Release Notes for Gen11 Service Pack for ProLiant, v2023.04.00.00

BIOS - System ROM Top

Online ROM Flash Component for Windows x64 - HPE Alletra 4110/Alletra 4120/HPE ProLiant DL380a Gen11 (U58) Servers
Version: 1.30_03-01-2023 **(Recommended)**
Filename: cp055275.exe; cp055275_part1.compsig; cp055275_part2.compsig

Important Note!

Important Notes:

None

Deliverable Name:

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

Release Version:

1.30_03-01-2023

Last Recommended or Critical Revision:

1.30_03-01-2023

Previous Revision:

1.24_03-03-2023

Firmware Dependencies:

None

Enhancements/New Features:

Added capability to support 4th Gen Intel Xeon Scalable Processors 4S.

Enhanced PCI information in Active Health System log.

Problems Fixed:

Addressed an issue where the Always Power On function would remain off when factory defaults are loaded.

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver" (CHIF) for Windows which is available from Service Pack for ProLiant (SPP).

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the Always Power On function would remain off when factory defaults are loaded.

Known Issues:

None

Enhancements

Added capability to support 4th Gen Intel Xeon Scalable Processors 4S.

Enhanced PCI information in Active Health System log.

Online ROM Flash Component for Windows x64 - HPE ProLiant DL320/ML110 Gen11 (U63) Servers
Version: 1.30_03-01-2023 **(Recommended)**
Filename: cp055738.exe; cp055738_part1.compsig; cp055738_part2.compsig

Important Note!

Important Notes:

None

Deliverable Name:

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

Release Version:

1.30_03-01-2023

Last Recommended or Critical Revision:

1.30_03-01-2023

Previous Revision:

1.24_03-03-2023

Firmware Dependencies:

None

Enhancements/New Features:

Added capability to support 4th Gen Intel Xeon Scalable Processors 4S.

Enhanced PCI information in Active Health System log.

Problems Fixed:

Addressed an issue where the Always Power On function would remain off when factory defaults are loaded.

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver" (CHIF) for Windows which is available from Service Pack for ProLiant (SPP).

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the Always Power On function would remain off when factory defaults are loaded.

Known Issues:

None

Enhancements

Added capability to support 4th Gen Intel Xeon Scalable Processors 4S.

Enhanced PCI information in Active Health System log.

Filename: cp050030.exe; cp050030_part1.compsig; cp050030_part2.compsig

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant DL560 Gen11 System ROM - U59

Release Version:

1.30_03-01-2022

Last Recommended or Critical Revision:

This is the initial version of the firmware.

Previous Revision:

This is the initial version of the firmware.

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial version of the firmware.

Problems Fixed:

None

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver" (CHIF) for Windows which is available from Service Pack for ProLiant (SPP).

Enhancements

Important Notes:

None

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial version of the firmware.

Known Issues:

None

Online ROM Flash Component for Windows x64 - HPE ProLiant ML350/DL360/DL380 Gen11 (U54) Servers
Version: 1.30_03-01-2023 **(Recommended)**
Filename: cp055744.exe; cp055744_part1.compsig; cp055744_part2.compsig

Important Note!

Important Notes:

None

Deliverable Name:

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

Release Version:

1.30_03-01-2023

Last Recommended or Critical Revision:

1.30_03-01-2023

Previous Revision:

1.24_03-03-2023

Firmware Dependencies:

None

Enhancements/New Features:

Added capability to support 4th Gen Intel Xeon Scalable Processors 4S.

Enhanced PCI information in Active Health System log.

Problems Fixed:

Addressed an issue where the Always Power On function would remain off when factory defaults are loaded.

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver" (CHIF) for Windows which is available from Service Pack for ProLiant (SPP).

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the Always Power On function would remain off when factory defaults are loaded.

Known Issues:

None

Enhancements

Added capability to support 4th Gen Intel Xeon Scalable Processors 4S.

Enhanced PCI information in Active Health System log.

BIOS (Login Required) - System ROM Top

Online ROM Flash Component for Linux - HPE Alletra 4110/Alletra 4120/HPE ProLiant DL380a (U58) Servers
Version: 1.30_03-01-2023 **(Recommended)**
Filename: RPMS/x86_64/firmware-system-u58-1.30_2023_03_01-1.1.x86_64.rpm; RPMS/x86_64/firmware-system-u58-1.30_2023_03_01-1.1.x86_64_part1.compsig; RPMS/x86_64/firmware-system-u58-1.30_2023_03_01-1.1.x86_64_part2.compsig

Important Note!

