

# 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:

[VMware OS Support Tool for HPE Synergy](#)

Information on HPE Synergy Software Releases is available at:

[HPE Synergy Software Releases - Overview](#)

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## Gen10 Patch Bundle 2 Supplement version 2022.09.01.02 Release Notes for VMware ESXi 8.0

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### Driver - Storage Controller

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

Version: 2023.03.01 **(Recommended)**

Filename: cp054660.compsig; cp054660.zip

### Important Note!

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

### Enhancements

for 2023 Web Feb usage.

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### Firmware - Network

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

Version: 26.34.1002 **(Recommended)**

Filename: 26\_34\_1002-MCX631102AS-ADA\_Ax.pldm.fwpkg

### Important Note!

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A list of known issues with this release is available

at: <https://docs.nvidia.com/networking/display/ConnectX6LxFirmwarev26331048/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 26.34.1002:**

- An issue where set\_flow\_table\_entry failed when aso\_flow\_meter action was used.
- A race condition occurred between the duplicate read and QP commands (2RST, 2ERR and Destroy) in the signature that caused the command to hang.
- An issue where vPort counters had wrong values.
- An issue where firmware update failed or timed out when multiple adapters of the same type were present on a system. This was fixed by adding "Command Unsupported" response code in cases when running the MCTP control command "Get Vendor Defined Messages Supported", and there were no supported VDMs.

### Enhancements

## New Features and Changes in Version 26.34.1002:

- Added LLDPEnable, LLDPTransmit and LLDPReceive properties to the RDE Port schema implementation.
- Added support for PPCC register with bulk operations, MAD for algorithm configuration and tunable parameters.
- Added support for programmable counters for PCC via PPCC register and MAD.
- Added Programmable Congestion Control (PCC) support. Note: User programmability is currently not supported.
- Added 50 Usec delay during PML1 exit to avoid any PCIe replay timer timeout.
- Enabled Multi-Host RX Rate-limiter configuration via the QEEC mlxreg and the max\_shaper\_rate field.

## Supported Devices and Features

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

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Mellanox Firmware Package (FWPKG) - Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE  
Version: 26.34.1002 (**Recommended**)  
Filename: 26\_34\_1002-MCX631432AS-ADA\_Ax.pldm.fwpkg

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/ConnectX6LxFirmwarev26331048/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 26.34.1002:

- An issue where set\_flow\_table\_entry failed when aso\_flow\_meter action was used.
- A race condition occurred between the duplicate read and QP commands (2RST, 2ERR and Destroy) in the signature that caused the command to hang.
- An issue where vPort counters had wrong values.
- An issue where firmware update failed or timed out when multiple adapters of the same type were present on a system. This was fixed by adding "Command Unsupported" response code in cases when running the MCTP control command "Get Vendor Defined Messages Supported", and there were no supported VDMs.

## Enhancements

### New Features and Changes in Version 26.34.1002:

- Added LLDPEnable, LLDPTransmit and LLDPReceive properties to the RDE Port schema implementation.
- Added support for PPCC register with bulk operations, MAD for algorithm configuration and tunable parameters.
- Added support for programmable counters for PCC via PPCC register and MAD.
- Added Programmable Congestion Control (PCC) support. Note: User programmability is currently not supported.
- Added 50 Usec delay during PML1 exit to avoid any PCIe replay timer timeout.
- Enabled Multi-Host RX Rate-limiter configuration via the QEEC mlxreg and the max\_shaper\_rate field.

## Supported Devices and Features

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

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Mellanox Firmware Package (FWPKG) for HPE Ethernet 100Gb 1-port QSFP28 PCIe3 x16 MCX515A-CCAT Adapter : HPE part numbers P31246-B21 and P31246-H21  
Version: 16.34.1002 (**Recommended**)  
Filename: 16\_34\_1002-MCX515A-CCA\_HPE\_Ax.pldm.fwpkg

## **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/ConnectX5Firmwarev16341002/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 16.34.1002:**

- o "set\_flow\_table\_entry" failed when aso\_flow\_meter action was used.
- o A race condition occurred between the duplicate read and QP commands (2RST, 2ERR and Destroy) in the signature that caused the command to hang.
- o When all traffic applications sharing the same combination of <function, priority, side> were rate limited (for example by congestion control), this limit was enforced on other applications with different combinations of <function, priority, side> under the same VL. For example, requestor flows (RDMA-write) were limited to rate X, however, this rate was also enforced on a QP sending RDMAread responses. This firmware version prevents rate limit enforcement on traffic applications which should not be limited.
- o Firmware update failed or timed out when multiple adapters of the same type were present on a system. This was fixed by adding "Command Unsupported" response code in cases when running the MCTP control command "Get Vendor Defined Messages Supported", and there were no supported VDMs.

## **Enhancements**

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

**New features and changes included in version 16.34.1002:**

- o Added LLDPEnable, LLDPTransmit and LLDPReceive properties to the RDE Port schema implementation.

