

## VMware Deliverable Release Notes

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

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

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

[OS Support Tool for HPE Synergy](#)

Information on HPE Synergy Software Releases is available at:

[HPE Synergy Software Releases - Overview](#)

---

## Gen11 SPP 2024.09.00.00 Release Notes for VMware ESXi 8.0

[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](#)

### BIOS - System ROM

[Top](#)

ROM Flash Firmware Package - HPE ProLiant DL110 Gen11 (U62) Servers

Version: 2.30\_08-09-2024 (**Recommended**)

Filename: U62\_2.30\_08\_09\_2024.fwpkg

### Important Note!

#### **Important Notes:**

This version of the System ROM contains updates aligned with the Intel uPLR2 guidance. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.047.0 (2.20\_03\_26\_2024).

#### **Deliverable Name:**

HPE DL110 Gen11 System ROM - U62

#### **Release Version:**

2.30\_08-09-2024

#### **Last Recommended or Critical Revision:**

2.30\_08-09-2024

#### **Previous Revision:**

2.22\_06-19-2024

#### **Firmware Dependencies:**

iLO6 v1.62 is NOT compatible with the Windows and Linux System ROM Smart Flash Components for versions of the System ROM prior to v2.30. The System ROM Smart Flash Components released with System ROM v2.30 will work with iLO6 v1.62. For any systems utilizing iLO6 v1.62 or later, flashing the System ROM to versions prior to v2.30 requires utilizing Fwpkg or ROM binary instead of using the Windows or Linux Smart Flash Components.

#### **Enhancements/New Features:**

Updated some Japanese translation

Added support for 12 DIMM per CPU population mixed rank.

#### **Problems Fixed:**

Addressed an issue where duplicated and incorrect task status were logged iLO Event Log.

Addressed an issue where multiple KEK instances appeared after the enrollment of KEK certificate from Redfish API.

Addressed an issue where UEFI secure boot dbr signatures were not deleted after deleting all keys via Redfish API.

Addressed an issue where Negotiated Link Width in RBSU showed incorrect information after configuring bifurcation.

Addressed an issue where system may encounter RSOD after enrollment of an improper certificate.

Addressed an issue where the Logical Drive name was cleared in RBSU after leaving the configuration page of MR controllers.

Addressed an issue where Redfish BIOS actions, ResetBios and ChangePassword may not work.

Addressed a secure boot database synchronizing issue via Redfish API.

Addressed an issue where an error message is displayed with 12-DIMM per CPU and DIMM rank mixing for unsupported DIMM configurations.

Addressed an issue that Battery Failure IML message log may be incorrectly logged for Smart Array Controller with Smart Storage Battery.

Addressed an issue where NS204i may not be identified as an NVMe device.

Addressed an issue when setting "Workload Profile" to 'Custom' and changing "Processor Monitor/Mwait Support" to 'Disabled'. "Processor Monitor/Mwait Support" knob is not seen in the BIOS->Service Options.

Addressed an issue where the driver Health Message was shown twice in POST when drive was removed and ran cold boot.

**Known Issues:**

None

**Fixes**

**Important Notes:**

This version of the System ROM contains updates aligned with the Intel uPLR2 guidance. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.047.0 (2.20\_03\_26\_2024).

**Firmware Dependencies:**

iLO6 v1.62 is NOT compatible with the Windows and Linux System ROM Smart Flash Components for versions of the System ROM prior to v2.30. The System ROM Smart Flash Components released with System ROM v2.30 will work with iLO6 v1.62. For any systems utilizing iLO6 v1.62 or later, flashing the System ROM to versions prior to v2.30 requires utilizing Fwpkg or ROM binary instead of using the Windows or Linux Smart Flash Components.

**Problems Fixed:**

Addressed an issue where duplicated and incorrect task status were logged iLO Event Log.

Addressed an issue where multiple KEK instances appeared after the enrollment of KEK certificate from Redfish API.

Addressed an issue where UEFI secure boot dbr signatures were not deleted after deleting all keys via Redfish API.

Addressed an issue where Negotiated Link Width in RBSU showed incorrect information after configuring bifurcation.

Addressed an issue where system may encounter RSOD after enrollment of an improper certificate.

Addressed an issue where the Logical Drive name was cleared in RBSU after leaving the configuration page of MR controllers.

Addressed an issue where Redfish BIOS actions, ResetBios and ChangePassword may not work.

Addressed a secure boot database synchronizing issue via Redfish API.

Addressed an issue where an error message is displayed with 12-DIMM per CPU and DIMM rank mixing for unsupported DIMM configurations.

Addressed an issue that Battery Failure IML message log may be incorrectly logged for Smart Array Controller with Smart Storage Battery.

Addressed an issue where NS204i may not be identified as an NVMe device.

Addressed an issue when setting "Workload Profile" to 'Custom' and changing "Processor Monitor/Mwait Support" to 'Disabled'. "Processor Monitor/Mwait Support" knob is not seen in the BIOS->Service Options.

Addressed an issue where the driver Health Message was shown twice in POST when drive was removed and ran cold boot.

**Known Issues:**

None

**Enhancements**

Updated some Japanese translation

Added support for 12 DIMM per CPU population mixed rank.

## **Important Note!**

### **Important Notes:**

This version of the System ROM contains updates aligned with the Intel uPLR2 guidance. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.047.0 (2.20\_03\_26\_2024).

### **Deliverable Name:**

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

### **Release Version:**

2.30\_08-09-2024

### **Last Recommended or Critical Revision:**

2.30\_08-09-2024

### **Previous Revision:**

2.22\_06-19-2024

### **Firmware Dependencies:**

iLO6 v1.62 is NOT compatible with the Windows and Linux System ROM Smart Flash Components for versions of the System ROM prior to v2.30. The System ROM Smart Flash Components released with System ROM v2.30 will work with iLO6 v1.62. For any systems utilizing iLO6 v1.62 or later, flashing the System ROM to versions prior to v2.30 requires utilizing Fwpkg or ROM binary instead of using the Windows or Linux Smart Flash Components.

### **Enhancements/New Features:**

Updated some Japanese translation

Added support for 12 DIMM per CPU population mixed rank.

### **Problems Fixed:**

Addressed an issue where duplicated and incorrect task status were logged iLO Event Log.

Addressed an issue where multiple KEK instances appeared after the enrollment of KEK certificate from Redfish API.

Addressed an issue where UEFI secure boot dbr signatures were not deleted after deleting all keys via Redfish API.

Addressed an issue where Negotiated Link Width in RBSU showed incorrect information after configuring bifurcation.

Addressed an issue where system may encounter RSOD after enrollment of an improper certificate.

Addressed an issue where the Logical Drive name was cleared in RBSU after leaving the configuration page of MR controllers.

Addressed an issue where Redfish BIOS actions, ResetBios and ChangePassword may not work.

Addressed a secure boot database synchronizing issue via Redfish API.

Addressed an issue where an error message is displayed with 12-DIMM per CPU and DIMM rank mixing for unsupported DIMM configurations.

Addressed an issue that Battery Failure IML message log may be incorrectly logged for Smart Array Controller with Smart Storage Battery.

Addressed an issue where NS204i may not be identified as an NVMe device.

Addressed an issue when setting "Workload Profile" to 'Custom' and changing "Processor Monitor/Mwait Support" to 'Disabled'. "Processor Monitor/Mwait Support" knob is not seen in the BIOS->Service Options.

Addressed an issue where the driver Health Message was shown twice in POST when drive was removed and ran cold boot.

### **Known Issues:**

None

## **Fixes**

### **Important Notes:**

This version of the System ROM contains updates aligned with the Intel uPLR2 guidance. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.047.0 (2.20\_03\_26\_2024).

### **Firmware Dependencies:**

iLO6 v1.62 is NOT compatible with the Windows and Linux System ROM Smart Flash Components for versions of the System ROM

prior to v2.30. The System ROM Smart Flash Components released with System ROM v2.30 will work with iLO6 v1.62. For any systems utilizing iLO6 v1.62 or later, flashing the System ROM to versions prior to v2.30 requires utilizing Fwpkg or ROM binary instead of using the Windows or Linux Smart Flash Components.

#### **Problems Fixed:**

Addressed an issue where duplicated and incorrect task status were logged iLO Event Log.

Addressed an issue where multiple KEK instances appeared after the enrollment of KEK certificate from Redfish API.

Addressed an issue where UEFI secure boot dbr signatures were not deleted after deleting all keys via Redfish API.

Addressed an issue where Negotiated Link Width in RBSU showed incorrect information after configuring bifurcation.

Addressed an issue where system may encounter RSOD after enrollment of an improper certificate.

Addressed an issue where the Logical Drive name was cleared in RBSU after leaving the configuration page of MR controllers.

Addressed an issue where Redfish BIOS actions, ResetBios and ChangePassword may not work.

Addressed a secure boot database synchronizing issue via Redfish API.

Addressed an issue where an error message is displayed with 12-DIMM per CPU and DIMM rank mixing for unsupported DIMM configurations.

Addressed an issue that Battery Failure IML message log may be incorrectly logged for Smart Array Controller with Smart Storage Battery.

Addressed an issue where NS204i may not be identified as an NVMe device.

Addressed an issue when setting "Workload Profile" to 'Custom' and changing "Processor Monitor/Mwait Support" to 'Disabled'. "Processor Monitor/Mwait Support" knob is not seen in the BIOS->Service Options.

Addressed an issue where the driver Health Message was shown twice in POST when drive was removed and ran cold boot.

#### **Known Issues:**

None

#### **Enhancements**

Updated some Japanese translation

Added support for 12 DIMM per CPU population mixed rank.

---

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

Version: 2.30\_08-09-2024 (**Recommended**)

Filename: U58\_2.30\_08\_09\_2024.fwpkg

#### **Important Note!**

##### **Important Notes:**

This version of the System ROM contains updates aligned with the Intel uPLR2 guidance. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.047.0 (2.20\_03\_26\_2024).