Important Notes:

None

Deliverable Name:

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

Release Version:

1.30_03-01-2023

Last Recommended or Critical Revision:

1.30_03-01-2023

Previous Revision:

1.24_03-03-2023

Firmware Dependencies:

None

Enhancements/New Features:

Added capability to support 4th Gen Intel Xeon Scalable Processors 4S.

Enhanced PCI information in Active Health System log.

Problems Fixed:

Addressed an issue where the Always Power On function would remain off when factory defaults are loaded.

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver" (CHIF) for Linux which is integrated into the standard Linux kernel.

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the Always Power On function would remain off when factory defaults are loaded.

Known Issues:

None

Enhancements

Added capability to support 4th Gen Intel Xeon Scalable Processors 4S.

Enhanced PCI information in Active Health System log.

Online ROM Flash Component for Linux - HPE ProLiant DL110 Gen11 (U62) Servers
Version: 1.30_03-01-2023 **(Recommended)**
Filename: RPMS/x86_64/firmware-system-u62-1.30_2023_03_01-1.1.x86_64.rpm; RPMS/x86_64/firmware-system-u62-1.30_2023_03_01-1.1.x86_64_part1.compsig; RPMS/x86_64/firmware-system-u62-1.30_2023_03_01-1.1.x86_64_part2.compsig

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant DL110 Gen11 System ROM - U62

Release Version:

1.30_03-01-2023

Last Recommended or Critical Revision:

This is the initial version of the firmware.

Previous Revision:

This is the initial version of the firmware.

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial version of the firmware.

Problems Fixed:

None

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver" (CHIF) for Linux which is integrated into the standard Linux kernel.

Enhancements

Important Notes:

None

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial version of the firmware.

Known Issues:

None

Online ROM Flash Component for Linux - HPE ProLiant DL320/ML110 Gen11 (U63) Servers
Version: 1.30_03-01-2023 **(Recommended)**
Filename: RPMS/x86_64/firmware-system-u63-1.30_2023_03_01-1.1.x86_64.rpm; RPMS/x86_64/firmware-system-u63-1.30_2023_03_01-1.1.x86_64_part1.compsig; RPMS/x86_64/firmware-system-u63-1.30_2023_03_01-1.1.x86_64_part2.compsig

Important Note!

Important Notes:

None

Deliverable Name:

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

Release Version:

1.30_03-01-2023

Last Recommended or Critical Revision:

1.30_03-01-2023

Previous Revision:

1.24_03-03-2023

Firmware Dependencies:

None

Enhancements/New Features:

Added capability to support 4th Gen Intel Xeon Scalable Processors 4S.

Enhanced PCI information in Active Health System log.

Problems Fixed:

Addressed an issue where the Always Power On function would remain off when factory defaults are loaded.

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver" (CHIF) for Linux which is integrated into the standard Linux kernel.

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the Always Power On function would remain off when factory defaults are loaded.

Known Issues:

None

Enhancements

Added capability to support 4th Gen Intel Xeon Scalable Processors 4S.

Enhanced PCI information in Active Health System log.

Online ROM Flash Component for Linux - HPE ProLiant DL325/DL345 Gen11 (A56) Servers
Version: 1.22_01-19-2023 **(Recommended)**
Filename: RPMS/x86_64/firmware-system-a56-1.22_2023_01_19-1.1.x86_64.rpm; RPMS/x86_64/firmware-system-a56-1.22_2023_01_19-1.1.x86_64_part1.compsig; RPMS/x86_64/firmware-system-a56-1.22_2023_01_19-1.1.x86_64_part2.compsig

Important Note!