## **Supported Devices and Features**

This software package contains the following firmware versions:

<b>Mellanox Ethernet Only Adapters</b>	<b>Firmware Version</b>	<b>PSID</b>
HPE Ethernet 100Gb 1-port QSFP28 PCIe3 x16 MCX515A-CCAT Adapter(P31246-B21 and P31246-H21)	16.34.1002	MT_0000000591

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

Version: 20.34.1002 (**Recommended**)

Filename: 20\_34\_1002-MCX653105A-HDA\_HPE\_Ax.pldm.fwpgk

## **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.

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A list of known issues with this release is available

at: <https://docs.nvidia.com/networking/display/ConnectX6Firmwarev20341002/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 20.34.1002:**

- "set\_flow\_table\_entry" failed when aso\_flow\_meter action was used.
- A race condition occurred between the duplicate read and QP commands (2RST, 2ERR and Destroy) in the signature that caused the command to get into an unresponsive state.
- Firmware update failed or timed out when multiple adapters of the same type were present on a system. This was fixed by adding "Command Unsupported" response code in cases when running the MCTP control command "Get Vendor Defined Messages Supported", and there were no supported VDMs.

### **Enhancements**

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

**New features and changes included in version 20.34.1002:**

- Added LLDPEnable, LLDPTransmit and LLDPReceive properties to the RDE Port schema implementation.
- Added Queue Counters Allocation capability which allows privileged users to allocate queue counters. With this new feature, the get\_max\_qp\_cnt\_cur\_cap() returns a valid value when the UID is with UCTX\_CAP\_INTERNAL\_DEVICE\_RESOURCES, otherwise it returns 0.
- Added support for InfiniBand MAD packets capturing in RX RDMA Steering table.
- Added 50 Usec delay during PML1 exit to avoid any PCIe replay timer timeout.

### **Supported Devices and Features**

This software package contains the following firmware versions:

<b>Mellanox InfiniBand Adapter</b>	<b>Firmware Version</b>	<b>PSID</b>
HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 MCX653105A-HDAT Adapter (P23664-B21 and P23664-H21)	20.34.1002	MT_0000000451

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

Version: 20.34.1002 (**Recommended**)

Filename: 20\_34\_1002-MCX653435A-HDA\_HPE\_Ax.pldm.fwpkg

### **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.
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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/ConnectX6Firmwarev20341002/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 20.34.1002:**

- "set\_flow\_table\_entry" failed when aso\_flow\_meter action was used.
- A race condition occurred between the duplicate read and QP commands (2RST, 2ERR and Destroy) in the signature that caused the command to get into an unresponsive state.
- Firmware update failed or timed out when multiple adapters of the same type were present on a system. This was fixed by adding "Command Unsupported" response code in cases when running the MCTP control command "Get Vendor Defined Messages Supported", and there were no supported VDMs.

### **Enhancements**

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

**New features and changes included in version 20.34.1002:**

- Added LLDPEnable, LLDPTransmit and LLDPReceive properties to the RDE Port schema implementation.
- Added Queue Counters Allocation capability which allows privileged users to allocate queue counters. With this new feature, the get\_max\_qp\_cnt\_cur\_cap() returns a valid value when the UID is with UCTX\_CAP\_INTERNAL\_DEVICE\_RESOURCES, otherwise it returns 0.
- Added support for InfiniBand MAD packets capturing in RX RDMA Steering table.
- Added 50 Usec delay during PML1 exit to avoid any PCIe replay timer timeout.

### **Supported Devices and Features**

This software package contains the following firmware versions:

<b>Mellanox InfiniBand Adapter</b>	<b>Firmware Version</b>	<b>PSID</b>
HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 OCP3 MCX653435A-HDAI Adapter (P31323-B21 and P31323-H21)	20.34.1002	MT_0000000592

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

Version: 20.34.1002 **(Recommended)**

Filename: 20\_34\_1002-MCX653106A-HDA\_HPE\_Ax.pldm.fwpkg

### **Important Note!**

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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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### Enhancements

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New features and changes included in version 20.34.1002:

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- Added support for InfiniBand MAD packets capturing in RX RDMA Steering table.

- Added 50 Usec delay during PML1 exit to avoid any PCIe replay timer timeout.

## Supported Devices and Features

This software package contains the following firmware versions:

Mellanox InfiniBand Adapter	Firmware Version	PSID
HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 MCX653106A-HDAT Adapter(P31324-B21 and P31324-H21)	20.34.1002	MT_0000000594

Mellanox Firmware Package (FWPKG) for HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 OCP3 MCX653436A-HDAI Adapter : HPE part numbers P31348-B21 and P31348-H21  
Version: 20.34.1002 (**Recommended**)  
Filename: 20\_34\_1002-MCX653436A-HDA\_HPE\_Ax.pldm.fwpkg

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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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- Added Queue Counters Allocation capability which allows privileged users to allocate queue counters. With this new feature, the get\_max\_qp\_cnt\_cur\_cap() returns a valid value when the UID is with UCTX\_CAP\_INTERNAL\_DEVICE\_RESOURCES, otherwise it returns 0.
- Added support for InfiniBand MAD packets capturing in RX RDMA Steering table.
- Added 50 Usec delay during PML1 exit to avoid any PCIe replay timer timeout.

## Supported Devices and Features

This software package contains the following firmware versions:

Mellanox InfiniBand Adapter	Firmware Version	PSID
HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 OCP3 MCX653436A-HDAI Adapter (P31348-B21 and P31348-H21)	20.34.1002	MT_0000000593

Mellanox Firmware Package (FWPKG) for HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe4 x16 MCX653105A-ECAT Adapter :  
HPE part numbers P23665-B21 and P23665-H21  
Version: 20.34.1002 **(Recommended)**  
Filename: 20\_34\_1002-MCX653105A-ECA\_HPE\_Ax.pldm.fwpgk

## Important Note!

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## 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

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- Added support for InfiniBand MAD packets capturing in RX RDMA Steering table.
- Added 50 Usec delay during PML1 exit to avoid any PCIe replay timer timeout.