##### **Deliverable Name:**

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

##### **Release Version:**

2.30\_08-09-2024

##### **Last Recommended or Critical Revision:**

2.30\_08-09-2024

##### **Previous Revision:**

2.22\_06-19-2024

##### **Firmware Dependencies:**

iLO6 v1.62 is NOT compatible with the Windows and Linux System ROM Smart Flash Components for versions of the System ROM prior to v2.30. The System ROM Smart Flash Components released with System ROM v2.30 will work with iLO6 v1.62. For any systems utilizing iLO6 v1.62 or later, flashing the System ROM to versions prior to v2.30 requires utilizing Fwpkg or ROM binary instead of using the Windows or Linux Smart Flash Components.

### **Enhancements/New Features:**

Updated some Japanese translation

Added support for 12 DIMM per CPU population mixed rank.

### **Problems Fixed:**

Addressed an issue where duplicated and incorrect task status were logged iLO Event Log.

Addressed an issue where multiple KEK instances appeared after the enrollment of KEK certificate from Redfish API.

Addressed an issue where UEFI secure boot dbr signatures were not deleted after deleting all keys via Redfish API.

Addressed an issue where Negotiated Link Width in RBSU showed incorrect information after configuring bifurcation.

Addressed an issue where system may encounter RSOD after enrollment of an improper certificate.

Addressed an issue where the Logical Drive name was cleared in RBSU after leaving the configuration page of MR controllers.

Addressed an issue where Redfish BIOS actions, ResetBios and ChangePassword may not work.

Addressed a secure boot database synchronizing issue via Redfish API.

Addressed an issue where an error message is displayed with 12-DIMM per CPU and DIMM rank mixing for unsupported DIMM configurations.

Addressed an issue that Battery Failure IML message log may be incorrectly logged for Smart Array Controller with Smart Storage Battery.

Addressed an issue where NS204i may not be identified as an NVMe device.

Addressed an issue when setting "Workload Profile" to 'Custom' and changing "Processor Monitor/Mwait Support" to 'Disabled'. "Processor Monitor/Mwait Support" knob is not seen in the BIOS->Service Options.

Addressed an issue where the driver Health Message was shown twice in POST when drive was removed and ran cold boot.

### **Known Issues:**

None

## **Fixes**

### **Important Notes:**

This version of the System ROM contains updates aligned with the Intel uPLR2 guidance. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.047.0 (2.20\_03\_26\_2024).

### **Firmware Dependencies:**

iLO6 v1.62 is NOT compatible with the Windows and Linux System ROM Smart Flash Components for versions of the System ROM prior to v2.30. The System ROM Smart Flash Components released with System ROM v2.30 will work with iLO6 v1.62. For any systems utilizing iLO6 v1.62 or later, flashing the System ROM to versions prior to v2.30 requires utilizing Fwpkg or ROM binary instead of using the Windows or Linux Smart Flash Components.

### **Problems Fixed:**

Addressed an issue where duplicated and incorrect task status were logged iLO Event Log.

Addressed an issue where multiple KEK instances appeared after the enrollment of KEK certificate from Redfish API.

Addressed an issue where UEFI secure boot dbr signatures were not deleted after deleting all keys via Redfish API.

Addressed an issue where Negotiated Link Width in RBSU showed incorrect information after configuring bifurcation.

Addressed an issue where system may encounter RSOD after enrollment of an improper certificate.

Addressed an issue where the Logical Drive name was cleared in RBSU after leaving the configuration page of MR controllers.

Addressed an issue where Redfish BIOS actions, ResetBios and ChangePassword may not work.

Addressed a secure boot database synchronizing issue via Redfish API.

Addressed an issue where an error message is displayed with 12-DIMM per CPU and DIMM rank mixing for unsupported DIMM configurations.

Addressed an issue that Battery Failure IML message log may be incorrectly logged for Smart Array Controller with Smart Storage Battery.

Addressed an issue where NS204i may not be identified as an NVMe device.

Addressed an issue when setting "Workload Profile" to 'Custom' and changing "Processor Monitor/Mwait Support" to 'Disabled'.

"Processor Monitor/Mwait Support" knob is not seen in the BIOS->Service Options.

Addressed an issue where the driver Health Message was shown twice in POST when drive was removed and ran cold boot.

**Known Issues:**

None

**Enhancements**

Updated some Japanese translation

Added support for 12 DIMM per CPU population mixed rank.

---

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

Version: 1.52\_07-11-2024 **(Optional)**

Filename: U65\_1.52\_07\_11\_2024.fwpkg

**Important Note!**

**Important Notes:**

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.02.04.035.0 (1.50\_04\_10\_2024).

**Deliverable Name:**

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

**Release Version:**

1.52\_07-11-2024

**Last Recommended or Critical Revision:**

1.50\_05-16-2024

**Previous Revision:**

1.50\_05-16-2024

**Firmware Dependencies:**

None

**Enhancements/New Features:**

None

**Problems Fixed:**

Addressed an issue where duplicated and incorrect task status were logged iLO Event Log.

Addressed an issue where multiple KEK instances appeared after enrollment of KEK certificate from Redfish API.

Addressed an issue where dbr were not deleted after deleting all keys via Redfish API.

Addressed an issue where Negotiated Link Width in RBSU showed incorrect information after configuring bifurcation.

Addressed an issue where system may encounter RSOD after enrollment of an improper certificate.

Addressed an issue where the Logical Drive name was cleared in RBSU after leaving configuration page of MR controller.

Addressed an issue that Battery Failure IML message log may be incorrectly logged for MR Controller with Smart Storage Battery.

Addressed an issue where Redfish BIOS actions, ResetBIOS and ChangePassword may not work.

Addressed a secure boot database synchronizing issue via Redfish API.

Addressed an issue where system may encounter a RSOD while updating SAS drive FW via HPE Service Packs, including, but not limited to, VMware ESXi Online HDD FW Component Bundle 16.00, HPE Synergy Service Pack (SSP) 2024.01.02 (January 2024) and the future HPE Synergy Service Pack (SSP) 2024.07.01 (July 2024).

Addressed an issue where updating NVMe-oF initiator name would not take effect.

**Known Issues:**

None

## **Fixes**

### **Important Notes:**

This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.02.04.035.0 (1.50\_04\_10\_2024).

### **Firmware Dependencies:**

None

### **Problems Fixed:**

Addressed an issue where duplicated and incorrect task status were logged iLO Event Log.

Addressed an issue where multiple KEK instances appeared after enrollment of KEK certificate from Redfish API.

Addressed an issue where dbr were not deleted after deleting all keys via Redfish API.

Addressed an issue where Negotiated Link Width in RBSU showed incorrect information after configuring bifurcation.

Addressed an issue where system may encounter RSOD after enrollment of an improper certificate.

Addressed an issue where the Logical Drive name was cleared in RBSU after leaving configuration page of MR controller.

Addressed an issue that Battery Failure IML message log may be incorrectly logged for MR Controller with Smart Storage Battery.

Addressed an issue where Redfish BIOS actions, ResetBIOS and ChangePassword may not work.

Addressed a secure boot database synchronizing issue via Redfish API.

Addressed an issue where system may encounter a RSOD while updating SAS drive FW via HPE Service Packs, including, but not limited to, VMware ESXi Online HDD FW Component Bundle 16.00, HPE Synergy Service Pack (SSP) 2024.01.02 (January 2024) and the future HPE Synergy Service Pack (SSP) 2024.07.01 (July 2024).

Addressed an issue where updating NVMe-oF initiator name would not take effect.

### **Known Issues:**

None

---

ROM Flash Firmware Package - HPE ProLiant DL560 Gen11 (U59) Servers  
Version: 2.30\_08-09-2024 (**Recommended**)  
Filename: U59\_2.30\_08\_09\_2024.fwpkg

## **Important Note!**

### **Important Notes:**

This version of the System ROM contains updates aligned with the Intel uPLR2 guidance. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.047.0 (2.20\_03\_26\_2024).

### **Deliverable Name:**

HPE DL560 Gen11 System ROM - U59

### **Release Version:**

2.30\_08-09-2024

### **Last Recommended or Critical Revision:**

2.30\_08-09-2024

### **Previous Revision:**

2.22\_06-19-2024

### **Firmware Dependencies:**

iLO6 v1.62 is NOT compatible with the Windows and Linux System ROM Smart Flash Components for versions of the System ROM prior to v2.30. The System ROM Smart Flash Components released with System ROM v2.30 will work with iLO6 v1.62. For any systems utilizing iLO6 v1.62 or later, flashing the System ROM to versions prior to v2.30 requires utilizing Fwpkg or ROM binary instead of using the Windows or Linux Smart Flash Components.

### **Enhancements/New Features:**

Updated some Japanese translation

Added support for 12 DIMM per CPU population mixed rank.



**Problems Fixed:**

Addressed an issue where duplicated and incorrect task status were logged iLO Event Log.

Addressed an issue where multiple KEK instances appeared after the enrollment of KEK certificate from Redfish API.

Addressed an issue where UEFI secure boot dbr signatures were not deleted after deleting all keys via Redfish API.

Addressed an issue where Negotiated Link Width in RBSU showed incorrect information after configuring bifurcation.

Addressed an issue where system may encounter RSOD after enrollment of an improper certificate.

Addressed an issue where the Logical Drive name was cleared in RBSU after leaving the configuration page of MR controllers.

Addressed an issue where Redfish BIOS actions, ResetBios and ChangePassword may not work.

Addressed a secure boot database synchronizing issue via Redfish API.

Addressed an issue where an error message is displayed with 12-DIMM per CPU and DIMM rank mixing for unsupported DIMM configurations.

Addressed an issue that Battery Failure IML message log may be incorrectly logged for Smart Array Controller with Smart Storage Battery.

Addressed an issue where NS204i may not be identified as an NVMe device.

Addressed an issue when setting "Workload Profile" to 'Custom' and changing "Processor Monitor/Mwait Support" to 'Disabled'. "Processor Monitor/Mwait Support" knob is not seen in the BIOS->Service Options.

Addressed an issue where the driver Health Message was shown twice in POST when drive was removed and ran cold boot.

**Known Issues:**

None

**Fixes****Important Notes:**

This version of the System ROM contains updates aligned with the Intel uPLR2 guidance. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.047.0 (2.20\_03\_26\_2024).

**Firmware Dependencies:**

iLO6 v1.62 is NOT compatible with the Windows and Linux System ROM Smart Flash Components for versions of the System ROM prior to v2.30. The System ROM Smart Flash Components released with System ROM v2.30 will work with iLO6 v1.62. For any systems utilizing iLO6 v1.62 or later, flashing the System ROM to versions prior to v2.30 requires utilizing Fwpkg or ROM binary instead of using the Windows or Linux Smart Flash Components.

