

VMware Deliverable Release Notes

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

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BIOS (Login Required) - System ROM

ROM Flash Firmware Package - HPE Apollo 2000 Gen10/HPE ProLiant XL170r/XL190r Gen10 (U38) Servers
Version: 2.32_03-09-2020 (**Critical**)
Filename: U38_2.32_03_09_2020.fwpkg

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Important Note!

Important Notes:

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Deliverable Name:

HPE Apollo 2000 Gen10/ProLiant XL170r/XL190r Gen10 System ROM - U38

Release Version:

2.32_03-09-2020

Last Recommended or Critical Revision:

2.32_03-09-2020

Previous Revision:

2.30_02-11-2020

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

ROM Flash Firmware Package - HPE Apollo 4200 Gen10/HPE ProLiant XL420 Gen10 (U39) Servers
Version: 2.32_03-09-2020 (**Critical**)
Filename: U39_2.32_03_09_2020.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Deliverable Name:

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

Release Version:

2.32_03-09-2020

Last Recommended or Critical Revision:

2.32_03-09-2020

Previous Revision:

2.30_02-11-2020

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

Fixes**Important Notes:**

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

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

Version: 2.32_03-09-2020 **(Critical)**

Filename: U40_2.32_03_09_2020.fwpkg

Important Note!**Important Notes:**

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Deliverable Name:

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

Release Version:

2.32_03-09-2020

Last Recommended or Critical Revision:

2.32_03-09-2020

Previous Revision:

2.30_02-11-2020

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

Fixes**Important Notes:**

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in

other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

ROM Flash Firmware Package - HPE Apollo 6500 Gen10/HPE ProLiant XL270d Gen10 (U45) Servers
Version: 2.32_03-09-2020 **(Critical)**
Filename: U45_2.32_03_09_2020.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Deliverable Name:

HPE Apollo 6500 Gen10/HPE ProLiant XL270d Gen10 System ROM - U45

Release Version:

2.32_03-09-2020

Last Recommended or Critical Revision:

2.32_03-09-2020

Previous Revision:

2.30_02-11-2020

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant BL460c Gen10 (I41) Servers
Version: 2.32_03-09-2020 **(Critical)**
Filename: I41_2.32_03_09_2020.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Deliverable Name:

HPE ProLiant BL460c Gen10 System ROM - I41

Release Version:

2.32_03-09-2020

Last Recommended or Critical Revision:

2.32_03-09-2020

Previous Revision:

2.30_02-11-2020

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

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

Version: 2.32_03-09-2020 **(Critical)**

Filename: U31_2.32_03_09_2020.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Deliverable Name:

HPE ProLiant DL160 Gen10/DL180 Gen10 System ROM - U31

Release Version:

2.32_03-09-2020

Last Recommended or Critical Revision:

2.32_03-09-2020

Previous Revision:

2.30_02-11-2020

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant DL20 Gen10 (U43) Servers

Version: 2.14_03-09-2020 **(Critical)**

Filename: U43_2.14_03_09_2020.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Deliverable Name:

HPE ProLiant DL20 Gen10 System ROM - U43

Release Version:

2.14_03-09-2020

Last Recommended or Critical Revision:

2.14_03-09-2020

Previous Revision:

2.12_12-06-2019

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant DL325 Gen10 (A41) Servers

Version: 2.36_03-09-2020 **(Critical)**

Filename: A41_2.36_03_09_2020.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Deliverable Name:

HPE ProLiant DL325 Gen10 System ROM - A41

Release Version:

2.36_03-09-2020

Last Recommended or Critical Revision:

2.36_03-09-2020

Previous Revision:

2.34_02-18-2020

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

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

Version: 2.32_03-09-2020 **(Critical)**

Filename: U32_2.32_03_09_2020.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Deliverable Name:

HPE ProLiant DL360 Gen10 System ROM - U32

Release Version:

2.32_03-09-2020

Last Recommended or Critical Revision:

2.32_03-09-2020

Previous Revision:

2.30_02-11-2020

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

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

Version: 2.32_03-09-2020 **(Critical)**

Filename: U30_2.32_03_09_2020.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Deliverable Name:

HPE ProLiant DL380 Gen10 System ROM - U30

Release Version:

2.32_03-09-2020

Last Recommended or Critical Revision:

2.32_03-09-2020

Previous Revision:

2.30_02-11-2020

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

Fixes**Important Notes:**

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

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

Version: 2.36_03-09-2020 (**Critical**)

Filename: A40_2.36_03_09_2020.fwpkg

Important Note!**Important Notes:**

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Deliverable Name:

HPE ProLiant DL385 Gen10 System ROM - A40

Release Version:

2.36_03-09-2020

Last Recommended or Critical Revision:

2.36_03-09-2020

Previous Revision:

2.34_02-18-2020

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

Fixes**Important Notes:**

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

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

Version: 2.32_03-09-2020 (**Critical**)

Filename: U34_2.32_03_09_2020.fwpkg

Important Note!**Important Notes:**

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Deliverable Name:

HPE ProLiant DL560 Gen10/DL580 Gen10 System ROM - U34

Release Version:

2.32_03-09-2020

Last Recommended or Critical Revision:

2.32_03-09-2020

Previous Revision:

2.30_02-11-2020

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant MicroServer Gen10 Plus (U48) Servers

Version: 2.10_03-09-2020 (Critical)

Filename: U48_2.10_03_09_2020.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support. Please see advisory: https://support.hpe.com/hpesc/public/docDisplay?docId=emr_na-a00097734en_us

Deliverable Name:

HPE ProLiant MicroServer Gen10 Plus System ROM - U48

Release Version:

2.10_03-09-2020

Last Recommended or Critical Revision:

2.10_03-09-2020

Previous Revision:

2.00_12-06-2019

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 0/1/5/10 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as single RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support. Please see advisory: https://support.hpe.com/hpesc/public/docDisplay?docId=emr_na-a00097734en_us

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 0/1/5/10 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as single RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

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

Version: 2.32_03-09-2020 **(Critical)**

Filename: U33_2.32_03_09_2020.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Deliverable Name:

HPE ProLiant ML110 Gen10 System ROM - U33

Release Version:

2.32_03-09-2020

Last Recommended or Critical Revision:

2.32_03-09-2020

Previous Revision:

2.30_02-11-2020

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

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

Version: 2.14_03-09-2020 **(Critical)**

Filename: U44_2.14_03_09_2020.fwpkg

Important Note!

Important Notes:

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Deliverable Name:

HPE ProLiant ML30 Gen10 System ROM - U44

Release Version:

2.14_03-09-2020

Last Recommended or Critical Revision:

2.14_03-09-2020

Previous Revision:

2.12_12-06-2019

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

Fixes**Important Notes:**

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant ML350 Gen10 (U41) Servers
Version: 2.32_03-09-2020 **(Critical)**
Filename: U41_2.32_03_09_2020.fwpkg

Important Note!**Important Notes:**

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Deliverable Name:

HPE ProLiant ML350 Gen10 System ROM - U41

Release Version:

2.32_03-09-2020

Last Recommended or Critical Revision:

2.32_03-09-2020

Previous Revision:

2.30_02-11-2020

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

Fixes**Important Notes:**

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant XL230k Gen10 (U37) Server
Version: 2.32_03-09-2020 **(Critical)**
Filename: U37_2.32_03_09_2020.fwpkg

Important Note!**Important Notes:**

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Deliverable Name:

HPE ProLiant XL230k Gen10 System ROM - U37

Release Version:

2.32_03-09-2020

Last Recommended or Critical Revision:

2.32_03-09-2020

Previous Revision:

2.30_02-11-2020

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains the latest support for the HPE Smart Array s100i UEFI Driver. This system ROM is critical for customers who have enabled the HPE Smart Array s100i support.

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the HPE Smart Array s100i Software RAID may experience potential data inconsistency during initial configuration or operation of a RAID volume configured in RAID 5/50/50/60 Fault Tolerant Modes. This issue does not impact systems configured in other RAID configurations such as RAID 0 or 1. This issue does not impact systems that have not enabled Smart Array s100i support.

Known Issues:

None

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

Version: 1.16_01-10-2020 (Optional)

Filename: A43_1.16_01_10_2020.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant DL325 Gen10 Plus System ROM - A43

Release Version:

1.16_01-10-2020

Last Recommended or Critical Revision:

1.10_10-29-2019

Previous Revision:

1.10_10-29-2019

Firmware Dependencies:

None

Enhancements/New Features:

Enhanced the system power consumption when system is in an idle state. When running with iLO fw version 2.12 or later, the system will enter a low power state when the Data Fabric C-State Enable option is configured to Auto and iLO Integrated Remote Console is not open.

Enhanced the system performance when running some benchmarks and workloads.

Added a new BIOS/Platform Configuration (RBSU) for DRAM Controller Power Down to Memory Options. This option can be used to opportunistically power down the memory controller.

Added a new BIOS/Platform Configuration (RBSU) for AMD Fmax Boost Limit to Power and Performance Options. This option can be used to configure the maximum boost frequency when AMD Fmax Boost Limit Control is set to manual.

Added a new BIOS/Platform Configuration (RBSU) for XGMI Max Link Width to Power and Performance Options. This option can be used to manually configure the XGMI link width when XGMI Force Link Width is set to manual.

Updated the system thermal logic to support the latest GPU adapters.

Updated the language translations (non-English modes) for System Utilities.

Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.

Problems Fixed:

Addressed an issue where the system would never enter Data Fabric C-States. Data Fabric C-States can help reduce overall power consumption of a system that is running an idle or low stress workload.

Addressed an issue where the system would report the HPE Memory Type as Unknown. This was only an issue with reporting and did not affect system behavior.

Addressed an issue where RestCli or a Redfish "Get" command could return some invalid configuration settings.

Addressed an issue where systems configured with an UBM backplane may very rarely become unresponsive during post with a red error screen (RSOD) indicating a general protection fault in the PlatformStorageSupportDxe Image.

Addressed an issue where systems configured with an UBM backplane will not honor a customer configured One-Time boot setting.

Known Issues:

None

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the system would never enter Data Fabric C-States. Data Fabric C-States can help reduce overall power consumption of a system that is running an idle or low stress workload.

Addressed an issue where the system would report the HPE Memory Type as Unknown. This was only an issue with reporting and did not affect system behavior.

Addressed an issue where RestCli or a Redfish "Get" command could return some invalid configuration settings.

Addressed an issue where systems configured with an UBM backplane may very rarely become unresponsive during post with a red error screen (RSOD) indicating a general protection fault in the PlatformStorageSupportDxe Image.

Addressed an issue where systems configured with an UBM backplane will not honor a customer configured One-Time boot setting.

Known Issues:

None

Enhancements

Enhanced the system power consumption when system is in an idle state. When running with iLO fw version 2.12 or later, the system will enter a low power state when the Data Fabric C-State Enable option is configured to Auto and iLO Integrated Remote Console is not open.

Enhanced the system performance when running some benchmarks and workloads.

Added a new BIOS/Platform Configuration (RBSU) for DRAM Controller Power Down to Memory Options. This option can be used to opportunistically power down the memory controller.

Added a new BIOS/Platform Configuration (RBSU) for AMD Fmax Boost Limit to Power and Performance Options. This option can be used to configure the maximum boost frequency when AMD Fmax Boost Limit Control is set to manual.

Added a new BIOS/Platform Configuration (RBSU) for XGMI Max Link Width to Power and Performance Options. This option can be used to manually configure the XGMI link width when XGMI Force Link Width is set to manual.

Updated the system thermal logic to support the latest GPU adapters.

Updated the language translations (non-English modes) for System Utilities.

Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.

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

Version: 1.18_01-22-2020 (**Optional**)

Filename: A42_1.18_01_22_2020.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant DL385 Gen10 Plus System ROM - A42

Release Version:

1.18_01-22-2020

Last Recommended or Critical Revision:

1.10_10-29-2019

Previous Revision:

1.10_10-29-2019

Firmware Dependencies:

None

Enhancements/New Features:

Enhanced the system power consumption when system is in an idle state. When running with iLO fw version 2.12 or later, the system will enter a low power state when the Data Fabric C-State Enable option is configured to Auto and iLO Integrated Remote Console is not open.

Enhanced the system performance when running some benchmarks and workloads.

Added a new BIOS/Platform Configuration (RBSU) for DRAM Controller Power Down to Memory Options. This option can be used to opportunistically power down the memory controller.

Added a new BIOS/Platform Configuration (RBSU) for AMD Fmax Boost Limit to Power and Performance Options. This option can be used to configure the maximum boost frequency when AMD Fmax Boost Limit Control is set to manual.

Added a new BIOS/Platform Configuration (RBSU) for XGMI Max Link Width to Power and Performance Options. This option can be used to manually configure the XGMI link width when XGMI Force Link Width is set to manual.

Updated the system thermal logic to support the latest GPU adapters.

Updated the language translations (non-English modes) for System Utilities.

Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.

Problems Fixed:

Addressed an issue where the system would never enter Data Fabric C-States. Data Fabric C-States can help reduce overall power consumption of a system that is running an idle or low stress workload.

Addressed an issue where the system would report the HPE Memory Type as Unknown. This was only an issue with reporting and did not affect system behavior.

Addressed an issue where RestCli or a Redfish "Get" command could return some invalid configuration settings.

Addressed an issue where systems configured with an UBM backplane may very rarely become unresponsive during post with a red error screen (RSOD) indicating a general protection fault in the PlatformStorageSupportDxe Image.

Addressed an issue where systems configured with an UBM backplane will not honor a customer configured One-Time boot setting.

Known Issues:

None

Fixes**Important Notes:**

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the system would never enter Data Fabric C-States. Data Fabric C-States can help reduce overall power consumption of a system that is running an idle or low stress workload.

Addressed an issue where the system would report the HPE Memory Type as Unknown. This was only an issue with reporting and did not affect system behavior.

Addressed an issue where RestCli or a Redfish "Get" command could return some invalid configuration settings.

Addressed an issue where systems configured with an UBM backplane may very rarely become unresponsive during post with a red error screen (RSOD) indicating a general protection fault in the PlatformStorageSupportDxe Image.

Addressed an issue where systems configured with an UBM backplane will not honor a customer configured One-Time boot setting.

Known Issues:

None

Enhancements

Enhanced the system power consumption when system is in an idle state. When running with iLO fw version 2.12 or later, the system will enter a low power state when the Data Fabric C-State Enable option is configured to Auto and iLO Integrated Remote Console is not open.

