HPE ProLiant ML30 Gen10 Plus System ROM - U61

Release Version:

2.60_02-05-2026

Last Recommended or Critical Revision:

2.60_02-05-2026

Previous Revision:

2.52_01-09-2026

Firmware Dependencies:

None

Enhancements/New Features:

This version is in compliance with IPU 2026.1 guidance.

Enabled PXE boot capability for certain USB NICs, which will appear in the One Time Boot Menu.

Problems Fixed:

Addressed an issue where systems configured with Secure Boot may experience a Red Screen of Death upon removal of Microsoft Windows Production PCA certificates from the Secure Boot database.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.00.03.708 (2.60_01_28_2026). This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2026.1 guidance.

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 systems configured with Secure Boot may experience a Red Screen of Death upon removal of Microsoft Windows Production PCA certificates from the Secure Boot database.

Known Issues:

None

Enhancements

This version is in compliance with IPU 2026.1 guidance.

Enabled PXE boot capability for certain USB NICs, which will appear in the One Time Boot Menu.

ROM Flash Firmware Package - HPE ProLiant ML350 Gen10 (U41) Servers
Version: 3.64_02-05-2026 (**Recommended**)
Filename: U41_3.64_02_05_2026.fwpkg

Important Note!

Important Notes:

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

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

Deliverable Name:

HPE ProLiant ML350 Gen10 System ROM - U41

Release Version:

3.64_02-05-2026

Last Recommended or Critical Revision:

3.64_02-05-2026

Previous Revision:

3.62_01-09-2026

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where BIOS would not retry power calibration when requested by iLO in cases where power samples were incorrect, preventing dynamic power capping from being enabled or accessed.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

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

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where BIOS would not retry power calibration when requested by iLO in cases where power samples were incorrect, preventing dynamic power capping from being enabled or accessed.

Known Issues:

None

ROM Flash Universal Firmware Package - HPE ProLiant DL325/DL325 v2/DL345 Gen10 Plus (A43) Servers
Version: 4.00_01-09-2026 (**Recommended**)
Filename: A43_4.00_01_09_2026.fwpkg

Important Note!

Important Notes:

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

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

Deliverable Name:

HPE ProLiant DL325/DL325 v2/DL345 Gen10 Plus System ROM - A43

Release Version:

4.00_01-09-2026

Last Recommended or Critical Revision:

4.00_01-09-2026

Previous Revision:

3.92_11-27-2025

Firmware Dependencies:

None

Enhancements/New Features:

This revision of the System ROM includes AMD reference code MilanPI 1.0.0.J for AMD 3rd Generation EPYC processors.

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

Problems Fixed:

None

Known Issues:

None

Fixes

Resolved various issues to improve system stability and performance.

Enhancements

Important Notes:

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

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

Firmware Dependencies:

None

Enhancements/New Features:

This revision of the System ROM includes AMD reference code MilanPI 1.0.0.J for AMD 3rd Generation EPYC processors.

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

Known Issues:

None

ROM Flash Universal Firmware Package - HPE ProLiant DL360/DL380 Gen10 Plus (U46) Servers
Version: 2.60_02-05-2026 (**Recommended**)
Filename: U46_2.60_02_05_2026.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains updates aligned with the Intel Whitley IPU2026.1 RC update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.04.04.925 (2.60_12_05_2025).

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

Deliverable Name:

HPE System ROM - U46

Release Version:

2.60_02-05-2026

Last Recommended or Critical Revision:

2.60_02-05-2026

Previous Revision:

2.54_01-09-2026

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where systems configured with Secure Boot may experience a Red Screen of Death upon removal of Microsoft Windows Production PCA certificates from the Secure Boot database.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Whitley IPU2026.1 RC update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.04.04.925 (2.60_12_05_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 systems configured with Secure Boot may experience a Red Screen of Death upon removal of Microsoft Windows Production PCA certificates from the Secure Boot database.

Known Issues:

None

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

Version: 4.00_01-09-2026 (**Recommended**)

Filename: A42_4.00_01_09_2026.fwpkg

Important Note!

Important Notes:

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

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

Deliverable Name:

HPE DL365 Gen10 Plus/DL385 Gen10 Plus/DL385 v2 Gen10 Plus System ROM - A42

Release Version:

4.00_01-09-2026

Last Recommended or Critical Revision:

4.00_01-09-2026

Previous Revision:

3.92_11-27-2025

Firmware Dependencies:

None

Enhancements/New Features:

This revision of the System ROM includes AMD reference code MilanPI 1.0.0.J for AMD 3rd Generation EPYC processors.

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

Problems Fixed:

None

Known Issues:

None

Enhancements

Important Notes:

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

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

Firmware Dependencies:

None

Enhancements/New Features:

This revision of the System ROM includes AMD reference code MilanPI 1.0.0.J for AMD 3rd Generation EPYC processors.

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

Known Issues:

None

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Update April 21 2026