## Supported Devices and Features

This software package contains the following firmware versions:

Mellanox InfiniBand Adapter	Firmware Version	PSID
HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe4 x16 MCX653105A-ECAT Adapter (P23665-B21 and P23665-H21)	20.34.1002	MT_0000000452

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

Version: 20.34.1002 **(Recommended)**

Filename: 20\_34\_1002-MCX653106A-ECA\_HPE\_Ax.pldm.fwpgk

## 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

<b>EDR</b>	supported	supported	not supported	supported
<b>FDR</b>	not supported	not supported	not supported	not supported
<b>QDR/SDR</b>	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/ConnectX6Firmwarev20341002/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 20.34.1002:**

- "set\_flow\_table\_entry" failed when aso\_flow\_meter action was used.
- A race condition occurred between the duplicate read and QP commands (2RST, 2ERR and Destroy) in the signature that caused the command to get into an unresponsive state.
- Firmware update failed or timed out when multiple adapters of the same type were present on a system. This was fixed by adding "Command Unsupported" response code in cases when running the MCTP control command "Get Vendor Defined Messages Supported", and there were no supported VDMs.

### **Enhancements**

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

**New features and changes included in version 20.34.1002:**

- Added LLDPEnable, LLDPTransmit and LLDPReceive properties to the RDE Port schema implementation.
- Added Queue Counters Allocation capability which allows privileged users to allocate queue counters. With this new feature, the get\_max\_qp\_cnt\_cur\_cap() returns a valid value when the UID is with UCTX\_CAP\_INTERNAL\_DEVICE\_RESOURCES, otherwise it returns 0.
- Added support for InfiniBand MAD packets capturing in RX RDMA Steering table.
- Added 50 Usec delay during PML1 exit to avoid any PCIe replay timer timeout.

### **Supported Devices and Features**

This software package contains the following firmware versions:

<b>Mellanox InfiniBand Adapter</b>	<b>Firmware Version</b>	<b>PSID</b>
HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe4 x16 MCX653106A-ECAT Adapter (P23666-B21 and P23666-H21)	20.34.1002	MT_0000000453

## **Important Note!**

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A list of known issues with this release is available

at: <https://docs.nvidia.com/networking/display/ConnectX6DxFirmwarev22341002/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 22.34.1002:**

- An issue that caused the destroy\_match\_definer object command to fail after dumping it using resource\_dump.
- An issue where set\_flow\_table\_entry failed when aso\_flow\_meter action was used.
- An issue where firmware update failed or timed out when multiple adapters of the same type were present on a system. This was fixed by adding "Command Unsupported" response code in cases when running the MCTP control command "Get Vendor Defined Messages Supported", and there were no supported VDMs.

## **Enhancements**

**New features and changes included in version 22.34.1002:**

- Added LLDPEnable, LLDPTransmit and LLDPReceive properties to the RDE Port schema implementation.
- Added a 22 nanosecond of propagation delay to the cable delay of the PPS signal when using PPS out.
- Added support for PPCC register with bulk operations, MAD for algorithm configuration and tunable parameters.
- Added support for programmable counters for PCC via PPCC register and MAD.
- Added support for RX multi-host rate limit using an enabler script.
- A new capability that allows privileged users to allocate queue counters. In this new feature the get\_max\_qp\_cnt\_cur\_cap() returns a valid value when the UID is with UCTX\_CAP\_INTERNAL\_DEVICE\_RESOURCES, otherwise it returns 0.
- Enabled Multi-Host RX Rate-limiter configuration via the QEEC mlxreg and the max\_shaper\_rate field.
- Added a new NVconfig parameter "MULTI\_PCI\_RESOURCE\_SHARE" to support modes that allow choosing the utilization of the card's resources on each host in Socket-Direct / Multi host setup.
- Added 50 Usec delay during PML1 exit to avoid any PCIe replay timer timeout.

## **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

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

Version: 22.34.1002 **(Recommended)**

Filename: 22\_34\_1002-MCX623106AS-CDA\_Ax.pldm.fwpkg

## **Important Note!**

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A list of known issues with this release is available

at: <https://docs.nvidia.com/networking/display/ConnectX6DxFirmwarev22341002/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 22.34.1002:

- An issue that caused the destroy\_match\_definer object command to fail after dumping it using resource\_dump.
- An issue where set\_flow\_table\_entry failed when aso\_flow\_meter action was used.
- An issue where firmware update failed or timed out when multiple adapters of the same type were present on a system. This was fixed by adding "Command Unsupported" response code in cases when running the MCTP control command "Get Vendor Defined Messages Supported", and there were no supported VDMs.

## Enhancements

### New features and changes included in version 22.34.1002:

- Added LLDPEnable, LLDPTransmit and LLDPReceive properties to the RDE Port schema implementation.
- Added a 22 nanosecond of propagation delay to the cable delay of the PPS signal when using PPS out.
- Added support for PPCC register with bulk operations, MAD for algorithm configuration and tunable parameters.
- Added support for programmable counters for PCC via PPCC register and MAD.
- Added support for RX multi-host rate limit using an enabler script.
- A new capability that allows privileged users to allocate queue counters. In this new feature the get\_max\_qp\_cnt\_cur\_cap() returns a valid value when the UID is with UCTX\_CAP\_INTERNAL\_DEVICE\_RESOURCES, otherwise it returns 0.
- Enabled Multi-Host RX Rate-limiter configuration via the QEEC mlxreg and the max\_shaper\_rate field.
- Added a new NVconfig parameter "MULTI\_PCI\_RESOURCE\_SHARE" to support modes that allow choosing the utilization of the card's resources on each host in Socket-Direct / Multi host setup.
- Added 50 Usec delay during PML1 exit to avoid any PCIe replay timer timeout.