Enhanced the system performance when running some benchmarks and workloads.

Added a new BIOS/Platform Configuration (RBSU) for DRAM Controller Power Down to Memory Options. This option can be used to opportunistically power down the memory controller.

Added a new BIOS/Platform Configuration (RBSU) for AMD Fmax Boost Limit to Power and Performance Options. This option can be used to configure the maximum boost frequency when AMD Fmax Boost Limit Control is set to manual.

Added a new BIOS/Platform Configuration (RBSU) for XGMI Max Link Width to Power and Performance Options. This option can be used to manually configure the XGMI link width when XGMI Force Link Width is set to manual.

Updated the system thermal logic to support the latest GPU adapters.

Updated the language translations (non-English modes) for System Utilities.

Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.

Driver - Network

Mellanox net-mst Kernel Driver Component for VMware ESXi 6.5 and 6.7

Version: 2019.01.02 (**Recommended**)

Filename: cp038662.compsig; cp038662.zip

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Important Note

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

Fixes

Mellanox NMST Kernel Module Driver Component for VMware ESXi 6.0 includes nmst version 4.12.0.105.

Enhancements

Mellanox NMST Kernel Module Driver Component for VMware ESXi 6.0 includes nmst version 4.12.0.105.

Supported Devices and Features

HPE Part Number	Device Name	PSID
764282-B21	HPE InfiniBand QDR/Ethernet 10Gb 2-port 544+M Adapter	HP_1350110023
764283-B21	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+M Adapter	HP_1360110017
764284-B21	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter	HP_1370110017
764285-B21	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter	HP_1380110017
764286-B21	HPE InfiniBand QDR/Ethernet 10Gb 2-port 544+FLR-QSFP Adapter	HP_1390110023
825110-B21	HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter	HP_2180110032
825111-B21	HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter	HP_2190110032
872726-B21	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	HPE0000000009
879482-B21	HPE InfiniBand FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter	HPE0000000022
868779-B21	HPE Synergy 6410C 25/50Gb Ethernet Adapter	HPE0000000006
779793-B21	HPE Ethernet 10Gb 2-port 546SFP+ Adapter	HP_1200111023
779799-B21	HPE Ethernet 10Gb 2-port 546FLR-SFP+ Adapter	HP_2240110004

817749-B21	HPE Ethernet 25Gb 2-port 640FLR-SFP28 Adapter	HP_2690110034
817753-B21	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	HP_2420110034
874253-B21	HPE Ethernet 100Gb 1-port 842QSFP28 Adapter	HPE0000000014

HPE Blade Emulex 10/20GbE Driver for VMware vSphere 6.5
Version: 2020.03.09 (**Optional**)
Filename: cp042919.compsig; cp042919.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 CPOxxxx.xml file.
HPE recommends the firmware provided in *HPE Firmware Flash for Emulex Converged Network Adapters for VMware vSphere 6.5*, version 2019.12.01 or later, for use with this driver.

Fixes

This product corrects a vmnic flapping issue which impacts network connectivity.

Supported Devices and Features

This driver supports the following network adapters:

- o HPE FlexFabric 20Gb 2-port 650FLB Adapter
- o HPE FlexFabric 20Gb 2-port 650M Adapter

HPE Blade Emulex 10/20GbE iSCSI Driver for VMware vSphere 6.5
Version: 2019.12.20 (**Optional**)
Filename: cp039936.compsig; cp039936.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 CPOxxxx.xml file.
HPE recommends the firmware provided in *HPE Firmware Flash for Emulex Converged Network Adapters for VMware vSphere 6.5*, version 2019.03.01 or later, for use with this driver.

Enhancements

Initial release.

Supported Devices and Features

This driver supports the following network adapters:

- o HPE FlexFabric 20Gb 2-port 650FLB Adapter
- o HPE FlexFabric 20Gb 2-port 650M Adapter

HPE Blade Intel ixgben Driver for VMware vSphere 6.5
Version: 2019.12.20 (**Optional**)
Filename: cp039952.compsig; cp039952.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 CPOxxxx.xml file.
HPE recommends the firmware provided in *HPE Blade Intel Online Firmware Upgrade Utility for VMware*, version 1.0.7 or later, for use with this driver.

Fixes

This product corrects a recursion termination condition so that recursion correctly ends in the case of PCIe link down.
This product addresses an issue where the ixgben driver has high CPU overhead when an SFP+ module is absent.

Enhancements

Initial release.

Supported Devices and Features

These drivers support the following network adapters:

- o HPE Ethernet 10Gb 2-port 560FLB Adapter
- o HPE Ethernet 10Gb 2-port 560M Adapter

HPE Blade QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 6.5
Version: 2019.12.20 (**Optional**)
Filename: cp039954.compsig; cp039954.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 CPOxxxx.xml file.
HPE recommends the firmware provided in *HPE Blade QLogic NX2 Online Firmware Upgrade Utility for VMware*, version 1.0.8 or later, for use with this driver.

Fixes

This product addresses a VMkernel critical error (PSOD) seen during N-Port ID Virtualization (NPIV) VM power off.

This product addresses a PSOD seen with FCoE.

Enhancements

Initial release.

Supported Devices and Features

These drivers support the following network adapters:

- HPE FlexFabric 10Gb 2-port 534M Adapter
- HPE FlexFabric 10Gb 2-port 536FLB Adapter
- HPE FlexFabric 20Gb 2-port 630FLB Adapter
- HPE FlexFabric 20Gb 2-port 630M Adapter

HPE Broadcom NetXtreme-E Drivers for VMware vSphere 6.5

Version: 2020.03.09 (**Optional**)

Filename: cp041829.compsig; cp041829.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 firmware provided in *HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for VMware*, version 5.10.1 or later, for use with this driver.

Fixes

This product corrects an issue network connectivity ping issue in ESXi 6.5

Enhancements

This product now supports the following network adapters.

- HPE Ethernet 10Gb 2-port 537SFP+ Adapter
- HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port 535FLR-T Adapter
- HPE Ethernet 10Gb 2-port 535T Adapter
- HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter
- HPE Ethernet 10/25Gb 2-port 631SFP2B Adapter
- HPE Ethernet 10Gb 2-port 537SFP+ Adapter
- HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter

HPE Emulex 10/20 GbE Driver for VMware vSphere 6.5

Version: 2020.03.09 (**Optional**)

Filename: cp041841.compsig; cp041841.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 firmware provided in *HPE Firmware Flash for Emulex Converged Network Adapters for VMware vSphere 6.5*, version 2019.03.01 or later, for use with this driver.

Fixes

This product corrects an issue vmnic flapping caused the network connectivity to be affected.

Supported Devices and Features

This driver supports the following network adapters:

- HP StoreFabric CN1200E Dual Port Converged Network Adapter
- HPE StoreFabric CN1200E-T Adapter

HPE Emulex 10/20GbE iSCSI Driver for VMware vSphere 6.5

Version: 2020.03.09 (**Optional**)

Filename: cp041839.compsig; cp041839.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 firmware provided in *HPE Firmware Flash for Emulex Converged Network Adapters for VMware vSphere 6.5*, version 2019.03.01 or later, for use with this driver.

Fixes

This product corrects an issue ESXi lib naming convention in iscsi driver packages caused payload conflict for ESXi 6.5.

Supported Devices and Features

This driver supports the following network adapters:

- HP StoreFabric CN1200E Dual Port Converged Network Adapter
- HPE StoreFabric CN1200E-T Adapter

HPE Intel i40en Driver for VMware vSphere 6.5
Version: 2019.12.20 (**Optional**)
Filename: cp040369.compsig; cp040369.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 firmware provided in *HPE Intel Online Firmware Upgrade Utility for VMware*, version 3.12.0 or later, for use with this driver.

Fixes

This product addresses an issue where VLAN tag traffic dropped problem.

Enhancements

This product now remove supports Synergy and Blade Server.

Supported Devices and Features

This product supports the following network adapters:

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

HPE Intel igbn Driver for VMware vSphere 6.5
Version: 2019.12.20 (**Optional**)
Filename: cp040825.compsig; cp040825.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 firmware provided in *HPE Intel Online Firmware Upgrade Utility for VMware*, version 3.12.0 or later, for use with this driver.

Fixes

This product addresses an issue where race condition during NIC adapter reset.

Enhancements

This product now remove supports Synergy and Blade Server.

Supported Devices and Features

These drivers support the following network adapters:

- HP Ethernet 1Gb 2-port 361i Adapter
- HP Ethernet 1Gb 2-port 361T Adapter
- HP Ethernet 1Gb 2-port 363i Adapter
- HP Ethernet 1Gb 4-port 366FLR Adapter
- HP Ethernet 1Gb 4-port 366i Adapter
- HPE Ethernet 1Gb 4-port 366i Communication Board
- HP Ethernet 1Gb 4-port 366T Adapter

HPE Intel ixgben Driver for VMware vSphere 6.5
Version: 2019.12.20 (**Optional**)
Filename: cp040371.compsig; cp040371.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 firmware provided in *HPE Intel Online Firmware Upgrade Utility for VMware*, version 3.12.0 or later, for use with this driver.

Fixes

This product corrects a recursion termination condition so that recursion correctly ends in the case of PCIe link down.

This product addresses an issue where the ixgben driver has high CPU overhead when an SFP+ module is absent.

Enhancements

This product no longer supports ProLiant Blade servers and devices. Those servers and devices are now supported by the [HPE Blade Intel ixgben Driver for VMware vSphere 6.5](#).

Supported Devices and Features

These drivers support the following network adapters:

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

HPE QLogic FastLinQ 10/25/50 GbE Multifunction Driver for VMware vSphere 6.5
Version: 2019.12.20 (**Optional**)
Filename: cp039895.compsig; cp039895.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.hp.com webpages, plus an HPE specific CPOxxxx.xml file.

HPE recommends the firmware provided in *HPE QLogic FastLinQ Online Firmware Upgrade Utility for VMware*, version 4.11.0 or later, for use with this driver.

Fixes

This product addresses a PSOD in ESXi6.5 when running FCoE continuous reboot.

Enhancements

This product now remove supports Synergy and Blade Server.

Supported Devices and Features

This product supports the following network adapters:

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

HPE QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 6.5
Version: 2019.12.20 (**Optional**)
Filename: cp040826.compsig; cp040826.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.hp.com webpages, plus an HPE specific CPOxxxx.xml file.

HPE recommends the firmware provided in *HPE QLogic NX2 Online Firmware Upgrade Utility for VMware*, version 1.26.0 or later, for use with this driver.

Fixes

This product addresses a Vmkernel critical error (PSOD) seen during N-Port ID Virtualization (NPIV) VM power off.
This product addresses a PSOD seen with FCoE.

Enhancements

This product no longer supports ProLiant Blade servers and devices. Those servers and devices are now supported by the [HPE Blade QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 6.5](#).

This product no longer supports Synergy servers and devices. The Synergy-specific product is not yet available. You should continue to use version 2019.08.02 of this product until the new Synergy product is released. This page will be updated with a pointer to the new product when it is available.

Supported Devices and Features

These drivers support the following network adapters:

- o HP Ethernet 10Gb 2-port 530SFP+ Adapter
- o HP Ethernet 10Gb 2-port 530T Adapter
- o HP Ethernet 10Gb 2-port 533FLR-T Adapter
- o HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter
- o HP StoreFabric CN1100R Dual Port Converged Network Adapter
- o HPE StoreFabric CN1100R-T Dual Port Converged Network Adapter

nmlx4_en Driver Component for VMware 6.5
Version: 2019.06.14 (**Recommended**)
Filename: cp040179.compsig; cp040179.zip

Important Note

Known Issues:

- o ConnectX-3 Pro 10G adapter cards incorrectly report support for 40G speed when running the "esxcli network nic get" command.
- o When the port is DOWN, the management interface "port type" field indicates one of the port types supported by the device, in the following order: TP, FIBER, DA, NONE. If the port supports several cable types, the first type in the list mentioned above will be printed.
- o When the port is UP, the management interface port type field (nmlx_en_MgmtIFPortType) indicates which one of all possible supported types is currently connected.
- o Management interface port type field reports SFP-to-RJ45 cable as FIBER.
- o Management interface auto negotiation field is equivalent to "esxcli network nic get -n vmnicX" field "Pause Autonegotiate".

For further information on the release notes for ESXi 6.5 Driver Version 3.16.11.10 follow the below link:
https://www.mellanox.com/page/products_dyn?product_family=29&mtag=vmware_driver

Fixes

No Fixes were included in version 3.16.11.10.

Enhancements

Changes and New Features in version 3.16.11.10:

- o Resolved an issue that caused the network adapter traffic to stop.
- o Fixed an internal multicast loopback issue that broke LACP(Link Aggregation Control Protocol) bonding protocol.

Supported Devices and Features

HPE Part Number	Device Name	PSID
764282-B21	HPE InfiniBand QDR/Ethernet 10Gb 2-port 544+M Adapter	HP_1350110023
764283-B21	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+M Adapter	HP_1360110017
764284-B21	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter	HP_1370110017
764285-B21	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter	HP_1380110017
764286-B21	HPE InfiniBand QDR/Ethernet 10Gb 2-port 544+FLR-QSFP Adapter	HP_1390110023
779793-B21	HPE Ethernet 10Gb 2-port 546SFP+ Adapter	HP_1200111023
779799-B21	HPE Ethernet 10Gb 2-port 546FLR-SFP+ Adapter	HP_2240110004

nmlx5_en Driver Component for VMware 6.5

Version: 2019.06.19 (**Recommended**)

Filename: cp040234.zip; cp040234_part1.compsig; cp040234_part2.compsig

Important Note

Known Issues in version 4.16.14.2:

- ECN tunable parameter initialAlphaValue for the Reaction Point protocol cannot be modified.
- ECN statistic counters accumulatorsPeriod and ecnMarkedRoce-Packets display wrong values and cannot be cleared.
- The hardware can offload only up to 256 Bytes of headers.
- The "esxcli network sriovnic vf stats" command is not supported.
- Traffic cannot be sent between PV and SR-IOV VF connected to different ports on the same HCA.
- Setting the "Allow Guest MTU Change" option in vSphere Client is currently not functional. Although guest MTU changes in SR-IOV are allowed, they do not affect the port's MTU and the guest's MTU remains the same as the PF MTU.
- Geneve options length support is limited to 56 Bytes. Received packets with options length bigger than 56 Bytes are dropped.
- Interaction with ConnectX-4/ConnectX-4 Lx older firmware versions might result in the following internal firmware errors:
 - Device health compromised
 - synd 0x1: firmware internal error
 - extSync 0x94ee
- The "esxcli mellanox uplink link info -u <vnic_name>" command reports the 'Auto negotiation' capability always as 'true'.
- Wake-on-LAN does not notify when invalid parameters are provided.
- Nested ESXi might not function properly.
- Device RSS fails to hash traffic to sufficient RX rings with Broadcast traffic.
- In stress condition 'Watchdog' may appear leading to link going up and down.
- VGT traffic over VXLAN interfaces is currently not supported.
- SMP MADs (ibnetdiscover, sminfo, iblinkinfo, smpdump, ibqueryerr, ibdiagnet and smpquery) are not supported on the VFs.
- Although the max_vfs module parameter range is "0-128", due to firmware limitations, the following are the supported VFs per single port:
 - ConnectX-4: up to 127
 - ConnectX-5: up to 63

For further information on the release notes for ESXi 6.5 Driver Version 4.16.14.2 follow the below link: https://www.mellanox.com/page/products_dyn?product_family=29&mtag=vmware_driver

Fixes

The following issues have been fixed in version 4.16.14.2:

- Fixed an issue that prevented ESXi from being discovered via the CDP(Cisco Discovery Protocol) protocol on ConnectX-4 Lx adapter cards.