Important Notes:

None

Deliverable Name:

HPE DL325 Gen11/DL345 Gen11 Server System ROM - A56

Release Version:

1.22_01-19-2023

Last Recommended or Critical Revision:

1.22_01-19-2023

Previous Revision:

1.20_01-06-2023

Firmware Dependencies:

None

Enhancements/New Features:

Add new System Configuration (RBSU) configuration options that allow controlling the processor's P0 (maximum) frequency. This includes the "Custom Pstate0" option with settings of "Auto" (default) and "Manual" and the "Pstate0 Frequency(MHz)" option that allows setting the P0 frequency. When the "Custom Pstate0" option is configured for "Manual", the value of the "Pstate0 Frequency(MHz)" is used for the processor's P0 frequency. When the "Custom Pstate0" option is configured for "Auto", the processor uses its normal, maximum P0 frequency and the "Pstate0 Frequency(MHz)" option is not configurable. In System Configuration (RBSU), these options are located under the BIOS/Processor Options. This setting has the following Redfish properties:
/redfish/v1/systems/1/bios/settings/CustomPstate0
/redfish/v1/systems/1/bios/settings/Pstate0Frequency

Remove the System Configuration (RBSU) option for "Memory Interleaving Mode". This option is no longer configurable because AMD recommends always enabling this capability for maximum performance. Memory Interleaving will always be enabled with this revision or later of the System ROM no matter how this option had been previously configured. In System Configuration (RBSU), this option had previously been located under the Memory Options. This setting had the following Redfish properties: /redfish/v1/systems/1/bios/settings/AmdMemoryInterleaving

Problems Fixed:

Addressed an issue where system may hang at POST during TPM measurement after restoring manufacturing defaults.

Address an issue where the RegistryVersion format in the URI redfish/v1/registrystore/registries did not follow the Redfish Specification. If scripts were written to conform with the incorrect format in

previous System ROMs, those scripts may need to be modified to follow the correct, Redfish compliant format which is implemented in this System ROM revision and later.

Addressed an issue where the System Configuration (RBSU) option "Access Control Service" did not disable PCIe Access Control Service when it’s set to disabled.

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver” (CHIF) for Linux which is integrated into the standard Linux kernel.

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where system may hang at POST during TPM measurement after restoring manufacturing defaults.

Address an issue where the RegistryVersion format in the URI redfish/v1/registrystore/registries did not follow the Redfish Specification. If scripts were written to conform with the incorrect format in previous System ROMs, those scripts may need to be modified to follow the correct, Redfish compliant format which is implemented in this System ROM revision and later.

Addressed an issue where the System Configuration (RBSU) option "Access Control Service" did not disable PCIe Access Control Service when it’s set to disabled.

Known Issues:

None

Enhancements

Add new System Configuration (RBSU) configuration options that allow controlling the processor’s P0 (maximum) frequency. This includes the “Custom Pstate0” option with settings of “Auto” (default) and “Manual” and the “Pstate0 Frequency(MHz)” option that allows setting the P0 frequency. When the “Custom Pstate0” option is configured for “Manual”, the value of the “Pstate0 Frequency(MHz)” is used for the processor’s P0 frequency. When the “Custom Pstate0” option is configured for “Auto”, the processor uses its normal, maximum P0 frequency and the “Pstate0 Frequency(MHz)” option is not configurable. In System Configuration (RBSU), these options are located under the BIOS/Processor Options. This setting has the following Redfish properties:
/redfish/v1/systems/1/bios/settings/CustomPstate0
/redfish/v1/systems/1/bios/settings/Pstate0Frequency

Remove the System Configuration (RBSU) option for “Memory Interleaving Mode”. This option is no longer configurable because AMD recommends always enabling this capability for maximum performance. Memory Interleaving will always be enabled with this revision or later of the System ROM no matter how this option had been previously configured. In System Configuration (RBSU), this option had previously been located under the Memory Options. This setting had the following Redfish properties: /redfish/v1/systems/1/bios/settings/AmdMemoryInterleaving

Version: 1.22_01-19-2023 **(Recommended)**
Filename: RPMS/x86_64/firmware-system-a55-1.22_2023_01_19-1.1.x86_64.rpm; RPMS/x86_64/firmware-system-a55-1.22_2023_01_19-1.1.x86_64_part1.compsig; RPMS/x86_64/firmware-system-a55-1.22_2023_01_19-1.1.x86_64_part2.compsig

Important Note!