**Problems Fixed:**

Addressed an issue where duplicated and incorrect task status were logged iLO Event Log.

Addressed an issue where multiple KEK instances appeared after the enrollment of KEK certificate from Redfish API.

Addressed an issue where UEFI secure boot dbr signatures were not deleted after deleting all keys via Redfish API.

Addressed an issue where Negotiated Link Width in RBSU showed incorrect information after configuring bifurcation.

Addressed an issue where system may encounter RSOD after enrollment of an improper certificate.

Addressed an issue where the Logical Drive name was cleared in RBSU after leaving the configuration page of MR controllers.

Addressed an issue where Redfish BIOS actions, ResetBios and ChangePassword may not work.

Addressed a secure boot database synchronizing issue via Redfish API.

Addressed an issue where an error message is displayed with 12-DIMM per CPU and DIMM rank mixing for unsupported DIMM configurations.

Addressed an issue that Battery Failure IML message log may be incorrectly logged for Smart Array Controller with Smart Storage Battery.

Addressed an issue where NS204i may not be identified as an NVMe device.

Addressed an issue when setting "Workload Profile" to 'Custom' and changing "Processor Monitor/Mwait Support" to 'Disabled'. "Processor Monitor/Mwait Support" knob is not seen in the BIOS->Service Options.

Addressed an issue where the driver Health Message was shown twice in POST when drive was removed and ran cold boot.

**Known Issues:**

None

## **Enhancements**

Updated some Japanese translation

Added support for 12 DIMM per CPU population mixed rank.

---

ROM Flash Firmware Package - HPE ProLiant ML350/DL360/DL380 Gen11 (U54) Servers

Version: 2.30\_08-09-2024 (**Recommended**)

Filename: U54\_2.30\_08\_09\_2024.fwpkg

## **Important Note!**

### **Important Notes:**

This version of the System ROM contains updates aligned with the Intel uPLR2 guidance. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.047.0 (2.20\_03\_26\_2024).

### **Deliverable Name:**

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

### **Release Version:**

2.30\_08-09-2024

### **Last Recommended or Critical Revision:**

2.30\_08-09-2024

### **Previous Revision:**

2.22\_06-19-2024

### **Firmware Dependencies:**

iLO6 v1.62 is NOT compatible with the Windows and Linux System ROM Smart Flash Components for versions of the System ROM prior to v2.30. The System ROM Smart Flash Components released with System ROM v2.30 will work with iLO6 v1.62. For any systems utilizing iLO6 v1.62 or later, flashing the System ROM to versions prior to v2.30 requires utilizing Fwpkg or ROM binary instead of using the Windows or Linux Smart Flash Components.

### **Enhancements/New Features:**

Updated some Japanese translation

Added support for 12 DIMM per CPU population mixed rank.

### **Problems Fixed:**

Addressed an issue where duplicated and incorrect task status were logged iLO Event Log.

Addressed an issue where multiple KEK instances appeared after the enrollment of KEK certificate from Redfish API.

Addressed an issue where UEFI secure boot dbr signatures were not deleted after deleting all keys via Redfish API.

Addressed an issue where Negotiated Link Width in RBSU showed incorrect information after configuring bifurcation.

Addressed an issue where system may encounter RSOD after enrollment of an improper certificate.

Addressed an issue where the Logical Drive name was cleared in RBSU after leaving the configuration page of MR controllers.

Addressed an issue where Redfish BIOS actions, ResetBios and ChangePassword may not work.

Addressed a secure boot database synchronizing issue via Redfish API.

Addressed an issue where an error message is displayed with 12-DIMM per CPU and DIMM rank mixing for unsupported DIMM configurations.

Addressed an issue that Battery Failure IML message log may be incorrectly logged for Smart Array Controller with Smart Storage Battery.

Addressed an issue where NS204i may not be identified as an NVMe device.

Addressed an issue when setting "Workload Profile" to 'Custom' and changing "Processor Monitor/Mwait Support" to 'Disabled'. "Processor Monitor/Mwait Support" knob is not seen in the BIOS->Service Options.

Addressed an issue where the driver Health Message was shown twice in POST when drive was removed and ran cold boot.

**Known Issues:**

None

**Fixes****Important Notes:**

This version of the System ROM contains updates aligned with the Intel uPLR2 guidance. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.047.0 (2.20\_03\_26\_2024).

**Firmware Dependencies:**

iLO6 v1.62 is NOT compatible with the Windows and Linux System ROM Smart Flash Components for versions of the System ROM prior to v2.30. The System ROM Smart Flash Components released with System ROM v2.30 will work with iLO6 v1.62. For any systems utilizing iLO6 v1.62 or later, flashing the System ROM to versions prior to v2.30 requires utilizing Fwpkg or ROM binary instead of using the Windows or Linux Smart Flash Components.

**Problems Fixed:**

Addressed an issue where duplicated and incorrect task status were logged iLO Event Log.

Addressed an issue where multiple KEK instances appeared after the enrollment of KEK certificate from Redfish API.

Addressed an issue where UEFI secure boot dbr signatures were not deleted after deleting all keys via Redfish API.

Addressed an issue where Negotiated Link Width in RBSU showed incorrect information after configuring bifurcation.

Addressed an issue where system may encounter RSOD after enrollment of an improper certificate.

Addressed an issue where the Logical Drive name was cleared in RBSU after leaving the configuration page of MR controllers.

Addressed an issue where Redfish BIOS actions, ResetBios and ChangePassword may not work.

Addressed a secure boot database synchronizing issue via Redfish API.

Addressed an issue where an error message is displayed with 12-DIMM per CPU and DIMM rank mixing for unsupported DIMM configurations.

Addressed an issue that Battery Failure IML message log may be incorrectly logged for Smart Array Controller with Smart Storage Battery.

Addressed an issue where NS204i may not be identified as an NVMe device.

Addressed an issue when setting "Workload Profile" to 'Custom' and changing "Processor Monitor/Mwait Support" to 'Disabled'. "Processor Monitor/Mwait Support" knob is not seen in the BIOS->Service Options.

Addressed an issue where the driver Health Message was shown twice in POST when drive was removed and ran cold boot.

**Known Issues:**

None

**Enhancements**

Updated some Japanese translation

Added support for 12 DIMM per CPU population mixed rank.

---

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

Version: 1.20\_08-09-2024 **(Recommended)**

Filename: A58\_1.20\_08\_09\_2024.fwpkg

**Important Note!****Important Notes:**

None

**Deliverable Name:**

HPE ProLiant DL145 Gen11 System ROM - A58

**Release Version:**

1.20\_08-09-2024

**Last Recommended or Critical Revision:**

This is the initial version of the firmware.

**Previous Revision:**

This is the initial version of the firmware.

**Firmware Dependencies:**

None

**Enhancements/New Features:**

This is the initial version of the firmware.

**Problems Fixed:**

None

**Known Issues:**

None

**Enhancements**

**Important Notes:**

None

**Firmware Dependencies:**

None

**Enhancements/New Features:**

This is the initial version of the firmware.

**Known Issues:**

None

---

ROM Flash Universal Firmware Package - HPE ProLiant DL325/DL345 Gen11 (A56) Servers  
Version: 2.10\_09-11-2024 (**Recommended**)  
Filename: A56\_2.10\_09\_11\_2024.fwpkg

**Important Note!**

**Important Notes:**

Initial version to support AMD 5th Generation EPYC processors. This revision of the System ROM includes AMD reference code GenoaPI 1.0.0.0 for AMD 5th Generation EPYC processors.

**Deliverable Name:**

HPE ProLiant DL325 Gen11/DL345 Gen11 System ROM - A56

**Release Version:**

2.10\_09-11-2024

**Last Recommended or Critical Revision:**

2.10\_09-11-2024

**Previous Revision:**

1.70\_09-05-2024

**Firmware Dependencies:**

None

**Enhancements/New Features:**

This is the initial version to support AMD 5th Generation EPYC processors.

**Problems Fixed:**

None

**Known Issues:**

None

## **Enhancements**

### **Important Notes:**

Initial version to support AMD 5th Generation EPYC processors. This revision of the System ROM includes AMD reference code GenoAPI 1.0.0.0 for AMD 5th Generation EPYC processors.

### **Firmware Dependencies:**

None

### **Enhancements/New Features:**

This is the initial version to support AMD 5th Generation EPYC processors.

### **Known Issues:**

None

---

## **Driver - Lights-Out Management**

[Top](#)

HPE iLO Native Driver for ESXi 7.0

Version: 10.8.2 (**Recommended**)

Filename: ilo-driver\_700.10.8.2.2-1OEM.700.1.0.15843807\_22942561.zip

### **Fixes**

This product addressed a memory leak in vmkernel.

---

## **Driver - Network**

[Top](#)

HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0

Version: 2024.09.00 (**Recommended**)

Filename: cp062101.compsig; cp062101.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 CPOxxxxx.xml file.
- HPE recommends the *HPE Broadcom NetXtreme-E Firmware Version, 230.1.123000* or later, for use with this driver.

### **Fixes**

This product addresses the problem to enabling NPAR+ SRIOV (more than supported VFs through Driver) causes system failure.

## **Enhancements**

- This product enhances RoCE command size trimming.
- This product enhances driver logging to capture non-supported dual-rate transceiver async errors.

## **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

---

HPE Intel igbn Driver for VMware vSphere 8.0  
Version: 2024.09.00 (**Recommended**)  
Filename: cp062161.compsig; cp062161.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 3.24.0 or later, for use with this driver.

### **Enhancements**

This product added support to new Gen11 servers.

### **Supported Devices and Features**

These drivers support the following network adapters:

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

---

Intel icen Driver for VMware vSphere 8.0  
Version: 2024.09.00 (**Recommended**)  
Filename: cp061668.compsig; cp061668.zip

### **Important Note!**

- This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.
- HPE recommends the firmware provided in *Intel Firmware Package For E810 Ethernet Adapter*, version 4.50 or later, for use with these drivers.

### **Fixes**

This product fixed an issue which NIC port was in autonegotiation mode, many DOWN/UP sequences was applied by the link partner, and NIC port remained in DOWN state randomly.