## Supported Devices and Features

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

## Firmware - Storage Controller

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

Version: 1.2.14.1004 (**Recommended**)

Filename: HPE\_NS204i\_Gen10P\_1.2.14.1004.fwpkg

### Important Note!

This firmware version is to be used on NS204i controllers.

Use iLO to flash HPE\_NS204i\_Gen10P\_PLDM\_xxxx.fwpkg above 1.0.14.1055.; continuously HPE offers PLDM Type5 FW flash through .fwpkg file only.

Please find the minimum version required (1.0.14.1055) in below links:

- Windows <https://support.hpe.com/hpesc/public/swd/detail?swItemId=MTX-1b2c98e9d2594b9db679e89bbe#tab-history>
- Linux <https://support.hpe.com/hpesc/public/swd/detail?swItemId=MTX-207ea7e739f048049a66d61008#tab-history>
- VMware [https://support.hpe.com/hpesc/public/swd/detail?swItemId=MTX\\_141038fe565b457ca9fe4d28de#tab-history](https://support.hpe.com/hpesc/public/swd/detail?swItemId=MTX_141038fe565b457ca9fe4d28de#tab-history)

## Enhancements

1. Thermal warning threshold modification;
2. IML optimization;
3. Error handling improvement when receive unsupported commands.

Firmware Package - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408e-m, P204i-c and P816i-a SR Gen10

Version: 5.61 (**Recommended**)

Filename: HPE\_SR\_Gen10\_5.61\_A.fwpkg

## Prerequisites

- The pre-requisite is to upgrade FW to 5.00 to enable the PLDM FW update functionality for adapter through Windows/Linux/ESXi smart components, after that you are able to use FWPKG file to update via iLO without any OS dependency.
- iLO 5 version 2.65 or later is required.

## Enhancements

For 2023 March MSB

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Firmware Package - HPE MR216i-a Gen10 Plus Tri Mode Controller  
Version: 52.22.3-4650 (**Recommended**)  
Filename: HPE\_MR216i-a\_Gen10\_52.22.3-4650.fwpkg

## Important Note!

**This firmware version to be used on HPE MR216i-a Gen10 Plus Controller.**

## Fixes

- DMTF PLDM Redfish Device Enablement fixes
  - Fix an issue that Redfish Drive Revision is not updated after firmware update (DCSG01225086)
  - Fix an issue that Redfish Volume Operations.Rebuilding showed PercentageComplete progress as "-1" anytime progress was at 0% (DCSG01251914)
  - Fix an issue that Redfish Volume DurableName returns an incorrect NAA value (DCSG01255834)
  - Fix an issue that Redfish Storage Status.HealthRollup is not moving to "Critical" state when the Drive Status.Health changed to "Critical" (DCSG01282225)
  - Fix an issue that VolumeDegraded alert was not generated when importing a degraded volume on the controller (DCSG01285249)
  - Fix an issue that ControllerOK alert was logged even though no ControllerFailure alert was corrected (DCSG01285259)
- Fix an issue that assertion failure may occur if pulling drive during reconstruction (DCSG01054517)
- Fix a rare issue that SATA drive may not be detected during hot plug (DCSG00975159)
- Fix an issue that assertion failure may occur on reboot when copyback operation is running (DCSG01310309)
- Fix an issue that firmware may not respond to host interface after returning success to stop BGI / CC of an offline VD (DCSG01185811)
- Fix wrong consistency state of single-drive RAID 0 after setting physical drive offline then online (DCSG01141800)
- Fix an issue that Linux kdump cannot be generated when device order is enabled. (DCSG01170243)
- Fix an issue that configuration is not exposed by controller on windows OS when device order is enabled (DCSG01184008)
- Fix an issue that firmware logging CDB failure sense event is logged twice for each failure (DCSG01149411)
- Fix an issue that SNTL Generic command Status successful completion with no SenseKey is sending wrong SCSI status to application (DCSG01146888)
- Fix an issue that Data Miscompare observed with sliced RAID 5 Logical Drives during write(cache) policy change (DCSG01161554)
- Fix an rare issue that controller cache might be lost during Cache Offload Loop (DCSG01108247)
- Fix an issue that Cryptographic Erase fails on an UG Bad SED drive, but return success (DCSG01106797)
- Fix an issue that firmware hang observed during controller boot. (DCSG01142137)
- Fix an issue that IML event 0x1906 might be incorrectly logged when clear JBOD config and do firmware update (DCSG01285247)
- Cache flush parameters is not applicable for MR216 controllers. Fix to not allow user modification. (DCSG01315513)
- Fix a rare case that secured configured drives may change to unconfigured after reboot (DCSG01249672)
- Fix an issue that controller may not detect Energy Pack in low voltage status. (DCSG01299799)
- Fix an issue that firmware may crash after reconstruction completes and IO running (DCSG01292231)
- Fix an issue that Foreign import error message in HII is not correct when max limit for Logical Drives and JBODs have reached on the controller (DCSG01082455)
- Fix an issue that Foreign config option is not enabled/not showing for foreign UG Bad drive (DCSG01107298)
- Fix an issue that SAS Storage Link speed in HII is not proper when no drives are connected (DCSG01184839)
- Fix an issue that IO Timeout and drive may become unavailable/offline while running Unmap, SATA Passthrough and Read/Write IO to a SATA drive at the same time (DCSG00654439)
- Fix PCI controller discovery issue when "Microsoft Secured Core" or "AMD DMA Remapping" options enabled in RBSU (DCSG01044366)
- Fix a00126259en\_us: HPE Gen10 Plus Tri Mode Controllers - Predictive Failed LED Is Not Illuminated Until the Drive Is Operational (DCSG01257527)
- Fix a00125739en\_us: HPE ProLiant Gen10 Plus - SAS-4 Drive Speed on the MR216i/MR416i Controller Is Not Displayed Correctly and Is Not Supported in the MRSA and BIOS/Platform Configuration (RBSU)