Important Notes:

None

Deliverable Name:

HPE DL385 Gen11/DL365 Gen11 Server System ROM - A55

Release Version:

1.22_01-19-2023

Last Recommended or Critical Revision:

1.22_01-19-2023

Previous Revision:

1.20_01-06-2023

Firmware Dependencies:

None

Enhancements/New Features:

Add new System Configuration (RBSU) configuration options that allow controlling the processor's P0 (maximum) frequency. This includes the "Custom Pstate0" option with settings of "Auto" (default) and "Manual" and the "Pstate0 Frequency(MHz)" option that allows setting the P0 frequency. When the "Custom Pstate0" option is configured for "Manual", the value of the "Pstate0 Frequency(MHz)" is used for the processor's P0 frequency. When the "Custom Pstate0" option is configured for "Auto", the processor uses its normal, maximum P0 frequency and the "Pstate0 Frequency(MHz)" option is not configurable. In System Configuration (RBSU), these options are located under the BIOS/Processor Options. This setting has the following Redfish properties:
/redfish/v1/systems/1/bios/settings/CustomPstate0
/redfish/v1/systems/1/bios/settings/Pstate0Frequency

Remove the System Configuration (RBSU) option for "Memory Interleaving Mode". This option is no longer configurable because AMD recommends always enabling this capability for maximum performance. Memory Interleaving will always be enabled with this revision or later of the System ROM no matter how this option had been previously configured. In System Configuration (RBSU), this option had previously been located under the Memory Options. This setting had the following Redfish properties: /redfish/v1/systems/1/bios/settings/AmdMemoryInterleaving

Problems Fixed:

Addressed an issue where system may hang at POST during TPM measurement after restoring manufacturing defaults.

Address an issue where the RegistryVersion format in the URI redfish/v1/registrystore/registries did not follow the Redfish Specification. If scripts were written to conform with the incorrect format in previous System ROMs, those scripts may need to be modified to follow the correct, Redfish compliant format which is implemented in this System ROM revision and later.

Addressed an issue where the System Configuration (RBSU) option "Access Control Service" did not disable PCIe Access Control Service when it’s set to disabled.

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver” (CHIF) for Linux which is integrated into the standard Linux kernel.

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where system may hang at POST during TPM measurement after restoring manufacturing defaults.

Address an issue where the RegistryVersion format in the URI redfish/v1/registrystore/registries did not follow the Redfish Specification. If scripts were written to conform with the incorrect format in previous System ROMs, those scripts may need to be modified to follow the correct, Redfish compliant format which is implemented in this System ROM revision and later.

Addressed an issue where the System Configuration (RBSU) option "Access Control Service" did not disable PCIe Access Control Service when it’s set to disabled.

Known Issues:

None

Enhancements

Add new System Configuration (RBSU) configuration options that allow controlling the processor’s P0 (maximum) frequency. This includes the “Custom Pstate0” option with settings of “Auto” (default) and “Manual” and the “Pstate0 Frequency(MHz)” option that allows setting the P0 frequency. When the “Custom Pstate0” option is configured for “Manual”, the value of the “Pstate0 Frequency(MHz)” is used for the processor’s P0 frequency. When the “Custom Pstate0” option is configured for “Auto”, the processor uses its normal, maximum P0 frequency and the “Pstate0 Frequency(MHz)” option is not configurable. In System Configuration (RBSU), these options are located under the BIOS/Processor Options. This setting has the following Redfish properties:
/redfish/v1/systems/1/bios/settings/CustomPstate0
/redfish/v1/systems/1/bios/settings/Pstate0Frequency

Remove the System Configuration (RBSU) option for “Memory Interleaving Mode”. This option is no longer configurable because AMD recommends always enabling this capability for maximum performance. Memory Interleaving will always be enabled with this revision or later of the System ROM no matter how this option had been previously configured. In System Configuration (RBSU), this option had previously been located under the Memory Options. This setting had the following Redfish properties: /redfish/v1/systems/1/bios/settings/AmdMemoryInterleaving

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Online ROM Flash Component for Linux - HPE ProLiant DL560 Gen11 (U59) Servers
Version: 1.30_03-01-2023 **(Recommended)**
Filename: RPMS/x86_64/firmware-system-u59-1.30_2023_03_01-1.1.x86_64.rpm; RPMS/x86_64/firmware-system-u59-1.30_2023_03_01-1.1.x86_64_part1.compsig; RPMS/x86_64/firmware-system-u59-1.30_2023_03_01-1.1.x86_64_part2.compsig

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant DL560 Gen11 System ROM - U59

Release Version:

1.30_03-01-2022

Last Recommended or Critical Revision:

This is the initial version of the firmware.