### **Enhancements**

This product added a warning message when RDMA critical error occurs.

### **Supported Devices and Features**

This product supports the following network adapters:

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

---

### **Driver - Storage Controller**

HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller (64-bit) Driver for vSphere 8.0  
Version: 2023.12.01 (**Recommended**)  
Filename: cp057484.compsig; cp057484.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 and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CPXXXX.xml file.

### **Enhancements**

- New release for version 7.726.02.00.
- This new 7.26 release have not completed vSAN certification, please don't update for vSAN environment for now. Target to complete vSAN certification by end of February 2024.
- Support new HPE ProLiant DL145 Gen11 server.

---

HPE ProLiant Gen10 Smart Array and Gen10 Plus and Gen11 Smart RAID Controller Driver for VMware vSphere 8.0 (Driver Component).  
Version: 2024.10.01 **(Recommended)**  
Filename: cp059502.compsig; cp059502.zip

### **Important Note!**

- This component is intended to be used by HPE applications. It is a zip that contains the same driver deliverable available from the vmware.com, plus an HPE specific CPXXXX.xml file.
- Actual ESXi Version is 80.4672.0.104

### **Fixes**

- Fixed an issue where a PSOD occurred during array delete operations.
- Fixed an issue where failed logical volumes take too long to be removed at the OS level.
- Fixed an issue where NVMe drives were not discovered after hot-plug operation.
- Fixed a potential data loss risk for SmartCache Logical Drives configured in WriteBack mode during shutdown.

---

### **Firmware - Network**

Broadcom Firmware Package for BCM5741x adapters  
Version: 230.1.123.0 **(Recommended)**  
Filename: bcm230.1.123.0.pup.fwpkg

[Top](#)

### **Important Note!**

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

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

- Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 230.0.162.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-230.0.132.0 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2024.09.00 or later

### **Fixes**

- This product addresses an issue where getting Transceiver Temperature erroneous unit value.
- This product addresses an issue when NC-SI Query Pending NC PLDM Response is wrong when NIC does not have a pending PLDM request.
- The product addresses an issue where temperature error messages exceed critical values as seen in the Redfish Device Enablement (RDE) Ports schema when the LinkState is set to Disabled.

### **Enhancements**

- This product enhances the Get Package Status command support.
- This product enhances to add a warning message when a non-supported dual-rate transceiver is used.
- This product enhances the Addition of SFF 8472 Transceiver Power Details to RDE Port Metrics.

### **Supported Devices and Features**

This product supports the following network adapters:

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

---

Broadcom Firmware Package for BCM5750x adapters  
Version: 230.1.123.0 (**Recommended**)  
Filename: bcm230.1.123.0\_Thor.pup.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,

- Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 230.0.162.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-230.0.132.0 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2024.09.00 or later

### **Fixes**

- This product addresses an issue where RDE Port LLDPReceive ManagementAddressMAC returned empty string when it's not present.
- This product addresses an issue where Ethtool shows wrong module type when a port is in a certain breakout mode.
- This product addresses an issue where in low temperature test, BMC reading module temperature result is 0xff.
- This product addresses an issue where failure to set default values for firmware speed capabilities.
- This product enhances support for loopback port statistics via HWRM (Hardware Resource Manager).
- This product addresses an issue where flow control status in dmesg shows wrong TX and RX negotiated status.
- This product addresses an issue where fixed bnxtnvm to verify the VPD data before writing to the NVM.
- This product addresses an issue where ping failures between allmulticast enabled VFs.
- This product addresses where the RoCE protocol's read\_context function in the HWRM (Hardware Resource Manager) component was failing when dealing with the Completion Queue.

### **Enhancements**

- This product enhances the core-dump missing a few entries.
- This product enhances the Hardware CoS queue re-configuration between ifdown/ifup.
- This product enhances to add support for enable/disable RDMA to NCSI command NcsiCmd\_Set\_Partition\_Cfg\_cmd function.
- This product enhances to add support store PLDM Monitoring and Control events before BMC's SetEventReceiver command.
- This product addresses an issue where Tx timeout detected in dmesg while running L2 traffic with 9600 MTU.

### **Supported Devices and Features**

This product supports the following network adapters:

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

---

Broadcom NX1 Online Firmware Upgrade Utility for VMware  
Version: 1.39.0 (**Recommended**)  
Filename: CP062085.compsig; CP062085.zip

### **Important Note!**

This software package contains combo image v20.30.41 with the following firmware versions:

<b>NIC</b>	<b>Boot Code Version</b>	<b>PXE Version</b>	<b>NCSI Version</b>	<b>UEFI Version</b>
BCM 5719 1GbE 4p BASE-T Adptr	1.55	21.6.4	1.5.55	21.6.74
BCM 5719 1GbE 4p BASE-T OCP3 Adptr	1.55	21.6.4	1.5.55	21.6.74
BCM 5719 1GbE 4p BASE-T LOM Adptr	1.55	21.6.4	1.5.55	21.6.74
BCM 5720 1GbE 2p BASE-T LOM Adptr	1.43	21.6.4	1.5.55	21.6.74

### **Prerequisites**

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

### **Fixes**

- This product addresses a problem that might cause a BSOD when trying to reboot the system from operating Windows systems due to NIC internal software mutex problem.



- This product addresses an issue where a random missing DHCP IP address occurs when the iLO shared NIC port is used, due to NIC internal software mutex problem.
- This product addresses an issue that might cause the POST to get stuck due to NIC internal software mutex problem.

### **Supported Devices and Features**

This product supports the following network adapters:

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

---

HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for VMware  
 Version: 226.1.107.0 (**Recommended**)  
 Filename: CP062143.compsig; CP062143.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:

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

### **Prerequisites**

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

### **Fixes**

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

### **Enhancements**

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

### **Supported Devices and Features**

This product supports the following network adapters:

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

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

---

Intel Firmware Package For E810-2CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter  
Version: 4.50 (**Recommended**)  
Filename: HPE\_E810\_2CQDA2\_O\_SEC\_4p50\_PLDMoMCTP\_8001D8B4.fwpkg

### **Important Note!**

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

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

- Intel ica Driver for Microsoft Windows Server, version 1.15.121.0 or later
- Intel ice Drivers for Linux, version 1.14.11-1 or later
- Intel icen Driver for VMware, version 2024.09.00 or later

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

### **Fixes**

- This product addressed an issue where Network Interface initialization failure under OS or Firmware rollback may be seen with LLDP enabled.
- This product addressed an issue where RDE PermanentMACAddress changes simultaneously when send PATCH request for MACAddress property with Firmware 4.30.

### **Enhancements**

This product introduced power restrictions of 4.5 watts per port.

### **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: 4.50 (**Recommended**)  
Filename: HPE\_E810\_CQDA2\_4p50\_PLDMoMCTP\_8001D8B6.fwpkg

### **Important Note!**

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

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

- Intel ica Driver for Microsoft Windows Server, version 1.15.121.0 or later
- Intel ice Drivers for Linux, version 1.14.11-1 or later
- Intel icen Driver for VMware, version 2024.09.00 or later

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

### **Fixes**

- This product addressed an issue where Network Interface initialization failure under OS or Firmware rollback may be seen with LLDP enabled.
- This product addressed an issue where RDE PermanentMACAddress changes simultaneously when send PATCH request for MACAddress property with Firmware 4.30.

### **Enhancements**

This product introduced power restrictions of 4.5 watts per port.

### **Supported Devices and Features**

This product supports the following network adapters:

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

---

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

Version: 4.50 (**Recommended**)

Filename: HPE\_E810\_CQDA2\_OCP\_4p50\_NCSIwPLDMoMCTP\_8001D8BC.fwpkg

### **Important Note!**

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

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

- Intel ica Driver for Microsoft Windows Server, version 1.15.121.0 or later
- Intel ice Drivers for Linux, version 1.14.11-1 or later
- Intel icen Driver for VMware, version 2024.09.00 or later

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

### **Fixes**

- This product addressed an issue where Network Interface initialization failure under OS or Firmware rollback may be seen with LLDP enabled.
- This product addressed an issue where RDE PermanentMACAddress changes simultaneously when send PATCH request for MACAddress property with Firmware 4.30.

### **Enhancements**

This product introduced power restrictions of 4.5 watts per port.

### **Supported Devices and Features**

This product supports the following network adapters:

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

---

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

Version: 4.50 (**Recommended**)

Filename: HPE\_E810\_XXVDA2\_SD\_4p50\_PLDMoMCTP\_8001D8BA.fwpkg

### **Important Note!**

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

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

- Intel ica Driver for Microsoft Windows Server, version 1.15.121.0 or later
- Intel ice Drivers for Linux, version 1.14.11-1 or later
- Intel icen Driver for VMware, version 2024.09.00 or later

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

### **Fixes**

- This product addressed an issue where Network Interface initialization failure under OS or Firmware rollback may be seen with LLDP enabled.
- This product addressed an issue where RDE PermanentMACAddress changes simultaneously when send PATCH request for MACAddress property with Firmware 4.30.

### **Enhancements**

This product introduced power restrictions of 4.5 watts per port.

### **Supported Devices and Features**

This product supports the following network adapters:

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

---

Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter

Version: 4.50 (**Recommended**)

Filename: HPE\_E810\_XXVDA2\_SD\_OCP\_4p50\_NCSIWPLDMoMCTP\_8001D8B3.fwpkg

### **Important Note!**

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

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

- Intel ica Driver for Microsoft Windows Server, version 1.15.121.0 or later
- Intel ice Drivers for Linux, version 1.14.11-1 or later
- Intel icen Driver for VMware, version 2024.09.00 or later

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

### **Fixes**

- This product addressed an issue where Network Interface initialization failure under OS or Firmware rollback may be seen with LLDP enabled.
- This product addressed an issue where RDE PermanentMACAddress changes simultaneously when send PATCH request for MACAddress property with Firmware 4.30.

### **Enhancements**

This product introduced power restrictions of 4.5 watts per port.