## Enhancements

- Support for DMTF PLDM firmware update for UBM backplane (DCSG01132100)

- Support UBM backplanes in Redfish Firmware Inventory and Chassis Devices (DCSG01221115)
- Support for updating newer on-board PSoC devices (DCSG01203313)
- Add SATL support for ATA Passthrough command field T\_LENGTH (value 11b) (DCSG01035026)
- Support Sanitize Overwrite and Sanitize Block operations on UG drives (DCSG00966714)
- DMTF PLDM Redfish Device Enablement enhancements
  - Update to 2021.4 schema bundle (DCSG01107680)
  - Add controller P/N and SKU details in redfish controller schema (DCSG01218243)
  - Support online controller firmware update and activation through DMTF PLDM firmware update

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Firmware Package - HPE MR216i-p Gen10 Plus Tri Mode Controller with Gen10 and Gen10 Plus servers

Version: 52.22.3-4650 (B) **(Recommended)**

Filename: HPE\_MR216i-p\_Gen10\_52.22.3-4650\_B.fwpkg

### **Important Note!**

**This firmware version to be used on HPE MR216i-p Gen10 Plus Controller.**

### **Fixes**

- DMTF PLDM Redfish Device Enablement fixes
  - Fix an issue that Redfish Drive Revision is not updated after firmware update (DCSG01225086)
  - Fix an issue that Redfish Volume Operations.Rebuilding showed PercentageComplete progress as "-1" anytime progress was at 0% (DCSG01251914)
  - Fix an issue that Redfish Volume DurableName returns an incorrect NAA value (DCSG01255834)
  - Fix an issue that Redfish Storage Status.HealthRollup is not moving to "Critical" state when the Drive Status.Health changed to "Critical" (DCSG01282225)
  - Fix an issue that VolumeDegraded alert was not generated when importing a degraded volume on the controller (DCSG01285249)
  - Fix an issue that ControllerOK alert was logged even though no ControllerFailure alert was corrected (DCSG01285259)
- Fix an issue that assertion failure may occurs if pulling drive during reconstruction (DCSG01054517)
- Fix a rare issue that SATA drive may not be detected during hot plug (DCSG00975159)
- Fix an issue that assertion failure may occur on reboot when copyback operation is running (DCSG01310309)
- Fix an issue that firmware may not respond to host interface after returning success to stop BGI / CC of an offline VD (DCSG01185811)
- Fix wrong consistency state of single-drive RAID 0 after setting physical drive offline then online (DCSG01141800)
- Fix an issue that Linux kdump cannot be generated when device order is enabled. (DCSG01170243)
- Fix an issue that configuration is not exposed by controller on windows OS when device order is enabled (DCSG01184008)
- Fix an issue that firmware logging CDB failure sense event is logged twice for each failure (DCSG01149411)
- Fix an issue that SNTL Generic command Status successful completion with no SenseKey is sending wrong SCSI status to application (DCSG01146888)
- Fix an issue that Data Miscompare observed with sliced RAID 5 Logical Drives during write(cache) policy change (DCSG01161554)
- Fix an rare issue that controller cache might be lost during Cache Offload Loop (DCSG01108247)
- Fix an issue that Cryptographic Erase fails on an UG Bad SED drive, but return success (DCSG01106797)
- Fix an issue that firmware hang observed during controller boot. (DCSG01142137)
- Fix an issue that IML event 0x1906 might be incorrectly logged when clear JBOD config and do firmware update (DCSG01285247)
- Cache flush parameters is not applicable for MR216 controllers. Fix to not allow user modification. (DCSG01315513)
- Fix a rare case that secured configured drives may change to unconfigured after reboot (DCSG01249672)
- Fix an issue that controller may not detect Energy Pack in low voltage status. (DCSG01299799)
- Fix an issue that firmware may crash after reconstruction completes and IO running (DCSG01292231)
- Fix an issue that Foreign import error message in HII is not correct when max limit for Logical Drives and JBODs have reached on the controller (DCSG01082455)
- Fix an issue that Foreign config option is not enabled/not showing for foreign UG Bad drive (DCSG01107298)
- Fix an issue that SAS Storage Link speed in HII is not proper when no drives are connected (DCSG01184839)
- Fix an issue that IO Timeout and drive may become unavailable/offline while running Unmap, SATA Passthrough and Read/Write IO to a SATA drive at the same time (DCSG00654439)
- Fix PCI controller discovery issue when "Microsoft Secured Core" or "AMD DMA Remapping" options enabled in RBSU (DCSG01044366)
- Fix a00126259en\_us: HPE Gen10 Plus Tri Mode Controllers - Predictive Failed LED Is Not Illuminated Until the Drive Is Operational (DCSG01257527)
- Fix a00125739en\_us: HPE ProLiant Gen10 Plus - SAS-4 Drive Speed on the MR216i/MR416i Controller Is Not Displayed Correctly and Is Not Supported in the MRSA and BIOS/Platform Configuration (RBSU)