Enhancements

Changes and New Features in smart component version 2019.06.19:

- Added support for the following adapters:
 - HPE Ethernet 10/25Gb 2-port 642SFP28 Adapter (HPE Part Number: P13188-B21)
 - HPE Ethernet 10/25Gb 2-port 642SFP28 OCP3 Adapter (HPE Part Number: P10112-B21)
 - HPE Ethernet 10Gb 2-port 548SFP+ OCP3 Adapter (HPE Part Number: P11341-B21)

New features and changes in version 4.16.14.2:

- Removed a VF(Virtual Fuction) driver limitation. Now the driver can support the maximum number of VFs supported by the firmware.

Supported Devices and Features

HPE Part Number	Device Name	PSID
825110-B21	HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter	HP_2180110032
825111-B21	HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter	HP_2190110032
872726-B21	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	HPE0000000009
879482-B21	HPE InfiniBand FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter	HPE0000000022
868779-B21	HPE Synergy 6410C 25/50Gb Ethernet Adapter	HPE0000000006
817749-B21	HPE Ethernet 25Gb 2-port 640FLR-SFP28 Adapter	HP_2690110034
817753-B21	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	HP_2420110034
874253-B21	HPE Ethernet 100Gb 1-port 842QSFP28 Adapter	HPE0000000014

VMware ESXi 6.5 and 6.7 MST Drivers Offline Bundle for Mellanox Adapters

Version: 4.12.0.105 (**Recommended**)

Filename: MLNX-NMST-ESX-6.5.0-4.12.0.105.zip

Prerequisites

NA

Enhancements

VM65/67 nmst 4.12.0.105

Driver - Storage Controller[Top](#)

HPE Dynamic Smart Array B140i Controller Driver for VMware vSphere 6.5 (Driver Component).

Version: 2019.05.01 (**Recommended**)

Filename: cp039786.compsig; cp039786.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.

Fixes

Fixes an issue where the driver will not upgrade due to the AHCI driver taking priority.

This issue is only encounter when upgrading to version 2018.09.31 (5.5.0.66-1). All other versions are not affected.

HPE Dynamic Smart Array Controller Driver for VMware vSphere 6.5 (Bundle file).

Version: 5.5.0.68-1 (**Recommended**)

Filename: hpsa-5.5.0.68.zip

Fixes

Fixes an issue where the driver will not upgrade due to the AHCI driver taking priority.

This issue is only encounter when upgrading to version 2018.09.31 (5.5.0.66-1). All other versions are not affected.

HPE H2xx SAS/SATA Host Bus Adapter (64-bit) Driver for vSphere 6.5

Version: 15.10.07.00-1 (A) (**Optional**)

Filename: mpt2sas-15.10.07.00-esxi5.5-4778920.zip

Fixes**Change implemented in version 15.10.07.00-1(A):**

- Updated to support Service Pack for ProLiant version 2017.07.0.
Note: If driver version 15.10.07.00-1 was previously installed, then it is not necessary to upgrade to version 15.10.07.00-1(A).

Issues resolved in version 15.10.07.00-1:

- Fixes minor installation issue with the driver on VMware vSphere 6.5.

Supported Devices and Features

NOTE: HPE H221 Host Bus Adapter does not support connection to D2600, D2700, and D6000 Disk Enclosures with Gen9 servers.

HPE H2xx SAS/SATA Host Bus Adapter (64-bit) Driver for vSphere 6.5 (Driver Component).

Version: 2017.01.20 (A) (**Optional**)

Filename: cp032277.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.

Fixes**Change implemented in version 2017.01.20(A):**

- Updated to support Service Pack for ProLiant version 2017.07.0.
Note: If component version 2017.01.20 was previously installed, then it is not necessary to upgrade to version 2017.01.20(A).

Issues resolved in version 2017.01.20:

- Fixes minor installation issue with the driver on VMware vSphere 6.5.

Supported Devices and Features

NOTE: HPE H221 Host Bus Adapter does not support connection to D2600, D2700, and D6000 Disk Enclosures with Gen9 servers.

HPE ProLiant Gen10 Smart Array Controller Driver for VMware ESXi 6.5 (Bundle file)

Version: 1.0.4.3008 (**Recommended**)

Filename: VMW-ESX-6.5.0-smartpqi-1.0.4.3008-offline_bundle-14862448.zip

Enhancements

Add Timeout support field in pass-through and task management request in order to enable a recover mechanism when a when a pass-through command fails to complete.

HPE ProLiant Gen10 Smart Array Controller Driver for VMware vSphere 6.5 (Driver Component).

Version: 2019.12.01 (**Recommended**)

Filename: cp040982.compsig; cp040982.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.hp.com webpages, plus an HPE specific CPXXXX.xml file.

Enhancements

Add Timeout support field in pass-through and task management request in order to enable a recover mechanism when a when a pass-through command fails to complete.

HPE ProLiant Smart Array Controller Driver for VMware vSphere 6.5 (Bundle file)

Version: 2.0.44-1 (**Recommended**)

Filename: VMW-ESX-6.5.0-nhpsa-2.0.44-offline_bundle-14136210.zip

Fixes

- Fix an issue where data could become inaccessible if a hot plug is performed while using SATA drivers connected to the controller directly without an external storage enclosure.

HPE ProLiant Smart Array Controller Driver for VMware vSphere 6.5 (Driver Component).

Version: 2019.09.01 (**Recommended**)

Filename: cp040734.compsig; cp040734.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 vib depot.hpe.com webpages, plus an HPE specific CPXXXX.xml file.

Fixes

- Fix an issue where data could become inaccessible if a hot plug is performed while using SATA drivers connected to the controller directly without an external storage enclosure.

HPE Smart Array P824i-p MR controller (64-bit) Driver for vSphere 6.5

Version: 7.706.09.00 (**Recommended**)

Filename: Release_Notes_Isi-mr3-7.706.09.00-10EM_6.5.txt; VMW-ESX-6.5.0-Isi_mr3-7.706.09.00-12102431.zip

Fixes

Addressed a vSAN Fault Tolerance test failure seen in JBOD mode.

HPE Smart Array P824i-p MR controller (64-bit) Driver for vSphere 6.5 (Driver Component)

Version: 2019.12.13 (**Recommended**)

Filename: cp042803.compsig; cp042803.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 vib depot.hpe.com webpages, plus an HPE specific CPXXXX.xml file.

Fixes

Addressed a vSAN Fault Tolerance test failure seen in JBOD mode.

Firmware - Network

HPE Blade Intel Online Firmware Upgrade Utility for VMware

Version: 1.0.7 (**Optional**)

Filename: CP040426.compsig; CP040426.zip

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Important Note!

HPE recommends the *HPE Blade Intel ixgben Drivers for VMware*, versions 2019.12.20, for use with this firmware.

Prerequisites

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

Fixes

This product addresses an issue where the "Firmware Image Properties," "Device Level Configuration," and "Link Speed Status" options in NIC HII menu disappear when F7 is pressed.

Enhancements

Initial release.

Supported Devices and Features

This package supports the following network adapters:

- HPE Ethernet 10Gb 2-port 560FLB Adapter
- HPE Ethernet 10Gb 2-port 560M Adapter

HPE Blade QLogic NX2 Online Firmware Upgrade Utility for VMware

Version: 1.0.8 (**Optional**)

Filename: CP039870.compsig; CP039870.zip

Important Note!

HPE recommends *HPE Blade QLogic NX2 10/20GbE Multifunction Drivers for VMware*, versions 2019.12.20 or later, for use with this firmware.

Prerequisites

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

Fixes

This product addresses an incorrect local sequence number in the Link Layer Discovery Protocol (LLDP).

This product addresses an issue where boot mode is not restored to the default value after a factory reset.

This product addresses an issue where the F1 help messages "Number of VFs per PF" and "Legacy Boot Protocol" option display incorrectly in Japanese and Simplified Chinese languages.

Enhancements

Initial release.

Supported Devices and Features

This product supports the following network adapters:

- HPE FlexFabric 10Gb 2-port 534M Adapter
- HPE FlexFabric 10Gb 2-port 536FLB Adapter
- HPE FlexFabric 20Gb 2-port 630FLB Adapter
- HPE FlexFabric 20Gb 2-port 630M Adapter

HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for VMware

Version: 5.10.1 (Optional)

Filename: CP041782.compsig; CP041782.zip

Important Note!

HPE recommends *HPE Broadcom NetXtreme-E Drivers for VMware*, versions 2019.08.02 or later, for use with this firmware.

This software package contains NVM Image version 214.0.286015 with the following firmware versions:

NIC	Bootcode Version	NCSI Version	MBA Version	UEFI Version	CCM Version	RoCE Version
HPE Ethernet 10Gb 2-port 535FLR-T Adapter	214.4.9.7	214.0.253.1	214.0.233.0	214.0.262.6	214.0.221.0	214.0.187.0
HPE Ethernet 10Gb 2-port 535T Adapter						
HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter						
HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter						
HPE Ethernet 10Gb 2-port 537SFP+ Adapter						
HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter						

Prerequisites

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

Enhancements

This product now supports the following network adapters.

- HPE Ethernet 10Gb 2-port 537SFP+ Adapter
- HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter

Supported Devices and Features

This product supports the following network adapters:

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

HPE Broadcom NX1 Online Firmware Upgrade Utility for VMware

Version: 1.26.1 (Optional)

Filename: CP042268.compsig; CP042268.zip

Important Note!

HPE recommends *HP Broadcom tg3 Ethernet Drivers for VMware*, versions 2015.10.01, for use with this firmware.

This software package contains combo image v20.14.62 with the following firmware versions:

NIC	Boot Code Version	PXE Version	NCSI Version	UEFI Version	CCM Version
HPE Ethernet 1Gb 2-port 330i Adapter (22BD)	2.10	20.14.2	1.5.12	20.14.28	214.0.221.0
HPE Ethernet 1Gb 4-port 331i Adapter (22BE) HPE Ethernet 1Gb 4-port 331FLR Adapter HPE Ethernet 1Gb 4-port 331T Adapter	1.46	20.14.2	1.5.12	20.14.28	214.0.221.0
HPE Ethernet 1Gb 2-port 332i Adapter (22E8) HPE Ethernet 1Gb 2-port 332T Adapter	1.40	20.14.2	1.5.12	20.14.28	214.0.221.0

Prerequisites

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

Fixes

This product addresses an issue where Legacy Boot Protocol(System Utilities -> System Configuration -> NIC HII menu -> BA Configuration Menu) changes from None to PXE.
This product addresses an issue where it would be forced to exit System Utilities when select Port 2 & Port 3(System Utilities -> System Configuration -> NIC HII menu).

Supported Devices and Features

This product supports the following network adapters:

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

HPE Firmware Flash for Emulex Converged Network Adapters for VMware vSphere 6.5

Version: 2019.12.01 (**Recommended**)

Filename: CP039568.compsig; CP039568.zip

Important Note

Release Notes:

[HPE StoreFabric Emulex Adapter Release Notes](#)

Beginning with software release 11.2, Fibre Channel (LightPulse) adapters and Converged Network adapters (OneConnect) have independent software kits.

It is highly recommended that you review the Broadcom Software Kit Migration User Guide for more detailed information regarding this change.

To obtain the guide:

1. Go to <http://www.hpe.com/support/manuals>
2. Using the HPE model number as your guide, enter the adapter model number in the Search products box, and then click >>.

This document provides special instructions and considerations for using the driver kits for FC and CNA adapters.

Special cases include those in which pre-11.2 (original) drivers and applications are replaced by the new 11.2 drivers and applications, and cases in which inbox drivers are replaced by the new 11.2 out-of-box (OOB) drivers.

Prerequisites

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

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

Fixes

Fixed the following:

UEFI:

- o Change Unified Extensible Firmware Interface (UEFI) support version from 2.6 to 2.7
- o HPE FlexFabric 20Gb 2-port 650FLB Adapter and HPE FlexFabric 20Gb 2-port 650M Adapter does not complete to create boot source on 2nd port

Firmware:

- o Light Emitting Diode(LED) is in invalid state when disable the port under Unified Extensible Firmware Interface (UEFI)
- o Duplicate Entries found in firmware report under NIC details for few adaptors.
- o Full adapter name is not displayed for HPE FlexFabric 20Gb 2-port 650M Adapter in some Rom Based Setup Utility (RBSU).