### **Supported Devices and Features**

This product supports the following network adapters:

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

---

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

Version: 4.50 (**Recommended**)

Filename: HPE\_E810\_XXVDA4\_FH\_4p50\_PLDMoMCTP\_8001D8B5.fwpkg

### **Important Note!**

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

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

- Intel ica Driver for Microsoft Windows Server, version 1.15.121.0 or later
- Intel ice Drivers for Linux, version 1.14.11-1 or later
- Intel icen Driver for VMware, version 2024.09.00 or later

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

### **Fixes**

- This product addressed an issue where Network Interface initialization failure under OS or Firmware rollback may be seen with LLDP enabled.
- This product addressed an issue where RDE PermanentMACAddress changes simultaneously when send PATCH request for MACAddress property with Firmware 4.30.
- This product addressed an issue where data is interchanged of Port 1 and Port 4 when running a Redfish GET Operation under the NetworkAdapter, NetworkDeviceFunctions and Port Schema with "Metrics" properties.

### **Enhancements**

This product introduced power restrictions of 4.5 watts per port.

## **Supported Devices and Features**

This product supports the following network adapters:

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

---

Intel Firmware Package For E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter  
Version: 4.50 (B) (**Recommended**)  
Filename: HPE\_E810\_XXV4\_OCP\_4p50\_NCSIwPLDMoMCTP\_8001D8B8.fwpkg

### **Important Note!**

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

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

- Intel ica Driver for Microsoft Windows Server, version 1.15.121.0 or later
- Intel ice Drivers for Linux, version 1.14.11-1 or later
- Intel icen Driver for VMware, version 2024.09.00 or later

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

### **Fixes**

- This product addressed an issue where Network Interface initialization failure under OS or Firmware rollback may be seen with LLDP enabled.
- This product addressed an issue where RDE PermanentMACAddress changes simultaneously when send PATCH request for MACAddress property with Firmware 4.30.
- This product addressed an issue where data is interchanged of Port 1 and Port 4 when running a Redfish GET Operation under the NetworkAdapter, NetworkDeviceFunctions and Port Schema with "Metrics" properties.

### **Enhancements**

This product introduced power restrictions of 4.5 watts per port.

## **Supported Devices and Features**

This product supports the following network adapters:

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

---

Intel Online Firmware Upgrade Utility for VMware  
Version: 3.24.0 (**Recommended**)  
Filename: CP061688.compsig; CP061688.zip

### **Important Note!**

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

<b>NIC</b>	<b>EEPROM/NVM Version</b>	<b>OROM Version</b>	<b>NVM Version</b>
HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter	8000F134	1.3602.0	9.50
HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter	8000F13D	1.3602.0	9.50
Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter	800011F8	1.3602.0	N/A
Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter	80001234	1.3602.0	N/A
Intel(R) I350 Gigabit Network Connection (2-port)	8000119C	1.3602.0	N/A
Intel(R) I350 Gigabit Network Connection (4-port)	8000119D	1.3602.0	N/A

The combo image v1.3602.0 includes: Boot Agent: 1GbE - v1.5.90, 10GbE - v2.4.54, 40GbE - v1.1.45 & UEFI Drivers: 1GbE - v9.8.52, 10GbE - v8.2.46, 40GbE - v5.0.04

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

or OROM version.

## **Prerequisites**

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

## **Enhancements**

This product enhanced the compatibility with the latest drivers.

## **Supported Devices and Features**

This package supports the following network adapters:

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

---

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

Version: 26.41.1000 (**Recommended**)

Filename: 26\_41\_1000-MCX631102AS-ADA\_Ax.pldm.fwpkg

## **Important Note!**

**Disclaimer:** Certain software including drivers and documents may be available from NVIDIA. If you select a URL that directs you to <http://www.nvidia.com/>, you are then leaving HPE.com. Please follow the instructions on <http://www.nvidia.com/> to download NVIDIA software or documentation. When downloading the NVIDIA software or documentation, you may be subject to NVIDIA terms and conditions, including licensing terms, if any, provided on its website or otherwise. HPE is not responsible for your use of any software or documents that you download from <http://www.nvidia.com/>, except that HPE may provide a limited warranty for NVIDIA software in accordance with the terms and conditions of your purchase of the HPE product or solution.

A list of known issues with this release is available

at: <https://docs.nvidia.com/networking/display/connectx6lxfirmwarev26411000/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 26.41.1000:**

- Traffic failure occurred when modifying the VIRTIO\_NET\_F\_MRG\_RXBUF bit for the VDPA device during traffic.
- The second mkey index returned even if it was not set in the creation of the virtio q when querying virtio q object.
- Traffic loss occurred after performing Live Migration with virtio vq "frozen-ready" feature.

Note: When the traffic load is high, and the vq frozen-ready cap is on, traffic loss might still be experienced after modifying the vq from suspend to ready mode.

## **Enhancements**

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

**New features and changes included in version 26.41.1000:**

- Implemented Deterministic Random Bit Generator (DRBG) algorithm on top of firmware TRNG (the source for raw data input) in accordance with NIST SP800-90A.
- Added support for vDPA virtual queue state change from suspend to ready, and discrete mkey for descriptor. vDPA Live Migration uses these two new capabilities to reduce downtime since vq can go back to ready state for traffic and descriptor-only-mkey can help reduce mkey mapping time.
- Added a new NVConfig option to copy AR bit from the BTH header to the DHCP header.
- Added the option to provide field's offset and length in Steering add\_action option.
- Added support for steering match on packet I4\_type through FTG/FTE.

- Extended Flex Parser merge mechanism to support hardware capabilities.
- Enabled the option to disable the native parser when the parse graph node is configured with the same conditions.
- Added support for father/son headers parsing.
- Added support for tunnel\_offload in LRO.

## 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

Mellanox Firmware Package (FWPKG) - Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE  
 Version: 26.41.1000 (**Recommended**)  
 Filename: 26\_41\_1000-MCX631432AS-ADA\_Ax.pldm.fwpkg

## Important Note!

**Disclaimer:** Certain software including drivers and documents may be available from NVIDIA. If you select a URL that directs you to <http://www.nvidia.com/>, you are then leaving HPE.com. Please follow the instructions on <http://www.nvidia.com/> to download NVIDIA software or documentation. When downloading the NVIDIA software or documentation, you may be subject to NVIDIA terms and conditions, including licensing terms, if any, provided on its website or otherwise. HPE is not responsible for your use of any software or documents that you download from <http://www.nvidia.com/>, except that HPE may provide a limited warranty for NVIDIA software in accordance with the terms and conditions of your purchase of the HPE product or solution.

A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6lxfirmwarev26411000/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 26.41.1000:

- Traffic failure occurred when modifying the VIRTIO\_NET\_F\_MRG\_RXBUF bit for the VDPA device during traffic.
- The second mkey index returned even if it was not set in the creation of the virtio q when querying virtio q object.
- Traffic loss occurred after performing Live Migration with virtio vq "frozen-ready" feature.

Note: When the traffic load is high, and the vq frozen-ready cap is on, traffic loss might still be experienced after modifying the vq from suspend to ready mode.

## Enhancements

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

### New features and changes included in version 26.41.1000:

- Implemented Deterministic Random Bit Generator (DRBG) algorithm on top of firmware TRNG (the source for raw data input) in accordance with NIST SP800-90A.
- Added support for vDPA virtual queue state change from suspend to ready, and discrete mkey for descriptor. vDPA Live Migration uses these two new capabilities to reduce downtime since vq can go back to ready state for traffic and descriptor-only-mkey can help reduce mkey mapping time.
- Added a new NVConfig option to copy AR bit from the BTH header to the DHCP header.
- Added the option to provide field's offset and length in Steering add\_action option.
- Added support for steering match on packet I4\_type through FTG/FTE.
- Extended Flex Parser merge mechanism to support hardware capabilities.
- Enabled the option to disable the native parser when the parse graph node is configured with the same conditions.
- Added support for father/son headers parsing.
- Added support for tunnel\_offload in LRO.

## Supported Devices and Features

HPE Part Number	Mellanox Ethernet Only Adapters	PSID
-----------------	---------------------------------	------

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: 16.35.4030 (**Recommended**)  
Filename: 16\_35\_4030-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.

**Disclaimer:** Certain software including drivers and documents may be available from NVIDIA. If you select a URL that directs you to <http://www.nvidia.com/>, you are then leaving HPE.com. Please follow the instructions on <http://www.nvidia.com/> to download NVIDIA software or documentation. When downloading the NVIDIA software or documentation, you may be subject to NVIDIA terms and conditions, including licensing terms, if any, provided on its website or otherwise. HPE is not responsible for your use of any software or documents that you download from <http://www.nvidia.com/>, except that HPE may provide a limited warranty for NVIDIA software in accordance with the terms and conditions of your purchase of the HPE product or solution.

A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx5firmwarev16354030ts/known+issues>

### **Prerequisites**

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

### **Fixes**

#### **The following issues have been fixed in version 16.35.4030:**

- VF FLR would get stuck when its PF triggered the FLR as well.
- Unexpected source UDP port appeared in RoCE packets when the firmware ignored a non-PF driver configuration for RoCE source UDP port control (as set in SET\_HCA\_CAP.sw\_r\_roce\_src\_udp\_port).

### **Enhancements**

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

#### **New features and changes included in version 16.35.4030:**

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

### **Supported Devices and Features**

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)	16.35.4030	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: 20.41.1000 (**Recommended**)  
Filename: 20\_41\_1000-MCX653105A-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.
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.

**Disclaimer:** Certain software including drivers and documents may be available from NVIDIA. If you select a URL that directs you to <http://www.nvidia.com/>, you are then leaving HPE.com. Please follow the instructions on <http://www.nvidia.com/> to download NVIDIA software or documentation. When downloading the NVIDIA software or documentation, you may be subject to NVIDIA terms and conditions, including licensing terms, if any, provided on its website or otherwise. HPE is not responsible for your use of any software or documents that you download from <http://www.nvidia.com/>, except that HPE may provide a limited warranty for NVIDIA software in accordance with the terms and conditions of your purchase of the HPE product or solution.

A list of known issues with this release is available

at: <https://docs.nvidia.com/networking/display/connectx6firmwarev20411000/known+issues>

### **Prerequisites**

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

### **Fixes**

**No fixes are included in version 20.41.1000.**

### **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 20.41.1000:**

- Added support for steering match on packet I4\_type through FTG/FTE.

### **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)	20.41.1000	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: 20.41.1000 (**Recommended**)

Filename: 20\_41\_1000-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.
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.