### **Enhancements**

- Support for DMTF PLDM firmware update for UBM backplane (DCSG01132100)
- Support UBM backplanes in Redfish Firmware Inventory and Chassis Devices (DCSG01221115)
- Support for updating newer on-board PSoC devices (DCSG01203313)
- Add SATL support for ATA Passthrough command field T\_LENGTH (value 11b) (DCSG01035026)

- Support Sanitize Overwrite and Sanitize Block operations on UG drives (DCSG00966714)
- DMTF PLDM Redfish Device Enablement enhancements
  - Update to 2021.4 schema bundle (DCSG01107680)
  - Add controller P/N and SKU details in redfish controller schema (DCSG01218243)
  - Support online controller firmware update and activation through DMTF PLDM firmware update

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

Version: 52.22.3-4650 **(Recommended)**

Filename: HPE\_MR416i-a\_Gen10\_52.22.3-4650.fwpkg

### **Important Note!**

**This firmware version to be used on HPE MR416i-a Gen10 Plus Controller.**

### **Fixes**

- DMTF PLDM Redfish Device Enablement fixes
  - Fix an issue that Redfish Drive Revision is not updated after firmware update (DCSG01225086)
  - Fix an issue that Redfish Volume Operations.Rebuilding showed PercentageComplete progress as "-1" anytime progress was at 0% (DCSG01251914)
  - Fix an issue that Redfish Volume DurableName returns an incorrect NAA value (DCSG01255834)
  - Fix an issue that Redfish Storage Status.HealthRollup is not moving to "Critical" state when the Drive Status.Health changed to "Critical" (DCSG01282225)
  - Fix an issue that VolumeDegraded alert was not generated when importing a degraded volume on the controller (DCSG01285249)
  - Fix an issue that ControllerOK alert was logged even though no ControllerFailure alert was corrected (DCSG01285259)
- Fix an issue that assertion failure may occur if pulling drive during reconstruction (DCSG01054517)
- Fix a rare issue that SATA drive may not be detected during hot plug (DCSG00975159)
- Fix an issue that assertion failure may occur on reboot when copyback operation is running (DCSG01310309)
- Fix an issue that firmware may not respond to host interface after returning success to stop BGI / CC of an offline VD (DCSG01185811)
- Fix wrong consistency state of single-drive RAID 0 after setting physical drive offline then online (DCSG01141800)
- Fix an issue that Linux kdump cannot be generated when device order is enabled. (DCSG01170243)
- Fix an issue that configuration is not exposed by controller on windows OS when device order is enabled (DCSG01184008)
- Fix an issue that firmware logging CDB failure sense event is logged twice for each failure (DCSG01149411)
- Fix an issue that SNTL Generic command Status successful completion with no SenseKey is sending wrong SCSI status to application (DCSG01146888)
- Fix an issue that Data Miscompare observed with sliced RAID 5 Logical Drives during write(cache) policy change (DCSG01161554)
- Fix an rare issue that controller cache might be lost during Cache Offload Loop (DCSG01108247)
- Fix an issue that Cryptographic Erase fails on an UG Bad SED drive, but return success (DCSG01106797)
- Fix an issue that firmware hang observed during controller boot. (DCSG01142137)
- Fix an issue that IML event 0x1906 might be incorrectly logged when clear JBOD config and do firmware update (DCSG01285247)
- Cache flush parameters is not applicable for MR216 controllers. Fix to not allow user modification. (DCSG01315513)
- Fix a rare case that secured configured drives may change to unconfigured after reboot (DCSG01249672)
- Fix an issue that controller may not detect Energy Pack in low voltage status. (DCSG01299799)
- Fix an issue that firmware may crash after reconstruction completes and IO running (DCSG01292231)
- Fix an issue that Foreign import error message in HII is not correct when max limit for Logical Drives and JBODs have reached on the controller (DCSG01082455)
- Fix an issue that Foreign config option is not enabled/not showing for foreign UG Bad drive (DCSG01107298)
- Fix an issue that SAS Storage Link speed in HII is not proper when no drives are connected (DCSG01184839)
- Fix an issue that IO Timeout and drive may become unavailable/offline while running Unmap, SATA Passthrough and Read/Write IO to a SATA drive at the same time (DCSG00654439)
- Fix PCI controller discovery issue when "Microsoft Secured Core" or "AMD DMA Remapping" options enabled in RBSU (DCSG01044366)
- Fix a00126259en\_us: HPE Gen10 Plus Tri Mode Controllers - Predictive Failed LED Is Not Illuminated Until the Drive Is Operational (DCSG01257527)
- Fix a00125739en\_us: HPE ProLiant Gen10 Plus - SAS-4 Drive Speed on the MR216i/MR416i Controller Is Not Displayed Correctly and Is Not Supported in the MRSA and BIOS/Platform Configuration (RBSU)