Enhancements

Updated CNA (XE100 series) firmware

Firmware

Contains:

CNA (XE100 series) firmware 12.0.1280.5

Supported Devices and Features

This component is supported on following Emulex Converged Network Adapters:

XE100 Series:

- o HPE StoreFabric CN1200E Dual Port Converged Network Adapter
- o HPE FlexFabric 20Gb 2-port 650FLB Adapter
- o HPE FlexFabric 20Gb 2-port 650M Adapter
- o HPE StoreFabric CN1200E-T Adapter

HPE Intel Online Firmware Upgrade Utility for VMware

Version: 3.12.12 (**Optional**)

Filename: CP040151.compsig; CP040151.zip

Important Note

HPE recommends at least one of the following drivers, as appropriate for your device, for use with this firmware:

- o *HPE Intel igbn Drivers for VMware*, versions 2019.12.20
- o *HPE Intel ixgben Drivers for VMware*, versions 2019.12.20
- o *HPE Intel i40en Drivers for VMware*, versions 2019.12.20

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

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NIC	EEPROM/NVM Version	OROM Version	Single NVM Version
HP Ethernet 1Gb 2-port 361i Adapter	8000106F	1.2529.0	N/A
HP Ethernet 1Gb 2-port 361T Adapter	80000F91	1.2529.0	N/A
HP Ethernet 1Gb 2-port 363i Adapter	80000D00	1.2529.0	N/A
HPE Ethernet 1Gb 4-port 366i Communication Board	80000EBF	1.2529.0	N/A
HP Ethernet 1Gb 4-port 366i Adapter	8000105E	1.2529.0	N/A
HP Ethernet 1Gb 4-port 366FLR Adapter	80001060	1.2529.0	N/A
HP Ethernet 1Gb 4-port 366T Adapter	8000105F	1.2529.0	N/A
HPE Ethernet 1Gb 2-port 368i Adapter	80001DEA	1.2529.0	N/A
HPE Ethernet 1Gb 2-port 368FLR-MMT Adapter	80001DE9	1.2529.0	N/A
HPE Ethernet 1Gb 4-port 369i Adapter	80001DEC	1.2529.0	N/A
HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter	80000838	1.2529.0	N/A
HPE Ethernet 10Gb 2-port 560SFP+ Adapter	80000835	1.2529.0	N/A
HPE Ethernet 10Gb 2-port 568i Adapter	80001DEE	1.2529.0	N/A
HPE Ethernet 10Gb 2-port 568FLR-MMSFP+ Adapter	80001DE9	1.2529.0	N/A
HPE Ethernet 10Gb 2-port 568FLR-MMT Adapter	80001DE9	1.2529.0	N/A
HPE Ethernet 10Gb 2-port 563i Adapter	800035C0	1.1375.0	N/A
HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	8000641A	1.2529.0	10.51.5
HPE Ethernet 10Gb 2-port 562FLR-T Adapter	80000F56	1.2529.0	10.51.3
HPE Ethernet 10Gb 2-port 562SFP+ Adapter	80006424	1.2529.0	10.51.5
HPE Ethernet 10Gb 2-port 562T Adapter	80000F55	1.2529.0	10.51.3

The combo image v1.2529.0 includes: Boot Agent: 1GbE - v1.5.88, 10GbE - v2.4.34, 40GbE - v1.1.10 & UEFI Drivers: 1GbE - v9.0.03, 10GbE - v7.4.06, 40GbE - v3.9.11

The combo image v1.1375.0 includes: Boot Agent: 1GbE - v1.5.72, 10GbE - v2.3.46, 40GbE - v1.0.21 & UEFI Drivers: 1GbE - v6.9.13, 10GbE - v5.0.20, 40GbE - v1.5.14

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

Prerequisites

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

Fixes

This product addresses an issue where LLDP are disabled.

This product addresses an issue where "Firmware Image Properties", "Device Level Configuration", and "Link Speed Status" options in NIC HII menu will disappear when F7 is pressed.

This product addresses an issue where POST when ESC is Pressed to Enter The BIOS Setup Utility with HP Ethernet 1Gb 4-port 366FLR Adapter.

This product addresses an issue where there is no VLAN function under Legacy mode.

Enhancements

This product no longer supports ProLiant Blade servers and devices. Those servers and devices are now supported by the [HPE Blade Intel Online Firmware Upgrade Utility for VMware](#).

This product no longer supports Synergy servers and devices. The Synergy-specific Intel NIC firmware product is not yet available. You should continue to use version 3.11.7 of this product until the new Synergy product is available. This page will be updated with a pointer to the new product when it is available.

Supported Devices and Features

This package supports the following network adapters:

- HP Ethernet 1Gb 4-port 366T Adapter
- HP Ethernet 1Gb 4-port 366FLR Adapter
- HPE Ethernet 1Gb 2-port 368FLR-MMT Adapter
- HP Ethernet 1Gb 2-port 361T Adapter
- HPE Ethernet 10Gb 2-port 568FLR-MMSFP+ Adapter
- HPE Ethernet 10Gb 2-port 562T Adapter
- HPE Ethernet 10Gb 2-port 562SFP+ Adapter
- HPE Ethernet 10Gb 2-port 562FLR-T Adapter
- HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter
- HPE Ethernet 10Gb 2-port 560SFP+ Adapter
- HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter
- HPE Ethernet 10Gb 2-port 568i Adapter
- HPE Ethernet 1Gb 4-port 369i Adapter
- HPE Ethernet 1Gb 4-port 366i Communication Board
- HPE Ethernet 1Gb 2-port 368i Adapter
- HP Ethernet 1Gb 2-port 363i Adapter
- HP Ethernet 1Gb 4-port 366i Adapter
- HP Ethernet 1Gb 2-port 361i Adapter
- HPE Ethernet 10Gb 2-port 568FLR-MMT Adapter

HPE QLogic FastLinQ Online Firmware Upgrade Utility for VMware

Version: 4.11.9 (Optional)

Filename: CP039777.compsig; CP039777.zip

Important Note!

HPE recommends *HPE QLogic FastLinQ 10/25/50GbE Multifunction Drivers for VMware*, versions 2019.12.20 or later, for use with this firmware.

This software package contains combo image v8.50.22. This combo image includes: Boot Code (MFW): 8.50.9.0, UEFI: 4.1.9.2 and PXE: 2.0.19. The users will only see the combo image versions in the interactive mode firmware update or while using HPSUM/SPP to update the firmware on the supported adapters.

Prerequisites

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

Fixes

This product addresses an issue where 2nd port reports "function type: disabled" with HPE Ethernet 10Gb 2-port 524SFP+ Adapter.

Enhancements

This product now remove supports Synergy and Blade Server.

Supported Devices and Features

This product supports the following network adapters:

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

HPE QLogic NX2 Online Firmware Upgrade Utility for VMware

Version: 1.26.30 **(Optional)**

Filename: CP043318.compsig; CP043318.zip

Important Note

HPE recommends HPE QLogic NX2 10/20GbE Multifunction Drivers for VMware, versions 2019.12.20 or later, for use with this firmware.

This software package contains combo image v7.18.27 with the following firmware versions:

NIC	Boot Code Version	PXE Version	UEFI Version	iSCSI Version	FCoE Version	CCM Version	L2 Version
HP Ethernet 10Gb 2-port 530SFP+ Adapter HP Ethernet 10Gb 2-port 530T Adapter	7.15.77	7.14.13	8.4.3	n/a	n/a	7.14.4	7.12.25
HP Ethernet 10Gb 2-port 533FLR-T Adapter HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter HPE FlexFabric 10Gb 4-port 536FLR-T Adapter HP StoreFabric CN1100R Dual Port Converged Network Adapter HPE StoreFabric CN1100R-T Converged Network Adapter	7.15.77	7.14.13	8.4.3	7.14.0	7.14.3	7.14.4	7.12.25

Prerequisites

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

Fixes

This product addresses an Overheat issue that system shuts down automatically due to NIC temperature exceeding threshold.

Supported Devices and Features

This product supports the following network adapters:

- HP Ethernet 10Gb 2-port 530SFP+ Adapter
- HP Ethernet 10Gb 2-port 530T Adapter
- HP Ethernet 10Gb 2-port 533FLR-T Adapter
- HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter
- HPE FlexFabric 10Gb 4-port 536FLR-T Adapter
- HP StoreFabric CN1100R Dual Port Converged Network Adapter
- HPE StoreFabric CN1100R-T Converged Network Adapter

Intel Online Firmware Upgrade Utility for VMware

Version: 3.12.10 **(Optional)**

Filename: CP041196.compsig; CP041196.zip

Important Note

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

NIC	EEPROM/NVM Version	OROM Version
HPE Ethernet 1Gb 4-port BaseT I350-T4 Adapter	80001099	1.2529.0
HPE Ethernet 1Gb 4-port BaseT I350-T4 OCP3 Adapter	80001097	1.2529.0
Intel(R) I350 Gigabit Backplane Connection	8000108E	1.2529.0
Intel(R) I350 Gigabit Network Connection	8000108F	1.2529.0

The combo image v1.2529.0 includes: Boot Agent: 1GbE - v1.5.88 & UEFI Drivers: 1GbE - v9.0.03.

Prerequisites

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

Enhancements

Initial release.

Supported Devices and Features

This package supports the following network adapters:

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

Marvell FastLinQ Online Firmware Upgrade Utility for VMware
 Version: 4.11.14 **(Optional)**
 Filename: CPO41147.compsig; CP041147.zip

Important Note!

This software package contains combo image v8.50.78. This combo image includes: Boot Code (MFW): 8.50.9.0 and UEFI: 6.1.6.9.

Prerequisites

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

Enhancements

Initial release.

Supported Devices and Features

This product supports the following network adapters:

- o HPE Ethernet 10/25Gb 2-port SFP28 QL41232HOCU OCP3 Adapter
- o HPE Ethernet 10/25Gb 2-port SFP28 QL41232HLCU Adapter
- o HPE Ethernet 10Gb 4-port SFP+ QL41134HLCU Adapter
- o HPE Ethernet 10Gb 2-port BaseT QL41132HLRJ Adapter
- o HPE Ethernet 10Gb 2-port BaseT QL41132HQRJ OCP3 Adapter
- o HPE Ethernet 10Gb 2-port SFP+ QL41132HOCU OCP3 Adapter
- o HPE Ethernet 10Gb 2-port SFP+ QL41132HLCU Adapter

Online Firmware Upgrade Utility (ESXi 6.5) for HPE Ethernet 10Gb 2-port 548SFP+ Adapter
 Version: 1.0.1 **(Recommended)**
 Filename: CP040053.compsig; CP040053.zip

Important Note!

Known Issues in firmware 14.26.XXXX :

- o Hardware arbitration is currently disabled in Open Compute Project (OCP)3.0 cards. It will be supported on future releases for the same hardware.
- o Secure state is not updated after firmware burning due to the following behavior.
- o By default, mixfwreset takes the lowest supported fwreset level. Changing to/from secure boot keeps the firmware versions the same except for when performing INI changes. As a result, the reset level 0 is set as the default value while resetting after burning. **Workaround:** Set the reset level to 3 explicitly in mixfwreset.
- o Since Packet Pacing enforce max_tc value is "1", features that require multiple Traffic Class (TC)s will not be active when this mode is available.

Fixes

Fixes in version 14.26.XXXX :

- o Fixed an issue that caused a function to misbehave when a PCIe Transaction Layer Packet (TLP) was set with a poisoned indication.
- o Fixed a rare issue that resulted in "destroy mkey " command getting stuck when rebooting the hypervisor.
- o The total firmware reset time is increased by 1 second.

Enhancements

Firmware for the following device is updated to 14.26.1040 :

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

Supported Devices and Features

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

Online Firmware Upgrade Utility (ESXi 6.5) for HPE Mellanox Ethernet only adapters
 Version: 1.0.6 **(Recommended)**
 Filename: CP040048.compsig; CP040048.zip

Important Note!

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

The latest version of Online Firmware Upgrade Utility (ESXi 6.5) for HPE Mellanox Ethernet only Mezzanine adapters 1.0.0 supported on HPE Synergy Servers is available on HPE support center, https://support.hpe.com/hpsc/swd/public/detail?swItemId=MTX_955f15089f6940debbd06394c9

Known Issues for FW version 2.42.5044 :

- o When using the QSFP module RTX320-581, and performing a driver restart for the firmware upgrade/downgrade to take effect, the link does not come up.
- o Enabling/disabling cq_timestamp using mixconfig is not supported.
- o In a card with 2 separate LEDs scheme (a Phy LED and a logic LED) only the Phy LED will lit. Meaning, the orange LES will not be active while the ETH link is in an idle mode.
- o In SR-IOV setup, using mixconfig when the PF is passed through to a VM requires a reboot of the Hypervisor.
- o Downgrade to previous GA requires server reboot. Downgrading from v2.30.8000 or later to an earlier version than 2.30.8000 requires server reboot. Reboot the server.
- o On ConnectX-3 Ethernet adapter cards, there is a mismatch between the GUID value returned by firmware management tools and that returned by fabric/driver utilities that read the GUID via device firmware (e.g., using ibstat). Mlxburn/flint return 0xffff as GUID while the utilities return a value derived from the MAC address. For all driver/firmware/software purposes, the latter value should be used.
- o SBR should be asserted for a minimum of 50 milliseconds for the ConnectX®-3 adapters

- o On Pilot1 SL230, PCIe link occasionally does not come up at Gen3 speed
- o RH6.3 Inbox driver causes kernel panic when SR-IOV is enabled on VPI cards due to driver compatibility issue.
- o In advanced steering mode, side band management connectivity may be lost when having more than 8 QP per mcg.
- o When SR-IOV is disabled in the system BIOS, a PCI issue is noticed in Ubuntu v12.04.3 with Linux kernel v3.8 which affects NICs of several manufacturers including Mellanox's, preventing them from operating.
- o MFT tools might leave the flash semaphore locked if the tool operation is forced stopped. The locked semaphore prevents the firmware from accessing the flash and causes firmware hang.
- o Cable Info MAD reports a wrong cable info when using the MC2210411-SR4 module
- o Gen2 failure at temperature sweep up to 10C/min (for MT27518A1-FDIR-BV only).
- o PCIe Gen2 link unstable at temperature sweep of 10C/min for MT27518A1-FDIR-BV
- o Bloom filter is currently not supported.
- o Firmware downgrade message When downgrading from firmware v2.11.0000 and using MFT 3.0.0-3
- o RM#DMFS should not be enabled when working with InfiniBand on MLNX_OFED-2.0.3
- o RM#VPD read-only fields are writable.
- o Increasing SymbolErrorCounter When working in VPI mode with port1 FDR and port2 40G, error counters misbehave and increase rapidly
- o Setting the device to 128Byte CQ/EQ stride will cause misbehavior of sideband management resulting in communication loss.
- o CQ and EQ cannot be configured to different stride sizes.
- o ConnectX-3 Pro VF device ID is presented the same as ConnectX-3 VF device ID due to driver limitations.
- o RSOD while running PXE (legacy) on G9 servers. This occurs only when PXE boot fails and BIOS boots from HDD. Currently it is pending BIOS fix.
- o Changing port protocol from ETH to IB on port with NCSI/IPMI enabled while the port is connected to ETH switch is not supported.
- o RDP over IPv6 is currently not functional.
- o Sniffer QP cannot be removed from the regular rule after adding the QP with insertion scheme equals to "push to that rule"
- o Since only a single Boot Entry Vector (BEV) per PCI Physical Function is supported, disabling the first port causes the second port to disappear as well.
- o The NIC does not notify the driver of a link-down incident when a cable is unplugged from a NIC port with 56GbE port link.
- o 56GbE link is not raised when using 100GbE optic cables.
- o When working with MLNX_OFED v3.3-1.0.0.0, server reboot could get stuck due to a kernel panic in mix-4_en_get_drvinfo() that is called from asynchronous event handler.
- o 832298: When running ibdump, loopback traffic is mirroring into the kernel driver.
- o AHS reports wrong MTU size
- o RM#846523: MAC address that are set from the OS using ifconfig are not reflected in the OCBB buffer

Known Issues for FW version 14.26.1040 :

- o Hardware arbitration is currently disabled in OCP3.0 cards. It will be supported on future releases for the same hardware.
- o Secure state is not updated after firmware burning due to the following behavior.
- o Since Packet Pacing enforce max_tc value is "1", features that require multiple TCs will not be active when this mode is available.
- o Due to performance considerations, unicast loopback traffic will go through the NIC SX tables, and multicast loopback traffic will skip the NIC SX tables.