**Disclaimer:** Certain software including drivers and documents may be available from NVIDIA. If you select a URL that directs you to <http://www.nvidia.com/>, you are then leaving HPE.com. Please follow the instructions on <http://www.nvidia.com/> to download NVIDIA software or documentation. When downloading the NVIDIA software or documentation, you may be subject to NVIDIA terms

and conditions, including licensing terms, if any, provided on its website or otherwise. HPE is not responsible for your use of any software or documents that you download from <http://www.nvidia.com/>, except that HPE may provide a limited warranty for NVIDIA software in accordance with the terms and conditions of your purchase of the HPE product or solution.

A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6firmwarev20411000/known+issues>

### Prerequisites

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

### Fixes

**No fixes are included in version 20.41.1000.**

### 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 20.41.1000:

- Added support for steering match on packet I4\_type through FTG/FTE.

### Supported Devices and Features

This software package contains the following firmware versions:

Mellanox InfiniBand Adapter	Firmware Version	PSID
HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 OCP3 MCX653435A-HDAI Adapter (P31323-B21 and P31323-H21)	20.41.1000	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: 20.41.1000 (**Recommended**)  
Filename: 20\_41\_1000-MCX653106A-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:

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

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

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

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

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

<b>HDR / HDR100</b>	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

**Disclaimer:** Certain software including drivers and documents may be available from NVIDIA. If you select a URL that directs you to <http://www.nvidia.com/>, you are then leaving HPE.com. Please follow the instructions on <http://www.nvidia.com/> to download NVIDIA software or documentation. When downloading the NVIDIA software or documentation, you may be subject to NVIDIA terms and conditions, including licensing terms, if any, provided on its website or otherwise. HPE is not responsible for your use of any software or documents that you download from <http://www.nvidia.com/>, except that HPE may provide a limited warranty for NVIDIA software in accordance with the terms and conditions of your purchase of the HPE product or solution.

A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6firmwarev20411000/known+issues>

### **Prerequisites**

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

### **Fixes**

**No fixes are included in version 20.41.1000.**

### **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 20.41.1000:**

- Added support for steering match on packet I4\_type through FTG/FTE.

### **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 2-port QSFP56 PCIe4 x16 MCX653106A-HDAT Adapter(P31324-B21 and P31324-H21)	20.41.1000	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: 20.41.1000 **(Recommended)**  
Filename: 20\_41\_1000-MCX653436A-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.
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.**

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

<b>Port #2 - Ethernet</b>				
<b>Port #1 - InfiniBand</b>	<b>200GbE/50GbE</b>	<b>100GbE/25GbE</b>	<b>40GbE/10GbE</b>	<b>1GbE</b>
<b>HDR / HDR100</b>	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

**Disclaimer:** Certain software including drivers and documents may be available from NVIDIA. If you select a URL that directs you to <http://www.nvidia.com/>, you are then leaving HPE.com. Please follow the instructions on <http://www.nvidia.com/> to download NVIDIA software or documentation. When downloading the NVIDIA software or documentation, you may be subject to NVIDIA terms and conditions, including licensing terms, if any, provided on its website or otherwise. HPE is not responsible for your use of any software or documents that you download from <http://www.nvidia.com/>, except that HPE may provide a limited warranty for NVIDIA software in accordance with the terms and conditions of your purchase of the HPE product or solution.

A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6firmwarev20411000/known+issues>

**Prerequisites**

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

**Fixes**

**No fixes are included in version 20.41.1000.**

**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 20.41.1000:**

- Added support for steering match on packet I4\_type through FTG/FTE.

**Supported Devices and Features**

This software package contains the following firmware versions:

<b>Mellanox InfiniBand Adapter</b>	<b>Firmware</b>	<b>PSID</b>
------------------------------------	-----------------	-------------

	Version	
HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 OCP3 MCX653436A-HDAI Adapter (P31348-B21 and P31348-H21)	20.41.1000	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: 20.41.1000 **(Recommended)**  
Filename: 20\_41\_1000-MCX653105A-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.

**Disclaimer:** Certain software including drivers and documents may be available from NVIDIA. If you select a URL that directs you to <http://www.nvidia.com/>, you are then leaving HPE.com. Please follow the instructions on <http://www.nvidia.com/> to download NVIDIA software or documentation. When downloading the NVIDIA software or documentation, you may be subject to NVIDIA terms and conditions, including licensing terms, if any, provided on its website or otherwise. HPE is not responsible for your use of any software or documents that you download from <http://www.nvidia.com/>, except that HPE may provide a limited warranty for NVIDIA software in accordance with the terms and conditions of your purchase of the HPE product or solution.

A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6firmwarev20411000/known+issues>

**Prerequisites**

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

**Fixes**

**No fixes are included in version 20.41.1000.**

**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 20.41.1000:**

- o Added support for steering match on packet I4\_type through FTG/FTE.

**Supported Devices and Features**

This software package contains the following firmware versions:

Mellanox InifiniBand Adapter	Firmware Version	PSID
HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe4 x16 MCX653105A-ECAT Adapter (P23665-B21 and P23665-H21)	20.41.1000	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: 20.41.1000 **(Recommended)**  
Filename: 20\_41\_1000-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
EDR	supported	supported	not supported	supported
FDR	not supported	not supported	not supported	not supported
QDR/SDR	supported	supported	not supported	supported

**Disclaimer:** Certain software including drivers and documents may be available from NVIDIA. If you select a URL that directs you to <http://www.nvidia.com/>, you are then leaving HPE.com. Please follow the instructions on <http://www.nvidia.com/> to download NVIDIA software or documentation. When downloading the NVIDIA software or documentation, you may be subject to NVIDIA terms and conditions, including licensing terms, if any, provided on its website or otherwise. HPE is not responsible for your use of any software or documents that you download from <http://www.nvidia.com/>, except that HPE may provide a limited warranty for NVIDIA software in accordance with the terms and conditions of your purchase of the HPE product or solution.

A list of known issues with this release is available

at: <https://docs.nvidia.com/networking/display/connectx6firmwarev20411000/known+issues>

### **Prerequisites**

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

### **Fixes**

**No fixes are included in version 20.41.1000.**

### **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 20.41.1000:**

- Added support for steering match on packet I4\_type through FTG/FTE.

## Supported Devices and Features

This software package contains the following firmware versions:

Mellanox InfiniBand Adapter	Firmware Version	PSID
HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe4 x16 MCX653106A-ECAT Adapter (P23666-B21 and P23666-H21)	20.41.1000	MT_0000000453

Mellanox Firmware Package (FWPKG) for Mellanox MCX623105AS-VDAT Ethernet 200Gb 1-port QSFP56 Adapter for HPE  
Version: 22.41.1000 (**Recommended**)  
Filename: 22\_41\_1000-MCX623105AS-VDA\_Ax.pldm.fwpkg

### Important Note!

**Disclaimer:** Certain software including drivers and documents may be available from NVIDIA. If you select a URL that directs you to <http://www.nvidia.com/>, you are then leaving HPE.com. Please follow the instructions on <http://www.nvidia.com/> to download NVIDIA software or documentation. When downloading the NVIDIA software or documentation, you may be subject to NVIDIA terms and conditions, including licensing terms, if any, provided on its website or otherwise. HPE is not responsible for your use of any software or documents that you download from <http://www.nvidia.com/>, except that HPE may provide a limited warranty for NVIDIA software in accordance with the terms and conditions of your purchase of the HPE product or solution.

A list of known issues with this release is available

at: <https://docs.nvidia.com/networking/display/connectx6dxfirmwarev22411000/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 22.41.1000:

- GTP length field was automatically modified at the TX side when an incorrect or invalid length was detected.
- Switch port would go down due to MC packets mirrored back to the switch when in promiscuous mode.
- Traffic failure occurred when modifying the VIRTIO\_NET\_F\_MRG\_RXBUF bit for the VDPA device during traffic.
- The second mkey index returned even if it was not set in the creation of the virtio q when querying virtio q object.
- Traffic loss occurred after performing Live Migration with virtio vq "frozen-ready" feature.

Note: When the traffic load is high, and the vq frozen-ready cap is on, traffic loss might still be experienced after modifying the vq from suspend to ready mode.

### Enhancements

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

#### New features and changes included in version 22.41.1000:

- The new unified\_fdb subdomain simplifies the FDB model by eliminating the need to duplicate rules for RX and TX tables. This domain is directionless, meaning no RX/TX specific actions are allowed. Firmware now handles packet transitions IN and OUT of the unified domain, allowing for a more streamlined packet flow management. Software can now transition between unified\_fdb and FDB\_RX/FDB\_TX domains as long as the packet maintains the same direction, without the risk of dropping the packet when crossing between RX and TX.
- Implemented Deterministic Random Bit Generator (DRBG) algorithm on top of firmware TRNG (the source for raw data input) in accordance with NIST SP800-90A.
- Added support for vDPA virtual queue state change from suspend to ready, and discrete mkey for descriptor. vDPA Live Migration uses these two new capabilities to reduce downtime since vq can go back to ready state for traffic and descriptor-only-mkey can help reduce mkey mapping time.
- Added the ability to generate up to 2<sup>30</sup> STE objects through the general object creation command.
- Added a new NVConfig option to copy AR bit from the BTH header to the DHCP header.
- Added the option to provide field's offset and length in Steering add\_action option.
- Added support for steering match on packet I4\_type through FTG/FTE.
- Extended Flex Parser merge mechanism to support hardware capabilities.

Enabled the option to disable the native parser when the parse graph node is configured with the same conditions.

- Added support for father/son headers parsing.
- Added support for tunnel\_offload in LRO.

## Supported Devices and Features

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

---

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

Version: 22.41.1000 (**Recommended**)

Filename: 22\_41\_1000-MCX623106AS-CDA\_Ax.pldm.fwpkg

### Important Note!

**Disclaimer:** Certain software including drivers and documents may be available from NVIDIA. If you select a URL that directs you to <http://www.nvidia.com/>, you are then leaving HPE.com. Please follow the instructions on <http://www.nvidia.com/> to download NVIDIA software or documentation. When downloading the NVIDIA software or documentation, you may be subject to NVIDIA terms and conditions, including licensing terms, if any, provided on its website or otherwise. HPE is not responsible for your use of any software or documents that you download from <http://www.nvidia.com/>, except that HPE may provide a limited warranty for NVIDIA software in accordance with the terms and conditions of your purchase of the HPE product or solution.