### **Enhancements**

- Support for DMTF PLDM firmware update for UBM backplane (DCSG01132100)
- Support UBM backplanes in Redfish Firmware Inventory and Chassis Devices (DCSG01221115)
- Support for updating newer on-board PSoc devices (DCSG01203313)
- Add SATL support for ATA Passthrough command field T\_LENGTH (value 11b) (DCSG01035026)
- Support Sanitize Overwrite and Sanitize Block operations on UG drives (DCSG00966714)
- DMTF PLDM Redfish Device Enablement enhancements
  - Update to 2021.4 schema bundle (DCSG01107680)



- Add controller P/N and SKU details in redfish controller schema (DCSG01218243)
- Support online controller firmware update and activation through DMTF PLDM firmware update

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Firmware Package - HPE MR416i-p Gen10 Plus Tri Mode Controller with Gen10 and Gen10 Plus servers

Version: 52.22.3-4650 (B) (**Recommended**)

Filename: HPE\_MR416i-p\_Gen10\_52.22.3-4650\_B.fwpkg

### **Important Note!**

**This firmware version to be used on HPE MR416i-p Gen10 Plus Controller.**

### **Fixes**

- DMTF PLDM Redfish Device Enablement fixes
  - Fix an issue that Redfish Drive Revision is not updated after firmware update (DCSG01225086)
  - Fix an issue that Redfish Volume Operations.Rebuilding showed PercentageComplete progress as "-1" anytime progress was at 0% (DCSG01251914)
  - Fix an issue that Redfish Volume DurableName returns an incorrect NAA value (DCSG01255834)
  - Fix an issue that Redfish Storage Status.HealthRollup is not moving to "Critical" state when the Drive Status.Health changed to "Critical" (DCSG01282225)
  - Fix an issue that VolumeDegraded alert was not generated when importing a degraded volume on the controller (DCSG01285249)
  - Fix an issue that ControllerOK alert was logged even though no ControllerFailure alert was corrected (DCSG01285259)
- Fix an issue that assertion failure may occurs if pulling drive during reconstruction (DCSG01054517)
- Fix a rare issue that SATA drive may not be detected during hot plug (DCSG00975159)
- Fix an issue that assertion failure may occur on reboot when copyback operation is running (DCSG01310309)
- Fix an issue that firmware may not respond to host interface after returning success to stop BGI / CC of an offline VD (DCSG01185811)
- Fix wrong consistency state of single-drive RAID 0 after setting physical drive offline then online (DCSG01141800)
- Fix an issue that Linux kdump cannot be generated when device order is enabled. (DCSG01170243)
- Fix an issue that configuration is not exposed by controller on windows OS when device order is enabled (DCSG01184008)
- Fix an issue that firmware logging CDB failure sense event is logged twice for each failure (DCSG01149411)
- Fix an issue that SNTL Generic command Status successful completion with no SenseKey is sending wrong SCSI status to application (DCSG01146888)
- Fix an issue that Data Miscompare observed with sliced RAID 5 Logical Drives during write(cache) policy change (DCSG01161554)
- Fix an rare issue that controller cache might be lost during Cache Offload Loop (DCSG01108247)
- Fix an issue that Cryptographic Erase fails on an UG Bad SED drive, but return success (DCSG01106797)
- Fix an issue that firmware hang observed during controller boot. (DCSG01142137)
- Fix an issue that IML event 0x1906 might be incorrectly logged when clear JBOD config and do firmware update (DCSG01285247)
- Cache flush parameters is not applicable for MR216 controllers. Fix to not allow user modification. (DCSG01315513)
- Fix a rare case that secured configured drives may change to unconfigured after reboot (DCSG01249672)
- Fix an issue that controller may not detect Energy Pack in low voltage status. (DCSG01299799)
- Fix an issue that firmware may crash after reconstruction completes and IO running (DCSG01292231)
- Fix an issue that Foreign import error message in HII is not correct when max limit for Logical Drives and JBODs have reached on the controller (DCSG01082455)
- Fix an issue that Foreign config option is not enabled/not showing for foreign UG Bad drive (DCSG01107298)
- Fix an issue that SAS Storage Link speed in HII is not proper when no drives are connected (DCSG01184839)
- Fix an issue that IO Timeout and drive may become unavailable/offline while running Unmap, SATA Passthrough and Read/Write IO to a SATA drive at the same time (DCSG00654439)
- Fix PCI controller discovery issue when "Microsoft Secured Core" or "AMD DMA Remapping" options enabled in RBSU (DCSG01044366)
- Fix a00126259en\_us: HPE Gen10 Plus Tri Mode Controllers - Predictive Failed LED Is Not Illuminated Until the Drive Is Operational (DCSG01257527)
- Fix a00125739en\_us: HPE ProLiant Gen10 Plus - SAS-4 Drive Speed on the MR216i/MR416i Controller Is Not Displayed Correctly and Is Not Supported in the MRSA and BIOS/Platform Configuration (RBSU)

### **Enhancements**

- Support for DMTF PLDM firmware update for UBM backplane (DCSG01132100)
- Support UBM backplanes in Redfish Firmware Inventory and Chassis Devices (DCSG01221115)
- Support for updating newer on-board PSoC devices (DCSG01203313)
- Add SATL support for ATA Passthrough command field T\_LENGTH (value 11b) (DCSG01035026)
- Support Sanitize Overwrite and Sanitize Block operations on UG drives (DCSG00966714)
- DMTF PLDM Redfish Device Enablement enhancements
  - Update to 2021.4 schema bundle (DCSG01107680)
  - Add controller P/N and SKU details in redfish controller schema (DCSG01218243)
  - Support online controller firmware update and activation through DMTF PLDM firmware update