Known Issues for FW version 16.26.1040 :

- o Occasionally Bluescreen might occur when using mixfwreset for Socket Direct devices on Windows.
- o SX_RDMA is not supported when Dual Port RoCE feature is enabled. Due to this behavior, packets sent on other port are processed by the SX_RDMA table.
- o Hardware arbitration is currently disabled in OCP3.0 cards. It will be supported on future releases for the same hardware.
- o The sw_reset option is not supported when ATS is enabled.
- o When using the hairpin feature, and using VLAN strip or using the "modify esw vport context" command, the packets can have an incorrect VLAN header.
- o DC LAG can function only in case there is a single PF per port without any active VFs.
- o Due to performance considerations, unicast loopback traffic will go through the NIC SX tables, and multicast loopback traffic will skip the NIC SX tables.
- o Firmware asserts may occur when setting the PF_BAR2_SIZE value higher than the maximum supported size.

Fixes

Fixes submitted in version 2.42.5044 :

- o An issue that prevented the firmware from detecting a link_down event thus preventing the IB bond interface from going to a failover mode.

Fixes submitted in version 14.26.1040:

- o A function was misbehaving when a PCIe TLP was set with a poisoned indication.
- o The "destroy mkey" command was getting stuck when rebooting the hypervisor.
- o The total firmware reset time is increased by 1 second.

Fixes submitted in version 16.26.1040:

- o On rare occasions, when firmware coalesce Host stuck events occur, a async event might be delayed to be reported, and not be triggered until the next time the PCIe hangs on one of the hosts.
- o Unexpected queue pairs transitioned to error in lossy tests.
- o Limited the maximum amount of dumps created on a PF.
- o Renamed the GMP Mellanox Vendor Specific External Capability mask enum from IsDiagnosticCountersSupported to IsDiagnosticDataSupported.
- o Stability issues with RDMA over Converged Ethernet (RoCE) retransmissions under stress were affecting Zero-Touch-RoCE.
- o Fixed an issue that caused a function to misbehave when a PCIe Transaction Layer Packet (TLP) was set with a poisoned indication.
- o Large number of packets dropped when running Jumbo frames with TTL rewrite.
- o Limited the number of the elements in the Quality of Service (QoS) tree 2K.
Note: Creating more than 250 Vport_tc for every TC is not allowed.
- o Queue Pair (QP) flow query was always taking port 1, Firmware will now reply the proper port, 1 or 2, for the dual port RoCE net device.
- o The nack counters constantly reported as "0".
- o In a rare scenario when the driver is executing the "zerr" command and the QP is in Send Queue (SQ) drain state, the firmware might post event of broken Work Queue (WQ) instead of sending error Completion Queue Element (CQEs) on all the Work Queue Entry (WQEs).

Enhancements

Firmware for the following devices are updated to 2.42.5044 :

779799-B21 (HP Ethernet 10G 2-port 546FLR-SFP+ Adapter)
779793-B21 (HP Ethernet 10G 2-port 546SFP+ Adapter)

Firmware for the following devices are updated to 14.26.1040:

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

Firmware for the following devices are updated to 14.26.1040 :

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

Firmware for the following device is updated to 16.26.1040 :

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

New features and changes in version 14.26.1040 and 16.26.1040 :

- o Enabled the firmware by using the ICMD commands to deal with diagnostic counters similar to cmdif.
- o The ICMD Query Caps indicate support and expose the list of the supported counters.
- o Enabled a new feature User Context Object (DEVX) which is a containerized sandbox per user, to access PRM command securely by using General Object commands, UMEM and UCTX contexts. The allowed functionalities of this capability depend on the user permissions.
- o Support for reporting the supported affiliated and unaffiliated asynchronous events to DEVX users through the command interface.
- o Zero-Touch-RoCE counters are now available to the user for debuggability purposes when using the Zero-Touch-RoCE feature.
- o Reliability improvements and security hardening enhancements were done.

New features and changes in version 16.26.1040 :

- o Added support for the following features:
 - Address Translation Service (ATS) support for MKEY and UMEM.
 - Exposing the VPD on the VF.
 - Hairpin Drop Counter.
 - Hairpin and TM RNDV QPs to work with DevX.
 - Creating software managed steering tables in eSwitch/FDB.

Supported Devices and Features

HPE Part Number	Mellanox Ethernet Only Adapters	PSID
779793-B21	HP Ethernet 10Gb 2-port 546SFP+ Adapter	HP_1200111023
779799-B21	HP Ethernet 10Gb 2-port 546FLR-SFP+ Adapter	HP_2240110004
817749-B21	HPE Ethernet 25Gb 2-port 640FLR-SFP28 Adapter	HP_2690110034
817753-B21	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	HP_2420110034
874253-B21	HPE Ethernet 100Gb 1-port 842QSFP28 Adapter	HPE000000014

Online Firmware Upgrade Utility (ESXi 6.5) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX4 and ConnectX5 devices on VMware ESXi 6.5

Version: 1.0.5 (Recommended)

Filename: CP039801.compsig; CP039801.zip

Important Note!

Known Issues in firmware 12.26.1040:

- o Secure state is not updated after firmware burning due to the following behavior.
By default, mixfwreset takes the lowest supported fwreset level. Changing to/from secure boot keeps the firmware versions the same except for when performing INI changes. As a result, the reset level 0 is set as the default value while resetting after burning.
Workaround: Set the reset level to 3 explicitly in mixfwreset.
- o Since Packet Pacing enforce max_tc value is "1", features that require multiple TCs will not be active when this mode is available.
- o Due to performance considerations, unicast loopback traffic will go through the NIC SX tables, and multicast loopback traffic will skip the NIC SX tables.

Known Issues in firmware 16.26.1040:

- o Occasionally Bluescreen might occur when using mixfwreset for Socket Direct devices on Windows.
- o SX_RDMA is not supported when Dual Port RoCE feature is enabled. Due to this behavior, packets sent on other port are processed by the SX_RDMA table.
Workaround: Use SX_RDMA with Dual Port GVMi instead.
- o Hardware arbitration is currently disabled in OCP3.0 cards. It will be supported on future releases for the same hardware.
- o The sw_reset option is not supported when ATS is enabled.
- o When using the hairpin feature, and using VLAN strip or using the "modify esw vport context" command, the packets can have an incorrect VLAN header. Meaning, using VLAN push/pop may not work properly when using vport context VLAN.
The features that may be affected by this and not work properly are:
 - Host chaining
 - Mirroring in FDB
 - TTL modify in FDB
 - VGT+
- o DC LAG can function only in case there is a single PF per port without any active VFs.
- o Due to performance considerations, unicast loopback traffic will go through the NIC SX tables, and multicast loopback traffic will skip the NIC SX tables.
- o Firmware asserts may occur when setting the PF_BAR2_SIZE value higher than the maximum supported size (maximum PF_BAR2_SIZE is 4 for).
Workaround: Configure within limits (NIC PF_BAR_SIZE <= 4).
- o CWDm4 AOM cable is currently not supported.

Fixes

Fixes submitted in version 12.26.1040:

- o IPoIB could not to function when there were Dynamically Connected Transport (DC) CNAK Queue Pairs (QPs) active.
- o On rare occasions, when firmware coalesce Host stuck events occur, a async event might be delayed to be reported, and not be triggered until the next time the PCIe hangs on one of the hosts.
- o Renamed the GMP Mellanox Vendor Specific External Capability mask enum from IsDiagnosticCountersSupported to IsDiagnosticDataSupported.
- o Fixed an issue that caused a function to misbehave when a PCIe Transaction Layer Packet (TLP) was set with a poisoned indication.

Fixes submitted in version 16.26.1040:

- o On rare occasions, when firmware coalesce Host stuck events occur, a async event might be delayed to be reported, and not be triggered until the next time the PCIe hangs on one of the hosts.
- o Unexpected queue pairs transitioned to error in lossy tests.
- o Limited the maximum amount of dumps created on a PF.
- o Renamed the GMP Mellanox Vendor Specific External Capability mask enum from IsDiagnosticCountersSupported to IsDiagnosticDataSupported.
- o Stability issues with RDMA over Converged Ethernet (RoCE) retransmissions under stress were affecting Zero-Touch-RoCE.
- o Fixed an issue that caused a function to misbehave when a PCIe Transaction Layer Packet (TLP) was set with a poisoned indication.
- o Large number of packets dropped when running Jumbo frames with TTL rewrite.
- o Limited the number of the elements in the Quality of Service (QoS) tree 2K.
Note: Creating more than 250 Vport_tc for every TC is not allowed.
- o Queue Pair (QP) flow query was always taking port 1, Firmware will now reply the proper port, 1 or 2, for the dual port RoCE net device.
- o The nack counters constantly reported as "0".
- o In a rare scenario when the driver is executing the "zerr" command and the QP is in Send Queue (SQ) drain state, the firmware might post event of broken Work Queue (WQ) instead of sending error Completion Queue Element (COEs) on all the Work Queue Entry (WQEs).

Enhancements

Firmware for the following devices are updated to 12.26.1040:

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

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

Firmware for the following devices are updated to 16.26.1040:

879482-B21 (HPE InfiniBand FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter)

872726-B21 (HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter)

Changes and New features in firmware version 12.26.1040 and 16.26.1040:

- o Enabled the firmware by using the ICMD commands to deal with diagnostic counters similar to cmdif. They can be called via the vsec space. The counters' values are returned only via the tracer. The ICMD Query Caps indicate support and expose the list of the supported counters.
- o User Context Object (DEVX) is a containerized sandbox per user, to access PRM command securely by using General Object commands, UMEM and UCTX contexts. The allowed functionalities of this capability depend on the user permissions.
The following functionalities are still managed by the Kernel:
 - Resource cleaning

- UCTX stamping
 - Blocking the physical address and IRQ from these UCTX
- Added support for reporting the supported affiliated and unaffiliated asynchronous events to DEVX users through the command interface.
- Zero-Touch-RoCE counters are now available to the user for debuggability purposes when using the Zero-Touch-RoCE feature.
- This release contains important reliability improvements and security hardening enhancements. Mellanox recommends upgrading your device firmware to this release to improve the device firmware security and reliability.

Changes and New features in firmware version 16.26.1040:

- Added support for the following features:
 - Address Translation Service (ATS) support for MKEY and UMEM.
 - Exposing the Vital Product Data (VPD) on Virtual Function (VF).
 - Hairpin Drop Counter.
 - Hairpin and TM RNDV QPs to work with DevX.
 - Creating software managed steering tables in eSwitch/Forwarding Table (FDB).

Supported Devices and Features

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

Online Firmware Upgrade Utility (ESXi 6.5) for HPE Mellanox VPI (Ethernet and Infiniband mode) devices on VMware ESXi 6.5

Version: 1.0.5 (**Recommended**)

Filename: CP042532.compsig; CP042532.zip

Important Note

Known Issues in firmware 2.42.5000, 2.42.5056:

- When using the Quad Small Form-factor Pluggable (QSFP) module RTX320-581, and performing a driver restart for the firmware upgrade/downgrade to take effect, the link does not come up.
 - Workaround:** Reboot the server.
- Enabling/disabling cq_timestamp using mlxconfig is not supported.
- In a card with 2 separate LEDs scheme (a Phy LED and a logic LED) only the Phy LED will lit. Meaning, the orange LED will not be active while the ETH link is in an idle mode.
- In SR-IOV setup, using mlxconfig when the Packet Filter (PF) is passed through to a VM requires a reboot of the Hypervisor.
- Downgrading from v2.30.8000 or later to an earlier version than 2.30.8000 requires server reboot.
 - Workaround:** Reboot the server.
- On ConnectX-3 Ethernet adapter cards, there is a mismatch between the GUID value returned by firmware management tools and that returned by fabric/ driver utilities that read the GUID via device firmware (e.g., using ibstat). Mixburn/flint return 0xffff as GUID while the utilities return a value derived from the MAC address. For all driver/firmware/software purposes, the latter value should be used.
 - Workaround:** Please use the GUID value returned by the fabric/driver utilities (not 0xffff).
- SBR should be asserted for a minimum of 50 milliseconds for the ConnectX-3 adapters.
- On Pilot1 SL230, PCIe link occasionally does not come up at Gen3 speed.
- RHEL6.3 Inbox driver causes kernel panic when SRIOV is enabled on VPI cards due to driver compatibility issue.
 - Workaround:** Set the "do_ sense=false" parameter in the [IB_TAB] i.
- In advanced steering mode, side band management connectivity may be lost when having more than 8 QP per mcg.
- When SR-IOV is disabled in the system BIOS, a PCI issue is noticed in Ubuntu v12.04.3 with Linux kernel v3.8 which affects NICs of several manufacturers including Mellanox's, preventing them from operating.
 - Workaround:** Enable SR-IOV in the BIOS.
- Mellanox Firmware Tools (MFT) might leave the flash semaphore locked if the tool operation is forced stopped. The locked semaphore prevents the firmware from accessing the flash and causes firmware hang.
 - Workaround:** Clear the semaphore using MFT command: 'flint -clear_semaphore'
- Cable Info MAD reports a wrong cable info when using the MC2210411-SR4 module.
- Gen2 failure at temperature sweep up to 10C/min (for MT27518A1-FDIR-BV only)..
- PCIe Gen2 link unstable at temperature sweep of 10C/min for MT27518A1-FDIR-BV.
- Bloom filter is currently not supported.
- When downgrading from firmware v2.11.0000 and using MFT 3.0.0-3, the following message is displayed due to the mlxconfig tool: You are trying to override configurable FW by non-configurable FW. If you continue, old FW configurations will be cleared, do you want to continue ? (y/n) [n] : y You are trying to restore default configuration, do you want to continue ? (y/n) [n] : y.
- DMFS should not be enabled when working with InfiniBand on MLNX_OFED-2.0.3
- ConnectX®-3 Pro VF device ID is presented the same as ConnectX®-3 VF device ID due to driver limitations.
 - Workaround:** Use the physical function device ID to identify the device.
- Virtual Product Data (VPD) read-only fields are writable.
 - Workaround:** Do not write to read-only fields if you wish to preserve them.
- When working in Virtual Path Identifier (VPI) mode with port1 FDR and port2 40G, error counters misbehave and increase rapidly.
- Setting the device to 128Byte CQ/EQ stride will cause misbehavior of sideband management resulting in communication loss.
- CQ and EQ cannot be configured to different stride sizes.
- Changing port protocol from ETH to IB on port with NCSI/IPMI enabled while the port is connected to ETH switch is not supported.
 - Workaround:** 1. Unplug the cable from the switch 2. Restart driver 3. Change the protocol via the appropriate tools.
- Adapter card MCX349A-XCCN may experience longer linkup times of a few seconds with specific switches.
- Adapter card MCX349A-XCCN does not respond to ethtool "identify" command (ethtool -p/--identify).
- Remote Desktop Protocol (RDP) over IPv6 is currently not functional.
 - Workaround:** Set the default RoCE mode in the software to RoCE v2 (also when not using RoCE)
- Sniffer QP cannot be removed from the regular rule after adding the QP with insertion scheme equals to "push to that rule".
- Since only a single Boot Entry Vector (BEV) per PCI Physical Function is supported, disabling the first port causes the second port to disappear as well.
- The NIC does not notify the driver of a link-down incident when a cable is unplugged from a NIC port with 56GbE port link.
- 56GbE link is not raised when using 100GbE optic cables.
- When working with MLNX_OFED v3.3-1.0.0.0, server reboot could get stuck due to a kernel panic in mlx4_en_get_drvinfo() that is called from asynchronous event handler.
- When running ibdump, loopback traffic is mirroring into the kernel driver.
- MAC address that are set from the OS using ifconfig are not reflected in the OCEB buffer.
- The adapter card cannot raise a 10G link vs. a 40GE capable switch port in C7000 enclosure. It can raise a 1G Link and only if the switch port allows it.
- MTUSB communication via I2C header on primary I2C bus is supported only in live-fish mode.

Fixes

Fixes in version 2.42.5000:

- PortRcvPkts counter was prevented from being cleared after resetting it.
- The system Timed Out on the configuration cycle of the Virtual Functions (VFs) when more than 10 Virtual Functions performed FLR and the completion Time Out value was configured to a range of less than 16 msec.
- The server hangs and results in NMI when running "mlxftop -d mt4103_pci_cr0" while restarting the driver in parallel (from a different thread). In this case, the downstream bridge over the device reported completion timeout error.
- In flow_steering, BMC could not receive a ping over IPV6 after running bmc_reboot.
- While closing the HCA, the RX packet caused bad access to resources that did not exist, and consequently caused the QPCGW or the irisc to get stuck.
- The master SMLID and the LID was either 0 or 0xFFFF when the port was neither active nor armed.
- Ibdump could not capture all MADs packets.
- Link did not go up after reboot.
- Fixed a rare issue that cause the PCIe configuration cycle that arrived during the time of sw_reset to generate 2 completions.

- Network Controller Sideband Interface (NC-SI) did not work when adding the disable_static_steering_ini field in the ini file, due to memory allocation issue for this field in the scratchpad.

Fixes in version 2.42.5056:

- Fixed an issue that resulted in reading from invalid I/O address on handover from UEFI boot to OS boot, when a port was configured as InfiniBand on a VPI adapter device.

Enhancements

Firmware for the following devices are updated to 2.42.5000:

764282-B21
764286-B21

Firmware for the following devices are updated to 2.42.5056:

764283-B21
764284-B21
764285-B21

New features in firmware version 2.42.5000:

- Added support for the following features.
 - new TLV: CX3_GLOBAL_CONF to enable/disable timestamp on incoming packets through mlxconfig configuration.
 - User MAC configuration.
 - Automatically collecting mstdump before driver reset.
 - A mechanism to detect DEAD_IRISC (plastic) from TPT (iron) and raise an assert.
 - A new field is added to "set port" command which notifies the firmware what is the user_mtu size.
- Improved the debug ability for command timeout cases.

Supported Devices and Features

Supported Devices:

HP Part Number	Device Name	PSID
764282-B21	HP InfiniBand QDR/Ethernet 10Gb 2-port 544+M Adapter	HP_1350110023
764283-B21	HP InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+M Adapter	HP_1360110017
764284-B21	HP InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter	HP_1370110017
764285-B21	HP InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter	HP_1380110017
764286-B21	HP InfiniBand QDR/Ethernet 10Gb 2-port 544+FLR-QSFP Adapter	HP_1390110023

Online Firmware Upgrade Utility (ESXi 6.5) for Mellanox Open Ethernet cards

Version: 1.0.1 (**Recommended**)

Filename: CP042851.compsig; CP042851.zip

Important Note!

Known Issues in firmware 14.26.4012 and 14.26.6000:

- Due to the string DB not being updated after Live-Patch, the tracer cannot function after Live-Patch.
- Hardware arbitration is currently disabled in OCP3.0 cards. It will be supported on future releases for the same hardware.
- Since Packet Pacing enforce max_tc value is "1", features that require multiple TCs will not be active when this mode is available.
- Due to performance considerations, unicast loopback traffic will go through the NIC SX tables, and multicast loopback traffic will skip the NIC SX tables.

Known Issues in firmware 16.26.4012 and 16.26.6000:

- In rare cases, following a server powerup, a fatal error (device's health compromised) message might appear with ext_synd 0x8d1d. The error will be accompanied by a failure to use mlxconfig and in some cases flash burning tools.
- Due to the string DB not being updated after Live-Patch, the tracer cannot function after Live-Patch.
- Creating an NVMeoF offloaded target while running the LFWP flow may cause the device to become unstable.
- sw_reset action fails in case it is initiated during live-patch flow.
- Occasionally Bluescreen might occur when using mixfwreset for Socket Direct devices on Windows.
- SX_RDMA is not supported when Dual Port RoCE feature is enabled. Due to this behavior, packets sent on other port are processed by the SX_RDMA table.
- Hardware arbitration is currently disabled in OCP3.0 cards. It will be supported on future releases for the same hardware.
- The sw_reset option is not supported when ATS is enabled
- When using the hairpin feature, and using VLAN strip or using the "modify esw vport context" command, the packets can have an incorrect VLAN header.
- DC LAG can function only in case there is a single PF per port without any active VFs.
- Due to performance considerations, unicast loopback traffic will go through the NIC SX tables, and multicast loopback traffic will skip the NIC SX tables.
- Firmware asserts may occur when setting the PF_BAR2_SIZE value higher than the maximum supported size (maximum PF_BAR2_SIZE is 4).
- CWDm4 AOM cable is currently not supported
- PF_BAR2 and ATS cannot be enabled together, i.e. when PF_BAR2 is enabled, ATS cannot be enabled too.

Fixes

Fixes in version 14.26.6000 :

Fixed an issue that cause the firmware to hang when an FLR occurred at the same time as the teardown. As a result, the teardown flow took a lock, and never released it because it was being aborted by an FLR.

Fixes in version 14.26.4012 :

- Updated the firmware behavior to report PLDM version 1.1.0 regardless of whether Redfish was enabled or not.
- Enabled the option to prevent clock and capture CPLD GPIOs glitch upon firmware reset.
- Fixed an issue that caused a function to misbehave when a PCIe Traffic Light Protocol(TLP) was set with a poisoned indication.
- Fixed a rare issue that resulted in "destroy mkey " command getting stuck when rebooting the hypervisor.

Fixes in version 16.26.6000 :

- Fixed an issue that prevented PCI link from being established when the firmware was corrupted.
- Fixed an issue that triggered a firmware assert and resulted in a wrong deallocation of a resource when Packet Pacing was enabled, and a QP was being destroyed.
- Fixed an issue that cause the firmware to hang when an FLR occurred at the same time as the teardown. As a result, the teardown flow took a lock, and never released it because it was being aborted by an FLR.

Fixes in version 16.26.4012:

- Updated the firmware behavior to report PLDM version 1.1.0 regardless of whether Redfish was enabled or not.
- Enabled the option to prevent clock and capture CPLD GPIOs glitch upon firmware reset.
- Fixed an issue that slowed the firmware flows when executing many destroy XRO commands on an XRO that supported DC transport service.
- Fixed an issue that caused performance degradation when working in dual-port devices under bidirectional traffic stress.
- On rare occasions, when firmware coalesce Host stuck events occur, a async event might be delayed to be reported, and not be triggered until the next time the PCIe hangs on one of the hosts.
- Fixed an issue that resulted in unexpected queue pairs transitioned to error in lossy tests.
- Limited the maximum amount of dumps created on a Physical Function(PF).
- Renamed the GMP Mellanox Vendor Specific External Capability mask enum from IsDiagnosticCountersSupported to IsDiagnosticDataSupported.
- Fixed a stability issue in RoCE retransmissions under stress affecting Zero-Touch-RoCE.
- Fixed an issue that caused a function to misbehave when a PCIe TLP was set with a poisoned indication.
- Fixed an issue that caused large number of packet to drop when running Jumbo frames with Time to live (TTL) rewrite
- Limited the number of the elements in the QoS tree 2K. Creating more than 250 Vport_tc for every TC was not allowed
- Fixed the query QP flow. Instead of always taking port 1, FW will now reply the proper port, 1 or 2, for the dual port RDMA over Converged Ethernet(RoCE) net device.
- Fixed an issue that caused the nack counters to constantly be reported as "0".
- In a rare scenario when the driver was executing the "2err" command and th Queue pair(QP) was in SQ drain state, the firmware might post event of broken Work Queue (WQ) instead of sending error COEs on all the WOEs.

Enhancements

Firmware for the following devices is updated to 14.26.4012:

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

Firmware for the following devices is updated to 14.26.6000 :

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

Firmware for the following devices is updated to 16.26.4012:

P13188-B21 (HPE Ethernet 10/25Gb 2-port SFP28 MCX512F-ACAT Adapter)
P21927-B21 (HPE Ethernet 100Gb 2-Port QSFP28 MCX516A-CCAT Adapter)

Firmware for the following devices is updated to 16.26.6000:

P10112-B21 (HPE Ethernet 10/25Gb 2-port SFP28 MCX562A-ACAI OCP3 Adapter)

New features and changes in version 14.26.4012 and 16.26.4012 :

- Enabled the firmware by using the ICMD commands to deal with diagnostic counters similar to cmdif. They can be called via the vsec space. The counters' values are returned only via the tracer. The ICMD Query Caps indicate support and expose the list of the supported counters.
- Zero-Touch-RoCE counters are now available to the user for debuggability purposes when using the Zero-Touch-RoCE feature.
- Added Address Translation Service (ATS) support for MKEY and UMEM VPD Added support for exposing the VPD on the VF.
- Added support for the following
 - Reporting the supported affiliated and unaffiliated asynchronous events to DEVX users through the command interface.
 - Hairpin Drop Counter.
 - Hairpin and TM RNDV QPs to work with DevX.
 - creating software managed steering tables in eSwitch/FD

New features and changes in version 14.26.6000 and 16.26.6000 :

- Explicit Congestion Notification (ECN) is now automatically copied from the inner header to the outer header, unless defined otherwise in the SW steering. To disable this feature, need to write to the NV_SW_OFFLOAD_CONFIG file.
- The eth_link_down_counter now counts logical link downs as well

Supported Devices and Features

HPE Part Number	Mellanox Ethernet Only Adapters	PSID
P21930-B21	HPE Ethernet 10Gb 2-port SFP+ MCX4121A-XCHT Adapter	MT_0000000414
P11341-B21	HPE Ethernet 10Gb 2-port SFP+ MCX4621A-ACAB OCP3 Adapter	MT_0000000238
P13188-B21	HPE Ethernet 10/25Gb 2-port SFP28 MCX512F-ACHT Adapter	MT_0000000416
P10112-B21	HPE Ethernet 10/25Gb 2-port SFP28 MCX562A-ACAI OCP3 Adapter	MT_0000000241
P21927-B21	HPE Ethernet 100Gb 2-port QSFP28 MCX516A-CCHT Adapter	MT_0000000417

Firmware - NVDIMM

Firmware Package - 16GB NVDIMM-N DDR4-2666
Version: 1.04 (A) (**Recommended**)
Filename: nvdimm-16gb_1.04.fwpkg

Fixes

Initial release.

Enhancements

Initial release.

Firmware - Storage Controller

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

Version: 2.74 (E) (**Recommended**)

Filename: CP042003.compsig; CP042003.md5; CP042003.zip

Important Note!

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

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

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

Prerequisites

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

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

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

Fixes

The following fixes were incorporated in this version:

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

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

Supported Devices and Features

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

- HP Smart Array P841 Controller
- HP Smart Array P441 Controller
- HP Smart HBA H241
- HP Smart Array P741m Controller
- HPE Smart Array P408e-p Controller
- HPE Smart Array E208e-p Controller
- HPE Smart Array P408e-m Controller

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

Version: 0105 (**Recommended**)

Filename: CP041301.compsig; CP041301.md5; CP041301.zip

Important Note!