A list of known issues with this release is available

at: <https://docs.nvidia.com/networking/display/connectx6dxfirmwarev22411000/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 22.41.1000:

- GTP length field was automatically modified at the TX side when an incorrect or invalid length was detected.
- Switch port would go down due to MC packets mirrored back to the switch when in promiscuous mode.
- Traffic failure occurred when modifying the VIRTIO\_NET\_F\_MRG\_RXBUF bit for the VDPA device during traffic.
- The second mkey index returned even if it was not set in the creation of the virtio q when querying virtio q object.
- Traffic loss occurred after performing Live Migration with virtio vq "frozen-ready" feature.

Note: When the traffic load is high, and the vq frozen-ready cap is on, traffic loss might still be experienced after modifying the vq from suspend to ready mode.

### Enhancements

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

#### New features and changes included in version 22.41.1000:

- The new unified\_fdb subdomain simplifies the FDB model by eliminating the need to duplicate rules for RX and TX tables. This domain is directionless, meaning no RX/TX specific actions are allowed. Firmware now handles packet transitions IN and OUT of the unified domain, allowing for a more streamlined packet flow management. Software can now transition between unified\_fdb and FDB\_RX/FDB\_TX domains as long as the packet maintains the same direction, without the risk of dropping the packet when crossing between RX and TX.
- Implemented Deterministic Random Bit Generator (DRBG) algorithm on top of firmware TRNG (the source for raw data input) in accordance with NIST SP800-90A.
- Added support for vDPA virtual queue state change from suspend to ready, and discrete mkey for descriptor. vDPA Live Migration uses these two new capabilities to reduce downtime since vq can go back to ready state for traffic and descriptor-only-mkey can help reduce mkey mapping time.
- Added the ability to generate up to 2<sup>30</sup> STE objects through the general object creation command.
- Added a new NVConfig option to copy AR bit from the BTH header to the DHCP header.
- Added the option to provide field's offset and length in Steering add\_action option.
- Added support for steering match on packet I4\_type through FTG/FTE.



- Extended Flex Parser merge mechanism to support hardware capabilities.
- Enabled the option to disable the native parser when the parse graph node is configured with the same conditions.
- Added support for father/son headers parsing.
- Added support for tunnel\_offload in LRO.

## 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

[Top](#)

Controller Firmware Flash for ESXi7.0 and 8.0 - HPE MR216i-o Gen11 Tri Mode Controller

Version: 52.26.3.5487 (**Recommended**)

Filename: CP060621.compsig; CP060621.zip

#### Fixes

- Fix an issue that PLDM firmware update may fail. The issue may happen on controller, backplane and drive attached to controller.

---

Controller Firmware Flash for ESXi7.0 and 8.0 - HPE MR216i-p Gen11 Tri Mode Controller

Version: 52.26.3.5487 (**Recommended**)

Filename: CP060622.compsig; CP060622.zip

#### Fixes

- Fix an issue that PLDM firmware update may fail. The issue may happen on controller, backplane and drive attached to controller.

---

Controller Firmware Flash for ESXi7.0 and 8.0 - HPE MR408i-o Gen11 Tri Mode Controller

Version: 52.26.3.5487 (**Recommended**)

Filename: CP060623.compsig; CP060623.zip

#### Fixes

- Fix an issue that PLDM firmware update may fail. The issue may happen on controller, backplane and drive attached to controller.

---

Controller Firmware Flash for ESXi7.0 and 8.0 - HPE MR416i-o Gen11 Tri Mode Controller

Version: 52.26.3.5487 (**Recommended**)

Filename: CP060620.compsig; CP060620.zip

#### Fixes

- Fix an issue that PLDM firmware update may fail. The issue may happen on controller, backplane and drive attached to controller.

---

Controller Firmware Flash for ESXi7.0 and 8.0 - HPE MR416i-p Gen11 Tri Mode Controller

Version: 52.26.3.5487 (**Recommended**)

Filename: CP060619.compsig; CP060619.zip

#### Fixes

- Fix an issue that PLDM firmware update may fail. The issue may happen on controller, backplane and drive attached to controller.

---

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

Version: 1.59 (**Recommended**)

Filename: HPE\_Alletra4140\_BP\_EXP\_Gen11\_1.59\_A.fwpkg

## **Important Note!**

1.24 is a initial version.

## **Fixes**

- Fixed an issue that the health LED lights may turn on after hot plugging SATA drives

## **Enhancements**

- Support firmware update for the UBM attached to the expander

---

Firmware Package - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P204i-c, P416ie-m and P816i-a SR Gen10 and SR308i-o,SR308i-p Gen11 controllers

Version: 7.11 (**Recommended**)

Filename: HPE\_SR\_Gen10\_7.11\_A.fwpkg

## **Fixes**

- Fixed an issue where the host experienced BSOD while clearing the controller configuration.
- Fixed controller lockups caused by incorrect address reads and partial RAM initialization for PCIe functions, leading to ECC errors.
- Fixed issues with external storage.
- Fixed issues with the SATA drive.
- Fixed issues with the SED drive.
- Fixed issues with the spare drive.
- Corrected MCTP-related issues.
- Fixed surface scan issues on the RAID 50.
- Fixed issues encountered during heavy I/O operations.
- Fixed volume issues on the failed drive.
- Fixed issues for incorrect Severity reported in Redfish events.
- Fixed issues for incorrect Status reported in Redfish resources.
- Fixed an issue with improper capacity information in Redfish drive Name.
- Fixed an issue where Redfish long running task status is not reported.
- Fixed an issue where DurableNameFormat for RAID volumes are reported as UUID in RDE READ operations, but should be NAA.
- Fixed an issue where failed to take ownership of, or to revert, a SED through Redfish.
- Fixed an issue when a drive hosting a RAID 0 Volume is removed and reinserted, a VolumeOK event is not generated.

## **Enhancements**

- Added support for saving Managed SED master key and reset key in cipher text in controller NVRAM instead of clear text.
- Changed temperature polling period from 1 minute to 5 minutes for HBA mode drives that are in low power state.
- Added support for clearing UREs in unmapped LBA range of fault tolerant logical drives.
- Improved random write and mixed read-write performance.
- Added support for SED encryption configuration through Redfish interface.
- Added support of Redfish Chassis implementation for UBM Backplanes.
- Added Redfish ACTION:
  - Storage.SetEncryptionKey
- Added support for Redfish property PATCH:
  - Storage.EncryptionMode
  - Storage.HotspareActivationPolicy
  - Drive.HostspareReplacementMode
  - Drive.HotspareType
  - Volume.Encrypted
- Added support for Redfish Status.Conditions property to resources:
  - Drive
  - Port
  - StorageController
  - StorageController.CacheSummary
  - Volume
- Added support for Redfish properties:
  - Drive.DriveFormFactor
  - Drive.FirmwareVersion
  - Drive.Manufacture (SAS only)
  - Drive.SlotCapableProtocols
  - StorageController.AssetId
  - StorageController.Links.PCIeFunction
  - Volume.BlockSizeBytes
  - Volume.LogicalUnitNumber
- Added support for PLDM Type5 UBM PIC firmware flashing behind expander.

---

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

Version: 1.2.14.1013 **(Recommended)**

Filename: HPE\_NS204i\_Gen10P\_Gen11\_1.2.14.1013\_A.fwpkg

### **Important Note!**

Current firmware has to be 1.0.14.1063 or later in order to enable PLDM firmware update functionality for the controller. Please find the smart component versions of 1.0.14.1063 in below link:

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

### **Prerequisites**

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

### **Fixes**

- Fixed an issue that iLO reports NS204i PLDM firmware update failure, but the firmware update is actually successful and will be activated in next reboot
- Fixed an issue that the M.2 attached are listed in iLO Device Inventory
- Corrected the drive state of performing Storage.ResetToDefaults with ResetAll type
- Allowed empty JSON payload for SecureErase and corrected the returned status when the previous one is either in process or completed.

### **Enhancements**

- Add @Redfish.AllowableValues, @Redfish.AllowablePattern, @Redfish.AllowableNumbers and @Redfish.WritableProperties for Redfish Annotations
- Add StorageController.Links, Drive.SlotCapableProtocols and Storage.AutoVolumeCreate for Redfish GET
- Add StorageController.ControllerRates and Volume.DisplayName for Redfish PATCH

---

Firmware Package - HPE MR216i-o Gen11 Tri Mode Controller

Version: 52.26.3-5487 **(Recommended)**

Filename: HPE\_MR216i-o\_Gen11\_52.26.3-5487\_A.fwpkg

### **Important Note!**

- **This firmware version to be used on HPE MR216i-o Gen11 Controller.**

### **Prerequisites**

iLO6 version should be at least 1.53 is required for **chassis&Fabric support**.

### **Fixes**

- Fix an issue that PLDM firmware update may fail. The issue may happen on controller, backplane and drive attached to controller.

---

Firmware Package - HPE MR216i-p Gen11 Tri Mode Controller

Version: 52.26.3-5487 **(Recommended)**

Filename: HPE\_MR216i-p\_Gen11\_52.26.3-5487\_A.fwpkg

### **Important Note!**

- **This firmware version to be used on HPE MR216i-p Gen11 Controller.**

### **Prerequisites**

iLO6 version should be at least 1.53 is required for **chassis&Fabric support**.

### **Fixes**

- Fix an issue that PLDM firmware update may fail. The issue may happen on controller, backplane and drive attached to controller.

---

Firmware Package - HPE MR408i-o Gen11 Tri Mode Controller

Version: 52.26.3-5487 (**Recommended**)

Filename: HPE\_MR408i-o\_Gen11\_52.26.3-5487\_A.fwpkg

### **Important Note!**

- **This firmware version to be used on HPE MR408i-o Gen11 Controller.**

### **Prerequisites**

iLO6 version should be at least 1.53 is required for **chassis&Fabric support**.

### **Fixes**

- Fix an issue that PLDM firmware update may fail. The issue may happen on controller, backplane and drive attached to controller.