Firmware Package - HPE SR932i-p Gen10 Plus /SR416i-a Gen10 Plus Controllers  
Version: 03.01.17.056 **(Recommended)**  
Filename: HPE\_SR416\_SR932\_Gen10P\_03.01.17.056\_A.fwpkg

### Enhancements

For 2023 March MSB SPP

### Firmware - Storage Fibre Channel

[Top](#)

HPE Firmware Flash for Emulex 16/32Gb Fibre Channel Host Bus Adapters  
Version: 14.0.499.29 **(Recommended)**  
Filename: B14.0.499.29\_header.pldm.fwpkg

### Important Note!

NOTE: This is the first PLDM fwpkg component release and is not supported for upgrade from older versions.

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	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	16Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0

### Enhancements

NOTE: This is the first PLDM fwpkg component release and is not supported for upgrade from older versions.

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	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	16Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0

### Supported Devices and Features

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

#### 16Gb FC Adapter:

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

#### 32Gb FC Adapter:

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

HPE Firmware Flash for Emulex 32Gb and 64Gb Fibre Channel Host Bus Adapters  
Version: 14.0.499.29 **(Recommended)**  
Filename: P14.0.499.29\_header.pldm.fwpkg

### Important Note!

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
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Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0

## Enhancements

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0

## Supported Devices and Features

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

### **32Gb Fibre Channel Host Bus Adapter:**

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

### **64Gb Fibre Channel Host Bus Adapter:**

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

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

Version: 2023.03.01 **(Recommended)**

Filename: CP054527.compsig; CP054527.zip

## Important Note!

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	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	16Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0

## Prerequisites

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

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

## Enhancements

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	16Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	16Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0
HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0

## Supported Devices and Features

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

### 16Gb FC Adapter:

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

### 32Gb FC Adapter:

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

### 64Gb FC Adapter:

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

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

Version: 2023.03.01 **(Recommended)**

Filename: CP054428.compsig; CP054428.zip

## Important Note!

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	02.00.01	9.09.00	7.19	3.64
HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter	16Gb	02.00.01	9.09.00	7.19	3.64
HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.00.01	9.09.00	7.19	3.64
HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.00.01	9.09.00	7.19	3.64
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.07.03	09.09.20	7.28	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.07.03	09.09.20	7.28	0.0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.07.03	09.09.20	7.28	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.07.03	09.09.20	7.28	0.0

## Prerequisites

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

## 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	02.00.01	9.09.00	7.19	3.64
HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter	16Gb	02.00.01	9.09.00	7.19	3.64
HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.00.01	9.09.00	7.19	3.64
HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.00.01	9.09.00	7.19	3.64
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.07.03	09.09.20	7.28	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.07.03	09.09.20	7.28	0.0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.07.03	09.09.20	7.28	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.07.03	09.09.20	7.28	0.0

## Supported Devices and Features

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

### 16Gb Fibre Channel Host Bus Adapter:

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

### 32Gb Fibre Channel Host Bus Adapter:

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

### 64Gb Fibre Channel Host Bus Adapter:

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

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## Software - Management

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

Version: 2023.02.01 **(Recommended)**

Filename: cp054509.compsig; cp054509.zip

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## Fixes

### Agentless Management Service

- Removed incorrect reporting of NS204i device in cpqSePCIEDisk MIB.
- Fixed incorrect speed of 100G network adapter reported in cpqNicIfPhysAdapterSpeedMbps OID.
- Fixed missing OS Logical Disk entries in the iLO AHS log.

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

Version: 2023.02.01 (B) **(Recommended)**

Filename: cp054791.compsig; cp054791.zip

## Enhancements

for 2023 Web Feb usage.

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## Software - Storage Fibre Channel

HPE QLogic Fibre Channel driver component for VMware vSphere 8.0

Version: 2023.03.01 **(Recommended)**

Filename: cp054426.compsig; cp054426.zip

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## **Important Note!**

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

## **Prerequisites**

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

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

## **Enhancements**

Driver version 5.3.1.0

## **Supported Devices and Features**

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

### **16Gb Fibre Channel Host Bus Adapter:**

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

### **32Gb Fibre Channel Host Bus Adapter:**

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

### **64Gb Fibre Channel Host Bus Adapter:**

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

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## **Software - System Management**

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

Version: 701.11.9.0 (**Recommended**)

Filename: amsdComponent\_701.11.9.0.9-1\_20793680.zip

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## **Fixes**

### **Agentless Management Service**

- Removed incorrect reporting of NS204i device in cpqSePCleDisk MIB.
- Fixed incorrect speed of 100G network adapter reported in cpqNicIfPhysAdapterSpeedMbps OID.
- Fixed missing OS Logical Disk entries in the iLO AHS log.

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Smart Storage Administrator (SSA) CLI for VMware 8.0

Version: 6.15.11.0 (**Recommended**)

Filename: ssacli2-component\_6.15.11.0-8.0.0\_20754055.zip

## **Enhancements**

Gen11 PR2 Usage

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Get connected

[hpe.com/info/getconnected](https://hpe.com/info/getconnected)

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

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Updated February 21 2023