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

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

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

Prerequisites

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

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

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

Fixes

The following fixes were incorporated in this version:

- SAS drive LED behavior was corrected to align with the Smart Array specification, specifically:
 - The Activity LED of a sanitize erase drive now turns ON when connected.
 - The Array present LED now turns ON for the SAS drive.
 - The Activity LED now blinks on all drives during a SAS drive rebuild.
- The Serial Output Buffer (SOB) has a fixed sized for stored entries. Now, when the buffer is full, the oldest entries are cleared or committed to persistent storage (if available). For this reason, subsequent requests to read the SOB only retrieves new entries that have been logged since the last successful request to read the SOB.
- The drive activity LED has been changed to a function as described in the installation and maintenance guide.
- The reboot flag was changed to issue a hard reset, which enables the service delivery subsystem (ZPSDS) information be shared across (expanded across) the internal expanders to all devices attached.
- The drive activity LED on the SAS disk drives was changed to support the ACTIVE_LOW signal state. The ACTIVE_LOW signal state is the default operation state for most drives.
- The SCSI WRITE BUFFER MODE was changed from activate to soft reset. This change improves the host ability to detect and report whether the enclosure is going to perform a disruptive or non-disruptive activation after a firmware upgrade.
- With I/O module firmware v0105 and PQI firmware 2.02 , the slot power cycle issue has been resolved by changing the power cycle SES request to return a failure when a partner slot is not connected.

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

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

Online ROM Flash Component for ESXi (x86) - HPE Smart Array P824i-p MR Gen10
Version: 24.23.0-0042 **(Optional)**
Filename: CP036878.compsig; CP036878.zip

Enhancements

- Added support for the Apollo 4510 system

Online ROM Flash Component for VMware ESXi – HPE 12Gb/s SAS Expander Firmware for HPE Smart Array Controllers and HPE HBA Controllers
Version: 4.22 **(Recommended)**
Filename: CP040617.compsig; CP040617.zip

Important Note!

- Power cycle / cold reboot is required if firmware is upgraded from version 1.31 or earlier.

Fixes

- Fixes an issue where false Smart Carrier authentication errors may happen.

Online ROM Flash Component for VMware ESXi - HPE Apollo 2000 Gen10 Backplane Expander Firmware
Version: 1.00 (C) **(Optional)**
Filename: CP037611.compsig; CP037611.zip

Important Note!

Customers who already installed firmware version 1.00 do not need to update to 1.00 (C).

Enhancements

- Added support for VMware vSphere 6.7 OS

Online ROM Flash Component for VMware ESXi – HPE Apollo 2000 System - SAS Expander
Version: 1.52 **(Recommended)**
Filename: CP042554.compsig; CP042554.zip

Fixes

Fixed an issue in the HPE Apollo 2000 System SAS Expander FW where the HDD Zoning Table would be set to default after upgrading to 1.51

Please reference Customer Advisory [a00095304en_us](#).

Online ROM Flash Component for VMware ESXi – HPE Apollo 4200 Backplane Expander Firmware
Version: 1.78 (A) **(Optional)**
Filename: CP038813.compsig; CP038813.zip

Important Note!

- Power cycle / cold reboot is required if firmware is upgraded from version 1.03 or earlier.

Enhancements

- Added HPE Smart Array P824i-p controller support

Online ROM Flash Component for VMware ESXi - HPE Apollo 45xx Gen10 Backplane Expander Firmware
Version: 1.56 (D) **(Recommended)**
Filename: CP038103.compsig; CP038103.zip

Enhancements

- Added HPE Smart Array P824i-p controller support

Online ROM Flash Component for VMware ESXi – HPE Apollo 45xx Gen9 Backplane Expander Firmware
Version: 2.50 **(Optional)**
Filename: CP038042.compsig; CP038042.zip

Important Note!

- Please un-plug and re-plug the power cord to the server for firmware upgrade from version 1.03 or earlier to take effect.

Fixes

- Expander may reset during heavy SSACLI polling
- SATA drives may take longer to spin up, not be initially detected, and then hot add later. This can prevent system boot or affect the logical drive status.

Online ROM Flash component for VMware ESXi - HPE Dual 8GB microSD USB
Version: 1.3.2.215 (B) **(Recommended)**
Filename: CP037940.compsig; CP037940.zip

Fixes

- To show corresponding HPE Dual 8GB Micron SD part number in Agentless Management Service version 11.2.0 or later.

Online ROM Flash Component for VMware ESXi - HPE Express Bay Enablement Switch Card
Version: 1.78 (B) (**Optional**)
Filename: CP035193.zip

Important Note!

Customers who already have firmware version 1.78 installed do not need to update to 1.78(B).

- Power cycle / cold reboot is required after installation for updates to take effect.

Prerequisites

- The HP ProLiant iLO firmware version must be v2.20 or later. If the HP ProLiant iLO firmware is older than v2.20 you will receive the following error message:

Check dependency failed.

Current version: iLOx x.xx

Minimum version required: iLO4 2.20

The software will not be installed on this system because the required hardware is not present in the system or the software/firmware doesn't apply to this system

Enhancements

- Added VMware vSphere 6.7 OS support

Online ROM Flash Component for VMware ESXi - HPE SAS Expander Firmware for HPE D2500sb Storage Blade
Version: 2.02 (**Recommended**)
Filename: CP041629.compsig; CP041629.zip

Important Note!

- When using ESXi6.0 you must be at upgrade 3 or newer. The required SmartPQI driver is not present in earlier versions of the OS

Prerequisites

When using ESXi6.0 you must be at upgrade 3 or newer. The required SmartPQI driver is not present in earlier versions of the OS

Fixes

- Hard drives may not show up after a power cycle or hot plug when in bays 1 through 10

Online ROM Flash Component for VMware ESXi - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10
Version: 2.65 (**Critical**)
Filename: CP043368.compsig; CP043368.zip

Fixes

- Prevents a potential data inconsistency from occurring after experiencing an Unrecoverable Read Error (URE) on a drive configured in RAID 1/10/ADM Fault Tolerant Mode.
- Prevents a potential data inconsistency from occurring during initial configuration and operation of a volume configured in RAID 5/6/50/60 Fault Tolerant Mode.
 - For additional information regarding Compute and Storage platforms, reference [Customer Bulletin a00097210en_us](#).
- HPE does NOT recommend independently updating to Firmware Versions Newer than 1.99 for HPE Smart Array SR Gen10 Controllers on HPE SimpliVity Gen10 systems. For additional information regarding SimpliVity platforms, reference [Customer Bulletin a00097566en_us](#)

IMPORTANT: RAID 0 and drives in HBA Mode are not affected.

Online ROM Flash Component for VMware ESXi - Smart Array and Smart HBA H240ar, H240nr, H240, H241, H244br, P240nr, P244br, P246br, P440ar, P440, P441, P542D, P741m, P840, P840ar, and P841
Version: 7.00 (**Recommended**)
Filename: CP039996.compsig; CP039996.zip

Fixes

- Occasionally the drive will not accept any IO's after running Sanitize command for a period of time due to the FW being out of sync with the drive during that time
- Non-HPE drives could report "Task Set Full" due to the drives reaching the qdepth limit during heavy workload
- Raid volume is not discovered due to a bad drive consuming two slots during hotplug
- Data could become inaccessible when upgrading from firmware versions prior to 4.5x
- The controller could stop responding when executing a SCSI verify command due to a CPU exception
- The system could stop communicating due to an I/O command timeout
- While on HBA mode, a drive could stop responding due to an early allocated buffer release
- A SAS drive WWN is reported inaccurately due to an incorrect report causing the driver to be out of sync with the device
- If using a 4G module, the controller could stop responding due to the SSD Cache metadata exceeding its limits during a Backup
- SSD Smart Cache module become disabled due to a reduction in usable cache space

Enhancements

Add optimization for the iLO communication interface in order to have a more effective mechanism to check for ownership of the communication buffer

Online ROM Flash Component for VMware ESXi - Smart Array P220i, P222, P420i, P420, P421, P721m, and P822
Version: 8.32 (C) (**Recommended**)
Filename: CP039258.compsig; CP039258.zip

Enhancements

- Improved integration with Smart Update Manager. If target device was previously updated to firmware v 8.32, it is not necessary to update to v8.32(C).

Fixes

- The firmware updates could fail while SmartCache is enabled due to active I/O in the Smart Cache.
- The serial output of the expander could fail to be populated in the controller logs due to the buffer not being handled appropriately by the controller

Firmware - Storage Fibre Channel

HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 6.5
 Version: 2019.12.02 (**Recommended**)
 Filename: CP042606.compsig; CP042606.zip

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Important Note!

Release Notes:

[HPE StoreFabric Emulex Adapters Release Notes](#)

Beginning with software release 11.2, Fibre Channel (LightPulse) adapters and Converged Network adapters (OneConnect) have independent software kits.

It is highly recommended that you review the Broadcom Software Kit Migration User Guide for more detailed information regarding this change.

To obtain the guide:

1. Go to <http://www.hpe.com/support/manuals>
2. Using the HPE model number as your guide, enter the adapter model number in the Search products box, and then click > .

This document provides special instructions and considerations for using the driver kits for FC and CNA adapters.

Special cases include those in which pre-11.2 (original) drivers and applications are replaced by the new 11.2 drivers and applications, and cases in which inbox drivers are replaced by the new 11.2 out-of-box (OOB) drivers.

This Firmware package contains following firmware versions:

Adapter	Gen/Family/Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HP 81E 8Gb Single Port PCIe Fibre Channel Host Bus Adapter	Gen4 /LPE12000/8Gb	12.40a6	2.10X6	12.4.153.0	12.4.262.0
HP 82E 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter	Gen4 /LPE12000/8Gb	12.40a6	2.10X6	12.4.153.0	12.4.262.0
HP LPe1205A 8Gb Fibre Channel Host Bus Adapter for BladeSystem c-Class	Gen4 /LPE12000/8Gb	12.40a6	2.10X6	12.4.153.0	12.4.262.0
HP StoreFabric 84E 4-Port Fibre Channel Host Bus Adapter	Gen4 /LPE12000/8Gb	12.40a6	2.10X6	12.4.153.0	12.4.262.0
HP SN1000E 16Gb Dual Port Fibre Channel Host Bus Adapter	Gen5/LPE16000/16Gb	N/A	12.4.270.10	N/A	N/A
HP SN1000E 16Gb Single Port Fibre Channel Host Bus Adapter	Gen5/LPE16000/16Gb	N/A	12.4.270.10	N/A	N/A
HP SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter	Gen5/LPE16000/16Gb	N/A	12.4.270.10	N/A	N/A
HP SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter	Gen5/LPE16000/16Gb	N/A	12.4.270.10	N/A	N/A
HPE StoreFabric SN1100E 4P 16Gb Fibre Channel Host Bus Adapter	Gen5/LPE16000/16Gb	N/A	12.4.270.10	N/A	N/A
HP Fibre Channel 16Gb LPe1605 Mezz	Gen5/LPE16000/16Gb	N/A	12.4.270.10	N/A	N/A
HPE StoreFabric SN1200E 16Gb 2P FC HBA	Gen6/LPE31000/16Gb	N/A	12.4.270.14	N/A	N/A

HPE StoreFabric SN1200E 16Gb 1P FC HBA	Gen6/LPE31000/16Gb	N/A	12.4.270.14	N/A	N/A
HPE StoreFabric SN1600E 32Gb 2p FC HBA	Gen6/LPE32000/32Gb	N/A	12.4.270.14	N/A	N/A
HPE StoreFabric SN1600E 32Gb 1p FC HBA	Gen6/LPE32000/32Gb	N/A	12.4.270.14	N/A	N/A

Prerequisites

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

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

Fixes

Fix the following:

Where Host Bus Adapters reporting address NACKs (No Acknowledgements) from external temperature sensors.

Enhancements

We have separate components to update fibre channel and converged network adapters. This is a fibre channel update component.

Contains:

16/32 Gb HBA/Mezz universal boot 12.4.270.14
16 Gb HBA/Mezz universal boot 12.4.270.10

8 Gb standup/mezz firmware 2.10X6

8 Gb standup/mezz universal boot image 12.40a6 (12.4.262.0 BIOS, 12.4.153.0 UEFI)

Supported Devices and Features

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

8Gb FC:

- HP 81E 8Gb Single Port PCIe Fibre Channel Host Bus Adapter
- HP 82E 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- HP LPe1205A 8Gb Fibre Channel Host Bus Adapter for BladeSystem c-Class
- HP StoreFabric 84E 4-Port Fibre Channel Host Bus Adapter

LPe16000 (16Gb) FC:

- HP SN1000E 16Gb Dual Port Fibre Channel Host Bus Adapter
- HP SN1000E 16Gb Single Port Fibre Channel Host Bus Adapter
- HP SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter
- HP SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter
- HPE StoreFabric SN1100E 4P 16Gb Fibre Channel Host Bus Adapter
- HP Fibre Channel 16Gb LPe1605 Mezz

LPe31000/32000 (16Gb/32Gb) FC:

- HPE StoreFabric SN1200E 16Gb 2P FC HBA
- HPE StoreFabric SN1200E 16Gb 1P FC HBA
- HPE StoreFabric SN1600E 32Gb 2p FC HBA
- HPE StoreFabric SN1600E 32Gb 1p FC HBA

HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 6.5
Version: 2019.12.03 **(Recommended)**
Filename: CP042995.compsig; CP042995.zip

Important Note!

Refer release notes available at:

[HPE StoreFabric QLogic Adapter Release Notes](#)

This Firmware package contains following firmware versions:

Adapter	Gen/Speed	MBI	Firmware	UEFI	Boot Bios
HPE 81Q PCIe Fibre Channel Host Bus Adapter	Gen4/8Gb	3.81.05	8.08.206	7.00	3.56
HPE 82Q 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter	Gen4/8Gb	3.81.05	8.08.206	7.00	3.56
HPE StoreFabric 84Q 4P 8Gb Fibre Channel HBA	Gen4/8Gb	3.81.05	8.08.206	7.00	3.56
HPE QMH2572 8Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem	Gen4/8Gb	3.81.05	8.08.206	7.00	3.56
HPE QMH2672 16Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem	Gen5/16Gb	6.02.01	8.08.230	7.02	3.43
HPE StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter	Gen5/16Gb	6.02.01	8.08.230	7.02	3.43
HPE StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter	Gen5/16Gb	6.02.01	8.08.230	7.02	3.43

HPE StoreFabric SN1100Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter	Gen6/16Gb	1.73.08	8.08.230	7.02	3.64
HPE StoreFabric SN1100Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter	Gen6/16Gb	1.73.08	8.08.230	7.02	3.64
HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	Gen6/32Gb	1.73.08	8.08.230	7.02	3.64
HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	Gen6/32Gb	1.73.08	8.08.230	7.02	3.64
HPE SN1610Q 32Gb 2P FC HBA	Gen7/32Gb	02.02.18	09.02.20	7.08	0.0
HPE SN1610Q 32Gb 1P FC HBA	Gen7/32Gb	02.02.18	09.02.20	7.08	0.0

Prerequisites

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

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

The HPE supplied Qlogic driver must be installed prior to this firmware component being identified by SUM for deployment. The OOB driver is available on the Service Pack for ProLiant (SPP) which is available at <http://www.hpe.com/servers/spp/download/>

Fixes

Fixed the following:

In extremely rare cases, the following QLogic Fibre Channel (FC) Host Bus Adapters (HBAs), SN1100Q, SN1600Q and SN1610Q may cause the host Operating System (OS) to stop. Subsequent OS reboot may reveal some filesystem data is unavailable or inconsistent. Out of an abundance of caution, HPE updated the Firmware/BIOS/UEFI (Boot Image) packages for these adapters to eliminate possible exposure to this extremely rare but critical issue.