---

Firmware Package - HPE MR416i-o Gen11 Tri Mode Controller

Version: 52.26.3-5487 (**Recommended**)

Filename: HPE\_MR416i-o\_Gen11\_52.26.3-5487\_A.fwpkg

### **Important Note!**

- **This firmware version to be used on HPE MR416i-o Gen11 Controller.**

### **Prerequisites**

iLO6 version should be at least 1.53 is required for **chassis&Fabric support**.

### **Fixes**

- Fix an issue that PLDM firmware update may fail. The issue may happen on controller, backplane and drive attached to controller.

---

Firmware Package - HPE MR416i-p Gen11 Tri Mode Controller

Version: 52.26.3-5487 (**Recommended**)

Filename: HPE\_MR416i-p\_Gen11\_52.26.3-5487\_A.fwpkg

### **Important Note!**

- **This firmware version to be used on HPE MR416i-p Gen11 Controller.**

### **Prerequisites**

iLO6 version should be at least 1.53 is required for **chassis&Fabric support**.

### **Fixes**

- Fix an issue that PLDM firmware update may fail. The issue may happen on controller, backplane and drive attached to controller.

---

Firmware Package - HPE SR932i-p Gen10 Plus /SR416i-a Gen10 Plus/SR932i-p Gen11/SR416ie-m Gen11 Controllers

## **Fixes**

- Fixed an issue where the host experienced BSOD while clearing the controller configuration.
- Fixed controller lockups caused by incorrect address reads and partial RAM initialization for PCIe functions, leading to ECC errors.
- Fixed an issue where a possible controller lockup was observed after a factory reset.
- Fixed issues with external storage.
- Fixed issues with the SATA drive.
- Fixed issues with the SED drive.
- Fixed issues with the spare drive.
- Corrected MCTP-related issues.
- Fixed SPDM-related issues.
- Fixed issues related to volume creation and rebuilding.
- Fixed volume issues on the failed drive.
- Fixed surface scan issues on the RAID 50.
- Fixed issues encountered during heavy I/O operations.
- Fixed issues for incorrect Severity reported in Redfish events.
- Fixed issues for incorrect Status reported in Redfish resources.
- Fixed an issue with improper capacity information in Redfish drive Name.
- Fixed an issue where Redfish long running task status is not reported.
- Fixed an issue where DurableNameFormat for RAID volumes are reported as UUID in RDE READ operations, but should be NAA.
- Fixed an issue where failed to take ownership of, or to revert, a SED through Redfish.
- Fixed an issue when a drive hosting a RAID 0 Volume is removed and reinserted, a VolumeOK event is not generated.

## **Enhancements**

- Added support for saving Managed SED master key and reset key in cipher text in controller NVRAM instead of clear text.
- Changed temperature polling period from 1 minute to 5 minutes for HBA mode drives that are in low power state.
- Added support for clearing UREs in unmapped LBA range of fault tolerant logical drives.
- Improved RAID 1/10 write sequential performance.
- Added support for SED encryption configuration through Redfish interface.
- Added support of Redfish Chassis implementation for UBM Backplanes.
- Added Redfish ACTION:
  - Storage.SetEncryptionKey
- Added support for Redfish property PATCH:
  - Storage.EncryptionMode
  - Storage.HotspareActivationPolicy
  - Drive.HostspareReplacementMode
  - Drive.HotspareType
  - Volume.Encrypted
- Added support for Redfish Status.Conditions property to resources:
  - Drive
  - Port
  - StorageController
  - StorageController.CacheSummary
  - Volume
- Added support for Redfish properties:
  - Drive.DriveFormFactor
  - Drive.FirmwareVersion
  - Drive.Manufacture (SAS only)
  - Drive.SlotCapableProtocols
  - StorageController.AssetId
  - StorageController.Links.PCIeFunction
  - Volume.BlockSizeBytes
  - Volume.LogicalUnitNumber
- Added support for PLDM Type5 UBM PIC firmware flashing behind expander.

## **Important Note!**

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

## **Prerequisites**

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

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

## **Fixes**

### **The following fixes were incorporated in this version:**

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

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

## **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 :

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

---

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

## **Important Note!**

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

## **Prerequisites**

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

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

## **Fixes**

### **The following fixes were incorporated in this version:**

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

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

## **Supported Devices and Features**

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

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

---

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

## Enhancements

Support Gen10, Gen10 Plus and Gen11 servers

---

## Firmware - Storage Fibre Channel

[Top](#)

HPE Firmware Flash for Emulex 32Gb and 64Gb Fibre Channel Host Bus Adapters

Version: 14.4.329.10 **(Recommended)**

Filename: P14.4.329.10\_header.pldm.fwpkg

### Important Note!

This component is supported only on Gen11 ProLiant servers.

### Release notes:

[Broadcom Release notes](#)

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.4.329.10	14.4.329.10	14.4.329.9	14.4.290.0
HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.4.329.10	14.4.329.10	14.4.329.9	14.4.290.0
HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.4.329.10	14.4.329.10	14.4.329.9	14.4.290.0
HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.4.329.10	14.4.329.10	14.4.329.9	14.4.290.0

## Prerequisites

The minimum version for adapter to support PLDM is 14.0.499.25

## Enhancements

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.4.329.10	14.4.329.10	14.4.329.9	14.4.290.0
HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.4.329.10	14.4.329.10	14.4.329.9	14.4.290.0
HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.4.329.10	14.4.329.10	14.4.329.9	14.4.290.0
HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.4.329.10	14.4.329.10	14.4.329.9	14.4.290.0

## Supported Devices and Features

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

### 32Gb Fibre Channel Host Bus Adapter:

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

### 64Gb Fibre Channel Host Bus Adapter:

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

**Important Note!**

Release Notes:

[HPE QLogic Adapters Release Notes](#)

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.10.00	09.15.00	7.36	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.10.00	09.15.00	7.36	0.0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.10.00	09.15.00	7.36	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.10.00	09.15.00	7.36	0.0

**Enhancements**

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.10.00	09.15.00	7.36	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.10.00	09.15.00	7.36	0.0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.10.00	09.15.00	7.36	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.10.00	09.15.00	7.36	0.0

**Supported Devices and Features**

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

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

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

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

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

**Software - Management**

[Top](#)

HPE Fiber Channel and Storage Enablement Bundle Smart Component for ESXi 8.0

Version: 2024.09.01 **(Recommended)**

Filename: cp062083.compsig; cp062083.zip

**Enhancements**

This product carries SBOM signatures.

HPE iLO Driver Bundle Smart Component for ESXi 7.0 and ESXi 8.0

Version: 2024.09.00 **(Recommended)**

Filename: cp062952.compsig; cp062952.zip

**Enhancements**

Revise the product name to support ESXi 8.0.

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

Version: 2024.10.01 **(Recommended)**

Filename: cp059215.compsig; cp059215.zip

**Important Note!**

Actual ESXi Version is 6.40.6.0

**Fixes**



- Fixed an issue on VMware ESXi 8.0 U2 where not all controllers were shown via esxcli.
- Fixed an issue on VMware ESXi 8.0 U2 where the create and delete config, as well as other modify operations, were not working.
- Fixed an issue where failed drive details were displayed multiple times in the 'show config' output.
- Fixed incorrect error messages displayed in SSACLI when the modify command threw an error if the 'drive' and 'drivetype' parameters coexisted.
- Fixed an issue where the array creation command failed when executed with the drives=all and drivetype=sata\_hdd parameters.
- Fixed an issue where the drives behind the enclosures were missing in the SSACLI output.
- Fixed an issue where users encountered a failure when launching the SSASCRIPING tool to restore a RAID configuration with an unsupported parameter for PrebootHealthReporting.

## **Enhancements**

- To improve the output format of the NVMe drive health log for the show command.

---

## **Software - Storage Controller**

[Top](#)

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

Version: 2024.06.01 **(Recommended)**

Filename: cp060804.compsig; cp060804.zip

## **Fixes**

Fix an issue that VMware 8.0 command throws storcli pluggin error.

## **Enhancements**

- Support new HPE ProLiant DL145 Gen11 server.

---

## **Software - Storage Fibre Channel**

[Top](#)

HPE QLogic Fibre Channel driver component for VMware vSphere 8.0

Version: 2024.09.01 **(Recommended)**

Filename: cp061889.compsig; cp061889.zip

## **Important Note!**

This component is supported only on Gen11 ProLiant servers.

Release Notes:

[HPE QLogic Adapters Release Notes](#)

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

This driver is only supported on VMware ESXi 8.0u3.

## **Prerequisites**

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

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

## **Enhancements**

Driver version 5.4.83.1

This driver is only supported on VMware ESXi 8.0u3

## **Supported Devices and Features**

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

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

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

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

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

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

---

HPE QLogic Fibre Channel driver component for VMware vSphere 8.0  
Version: 2024.09.01 **(Recommended)**  
Filename: cp062112.compsig; cp062112.zip

### **Important Note!**

This component is supported only on Gen11 ProLiant servers.

Release Notes:

[HPE QLogic Adapters Release Notes](#)

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

### **Prerequisites**

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

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

### **Enhancements**

Driver version 5.4.82.1

### **Supported Devices and Features**

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

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

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

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

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

---

### **Software - System Management**

[Top](#)

HPE Agentless Management Bundle for ESXi on Gen11  
Version: 701.11.7.0 **(Recommended)**  
Filename: amsdvComponent\_701.11.7.0.2-1\_24237060.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 Gen11 Servers  
Version: 2024.09.01 **(Recommended)**  
Filename: cp062858.compsig; cp062858.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 Fiber Channel and Storage Enablement Component for ESXi 8.0

Version: 3.9.0 **(Recommended)**

Filename: fc-enablement-component\_800.3.9.0.30-1\_20300413.zip

### **Enhancements**

Supports VMware ESXi 8.0

---

Integrated Smart Update Tools for VMware ESXi 8.0

Version: 800.5.2.0 **(Recommended)**

Filename: sutComponent\_800.5.2.0.5-0-signed\_component-24262452.zip

### **Important Note!**

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

### **Fixes**

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

### **Enhancements**

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

---

Get connected

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

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

© Copyright 2023 Hewlett Packard Enterprise Development Company, L.P.

The information contained herein is subject to change without notice. The only warranties for HPE products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HPE shall not be liable for technical or editorial errors or omissions contained herein.

Trademark acknowledgments, if needed.

Updated September 26 2024