For more details please go through the document titled "HPE ProLiant, Synergy and Superdome Flex Host Bus Adapters (HBA) - Certain Fibre Channel HBA Firmware May Cause the Operating System to Halt and Potentially Compromise Filesystem Data Integrity" at the following link:

https://support.hpe.com/hpsc/public/docDisplay?docLocale=en_US&docId=a00094722en_us

Enhancements

Updated the Firmware/BIOS/UEFI packages for following:

- Gen4 Fibre Channel Host Bus Adapter:
 - Package 3.81.05
 - Firmware 8.08.206
 - UEFI 7.00
 - BIOS 3.56
- Gen5 Fibre Channel Host Bus Adapter:
 - Package 6.02.01
 - Firmware 8.08.230
 - UEFI 7.02
 - BIOS 3.43
- Gen6 Fibre Channel Host Bus Adapter:
 - Package 1.73.08
 - Firmware 8.08.230
 - UEFI 7.02
 - BIOS 3.64
- Gen7 Fibre Channel Host Bus Adapter:
 - Package 02.02.18
 - Firmware 09.02.20
 - UEFI 7.08
 - BIOS 0.0

Supported Devices and Features

This firmware supports the following HPE adapters:

Gen 4 Fibre Channel Host Bus Adapter:

- HPE 81Q PCIe Fibre Channel Host Bus Adapter
- HPE 82Q 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- HPE StoreFabric 84Q 4P 8Gb Fibre Channel HBA
- HPE QMH2572 8Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem

Gen 5 Fibre Channel Host Bus Adapter:

- HPE QMH2672 16Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem
- HPE StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter
- HPE StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter

Gen 6 Fibre Channel Host Bus Adapter:

- HPE StoreFabric SN1100Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter
- HPE StoreFabric SN1100Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter
- HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

Gen 7 Fibre Channel Host Bus Adapter:

- HPE SN1610Q 32Gb 2P FC HBA
- HPE SN1610Q 32Gb 1P FC HBA

Firmware (Entitlement Required) - Storage Controller

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

Version: 4.12 (Recommended)

Filename: CP036702.compsig; CP036702.md5; CP036702.zip

Important Note!

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

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

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

Prerequisites

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

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

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

Fixes

The following fix is incorporated in this version:

- The Enabled-Clusters2D command now completes successfully when executed on a SATA drive within a D3610 disk enclosure.

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

Enhancements

The following enhancement has been added in this version:

- Added support of VMware vsphere 6.7

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 :

- HP Smart Array P841 Controller
- HP Smart Array P441 Controller
- HP Smart HBA H241
- HP Smart Array P741m Controller
- HPE Smart Array P408e-p Controller
- HPE Smart Array E208e-p Controller
- HPE Smart Array P408e-m Controller
- HPE Smart Array P416ie-m Controller

Software - Management

HPE Management Bundle Smart Component for ESXi 6.5

Version: 2019.12.01 (**Recommended**)

Filename: cp040137.compsig; cp040137.zip

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Fixes

WBEM Providers

- Fix incorrect CacheOperationalStatus data for Smart Array B140i Controller
- Fix memory leak issues causing ESXi host to become unresponsive or crash

Agentless Management Service

- Fix buffer overrun when acquiring vib summary from ESXi host database
- Fix cpqSePciSlotBoardName for empty slots with no CPU
- Fix cpqSePciSlotBoardName for FC Adapters with specific Device IDs
- Disable multiple IPv6 support in Gen9 to fix Host discovery issues due to missing support in iLO
- Fix AMS hang when total IPv6 address string sizes exceed 256 bytes

Software - Storage Controller

HPE MegaRAID Storage Administrator StorCLI for VMware6.5

Version: 2019.09.00 (**Optional**)

Filename: cp040118.compsig; cp040118.zip

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Enhancements

Updated Product Name with the OS version.

Software - Storage Fibre Channel

Emulex Fibre Channel driver component for VMware vSphere 6.5

Version: 2019.12.02 (**Recommended**)

Filename: cp041713.compsig; cp041713.zip

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Important Note!

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

Beginning with software release 11.2, Fibre Channel (LightPulse) adapters and Converged Network adapters (OneConnect) have independent software kits.

It is highly recommended that you review the Broadcom Software Kit Migration User Guide for more detailed information regarding this change.

To obtain the guide:

1. Go to <http://www.hpe.com/support/manuals>

2. Using the HPE model number as your guide, enter the adapter model number in the Search products box, and then click >>.

This document provides special instructions and considerations for using the driver kits for FC and CNA adapters.

Special cases include those in which pre-11.2 (original) drivers and applications are replaced by the new 11.2 drivers and applications, and cases in which inbox drivers are replaced by the new 11.2 out-of-box (OOB) drivers.

Prerequisites

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

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

Beginning with software release 11.2, Fibre Channel (LightPulse) adapters and Converged Network adapters (OneConnect) have independent software kits.

It is highly recommended that you review the Broadcom Software Kit Migration User Guide for more detailed information regarding this change.

To obtain the guide:

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Special cases include those in which pre-11.2 (original) drivers and applications are replaced by the new 11.2 drivers and applications, and cases in which inbox drivers are replaced by the new 11.2 out-of-box (OOB) drivers.

Enhancements

Updated to Driver version 12.4.270.6

Supported Devices and Features

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

8Gb FC:

- HP 81E 8Gb Single Port PCIe Fibre Channel Host Bus Adapter
- HP 82E 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- HP LPe1205A 8Gb Fibre Channel Host Bus Adapter for BladeSystem c-Class
- HP StoreFabric 84E 4-Port Fibre Channel Host Bus Adapter

LPe16000 (16Gb) FC:

- HP SN1000E 16Gb Dual Port Fibre Channel Host Bus Adapter
- HP SN1000E 16Gb Single Port Fibre Channel Host Bus Adapter
- HP SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter
- HP SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter
- HPE StoreFabric SN1100E 4P 16Gb Fibre Channel Host Bus Adapter
- HP Fibre Channel 16Gb LPe1605 Mezz

LPe31000/32000 (16Gb/32Gb) FC:

- HPE StoreFabric SN1200E 16Gb 2P FC HBA
- HPE StoreFabric SN1200E 16Gb 1P FC HBA
- HPE StoreFabric SN1600E 32Gb 2p FC HBA
- HPE StoreFabric SN1600E 32Gb 1p FC HBA

Emulex(BRCM) Fibre Channel over Ethernet driver for VMware vSphere 6.5

Version: 2019.12.01 (**Recommended**)

Filename: cp039585.compsig; cp039585.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 vibspot.hpe.com webpages, plus an HPE specific CPXXXX.xml file.

Beginning with software release 11.2, Fibre Channel (LightPulse) adapters and Converged Network adapters (OneConnect) have independent software kits.

It is highly recommended that you review the Broadcom Software Kit Migration User Guide for more detailed information regarding this change.

To obtain the guide:

1. Go to <http://www.hpe.com/support/manuals>
2. Using the HPE model number as your guide, enter the adapter model number in the Search products box, and then click >>.

This document provides special instructions and considerations for using the driver kits for FC and CNA adapters.

Special cases include those in which pre-11.2 (original) drivers and applications are replaced by the new 11.2 drivers and applications, and cases in which inbox drivers are replaced by the new 11.2 out-of-box (OOB) drivers.

If the server contains only CNA adapters and lpfc driver is already been installed, post the new driver update, please remove the lpfc driver using the following command:

```
#esxcli software vib remove lpfc
```

Prerequisites

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

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

Beginning with software release 11.2, Fibre Channel (LightPulse) adapters and Converged Network adapters (OneConnect) have independent software kits.

It is highly recommended that you review the Broadcom Software Kit Migration User Guide for more detailed information regarding this change.

To obtain the guide:

1. Go to <http://www.hpe.com/support/manuals>
2. Using the HPE model number as your guide, enter the adapter model number in the Search products box, and then click >>.

This document provides special instructions and considerations for using the driver kits for FC and CNA adapters.

Special cases include those in which pre-11.2 (original) drivers and applications are replaced by the new 11.2 drivers and applications, and cases in which inbox drivers are replaced by the new 11.2 out-of-box (OOB) drivers.

If the server contains only CNA adapters and lpfc driver is already been installed, post the new driver update, please remove the lpfc driver using the following command:

```
#esxcli software vib remove lpfc
```

Fixes

Fixed the following:

- o Purple Screen of Death(PSOD) at random intervals on HPE FlexFabric 20Gb 2-port 650FLB Adapter
- o Link down after 1000 times port down and up iterations on switch.
- o Detaching is not completing because lpfc_do_work_event can't exit.
- o Slab memory use after free causing memory leak.
- o Small Computer Sytem Interface(SCSI) command is used after done call.
- o Target reset does not report original status

Enhancements

Updated to Driver version 12.0.1278.0

Supported Devices and Features

This component is supported on following Emulex Converged Network Adapters:

XE100 Series:

- HPE StoreFabric CN1200E Dual Port Converged Network Adapter
- HPE FlexFabric 20Gb 2-port 650FLB Adapter
- HPE FlexFabric 20Gb 2-port 650M Adapter
- HPE StoreFabric CN1200E-T Adapter

QLogic Fibre Channel driver component for VMware vSphere 6.5

Version: 2019.12.02 (**Recommended**)

Filename: cp042818.compsig; cp042818.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 vib depot.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/>

Fixes

Fixed the following:

Driver run into a Purple Screen of Death (PSOD) after Invalid entry, prints in the vmkernel log:

```
"WARNING: qlnativefc: vmhba2(12:0:0): Invalid ISP SCSI completion handle(281) req=1
```

```
WARNING: qlnativefc: vmhba2(12:0:0): Invalid ISP SCSI completion handle(282) req=1"
```

Enhancements

Driver version 2.1.96.0

Supported Devices and Features

This driver supports the following HPE adapters:

Gen 4 Fibre Channel Host Bus Adapter:

- o HPE 81Q PCIe Fibre Channel Host Bus Adapter
- o HPE 82Q 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric 84Q 4P 8Gb Fibre Channel HBA
- o HPE QMH2572 8Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem

Gen 5 Fibre Channel Host Bus Adapter:

- o HPE QMH2672 16Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem
- o HPE StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter

Gen 6 Fibre Channel Host Bus Adapter:

- o HPE StoreFabric SN1100Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1100Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

Gen 7 Fibre Channel Host Bus Adapter:

- o HPE SN1610Q 32Gb 2P FC HBA
- o HPE SN1610Q 32Gb 1P FC HBA

Software - System Management

HPE MegaRAID Storage Administrator StorCLI for VMware

Version: 1.25.12 (**Optional**)

Filename: vmware-esx-storcli-1.25.12.vib; VMWARE_MN_NDS_Readme.txt

Enhancements

- Added support for the Apollo 4510 system

HPE MegaRAID Storage Administrator StorCLI for VMware
Version: 1.25.12 (**Recommended**)
Filename: storcli-esxi6.5-bundle-1.25.12.zip

Enhancements

Initial release

HPE Offline Bundle for ESXi 6.5
Version: 3.5.0 (**Recommended**)
Filename: esxi6.5uX-mgmt-bundle-3.5.0-12.zip

Fixes

WBEM Providers

- Fix incorrect CacheOperationalStatus data for Smart Array B140i Controller
- Fix memory leak issues causing ESXi host to become unresponsive or crash

Agentless Management Service

- Fix buffer overrun when acquiring vib summary from ESXi host database
- Fix cpqSePciSlotBoardName for empty slots with no CPU
- Fix cpqSePciSlotBoardName for FC Adapters with specific Device IDs
- Disable multiple IPv6 support in Gen9 to fix Host discovery issues due to missing support in iLO
- Fix AMS hang when total IPv6 address string sizes exceed 256 bytes

Supported Devices and Features

VMware vSphere version support:

- VMware vSphere 6.5 U2
- VMware vSphere 6.5 U3

HPE Smart Storage Administrator (HPE SSA) CLI for VMware 6.5
Version: 4.17.6.0 (**Optional**)
Filename: ssaccli-4.17.6.0-6.5.0.vib

Fixes

Split Mirror Primary Array's Acceleration Mode displays an invalid message that indicates caching can be enabled or disabled for each individual logical drive even if the array does not contain a logical drive that can have caching enabled.

HPE Utilities Offline Bundle for ESXi 6.5
Version: 3.5.5 (**Recommended**)
Filename: esxi6.5-util-bundle-3.5.5-3.zip; relnotes.txt

Important Note

Refer to the HPE VMware Utilities Guide for VMware vSphere 6.5 U3 which is located at [HPE Information Library](#).

Enhancements

Updated the Smart Storage Administrator CLI (SSACLI)

Integrated Smart Update Tools for VMware ESXi 6.5
Version: 2.5.0.0 (**Recommended**)
Filename: sut-esxi6.5-offline-bundle-2.5.0.0-73.zip

Important Note

Integrated Smart Update Tools for ESXi 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

Updated from 2.4.5

Integrated Smart Update Tools for VMware ESXi 6.7
Version: 2.5.0.0 (**Recommended**)
Filename: sut-esxi6.7-offline-bundle-2.5.0.0-75.zip

Important Note

Integrated Smart Update Tools for ESXi 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

Updated from iSUT 2.4.5

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Updated March 30 2020