Previous Revision:

This is the initial version of the firmware.

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial version of the firmware.

Problems Fixed:

None

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver" (CHIF) for Linux which is integrated into the standard Linux kernel.

Enhancements

Important Notes:

None

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial version of the firmware.

Known Issues:

None

Online ROM Flash Component for Linux - HPE ProLiant ML350/DL360/DL380 Gen11 (U54) Servers
Version: 1.30_03-01-2023 **(Recommended)**
Filename: RPMS/x86_64/firmware-system-u54-1.30_2023_03_01-1.1.x86_64.rpm; RPMS/x86_64/firmware-system-u54-1.30_2023_03_01-1.1.x86_64_part1.compsig; RPMS/x86_64/firmware-system-u54-1.30_2023_03_01-1.1.x86_64_part2.compsig

Important Note!

Important Notes:

None

Deliverable Name:

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

Release Version:

1.30_03-01-2023

Last Recommended or Critical Revision:

1.30_03-01-2023

Previous Revision:

1.24_03-03-2023

Firmware Dependencies:

None

Enhancements/New Features:

Added capability to support 4th Gen Intel Xeon Scalable Processors 4S.

Enhanced PCI information in Active Health System log.

Problems Fixed:

Addressed an issue where the Always Power On function would remain off when factory defaults are loaded.

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver" (CHIF) for Linux which is integrated into the standard Linux kernel.

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the Always Power On function would remain off when factory defaults are loaded.

Known Issues:

None

Enhancements

Added capability to support 4th Gen Intel Xeon Scalable Processors 4S.

Enhanced PCI information in Active Health System log.

Online ROM Flash Component for Windows x64 - HPE ProLiant DL325/DL345 Gen11 (A56) Servers
Version: 1.22_01-19-2023 **(Recommended)**
Filename: cp055962.exe; cp055962_part1.compsig; cp055962_part2.compsig

Important Note!

Important Notes:

None

Deliverable Name:

HPE DL325 Gen11/DL345 Gen11 Server System ROM - A56

Release Version:

1.22_01-19-2023

Last Recommended or Critical Revision:

1.22_01-19-2023

Previous Revision:

1.20_01-06-2023

Firmware Dependencies:

None

Enhancements/New Features:

Add new System Configuration (RBSU) configuration options that allow controlling the processor's P0 (maximum) frequency. This includes the "Custom Pstate0" option with settings of "Auto" (default) and "Manual" and the "Pstate0 Frequency(MHz)" option that allows setting the P0 frequency. When the "Custom Pstate0" option is configured for "Manual", the value of the "Pstate0 Frequency(MHz)" is used for the processor's P0 frequency. When the "Custom Pstate0" option is configured for "Auto", the processor uses its normal, maximum P0 frequency and the "Pstate0 Frequency(MHz)" option is not configurable. In System Configuration (RBSU), these options are located under the BIOS/Processor Options. This setting has the following Redfish properties:

/redfish/v1/systems/1/bios/settings/CustomPstate0
/redfish/v1/systems/1/bios/settings/Pstate0Frequency

Remove the System Configuration (RBSU) option for "Memory Interleaving Mode". This option is no longer configurable because AMD recommends always enabling this capability for maximum performance. Memory Interleaving will always be enabled with this revision or later of the System ROM no matter how this option had been previously configured. In System Configuration (RBSU), this option had previously been located under the Memory Options. This setting had the following Redfish properties: /redfish/v1/systems/1/bios/settings/AmdMemoryInterleaving

Problems Fixed:

Addressed an issue where system may hang at POST during TPM measurement after restoring manufacturing defaults.

Address an issue where the RegistryVersion format in the URI redfish/v1/registrystore/registries did not follow the Redfish Specification. If scripts were written to conform with the incorrect format in previous System ROMs, those scripts may need to be modified to follow the correct, Redfish compliant format which is implemented in this System ROM revision and later.

Addressed an issue where the System Configuration (RBSU) option "Access Control Service" did not disable PCIe Access Control Service when it's set to disabled.

Known Issues:

None

Prerequisites

The "iLO 5 Channel Interface Driver" (CHIF) for Windows which is available from Service Pack for ProLiant (SPP).

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where system may hang at POST during TPM measurement after restoring manufacturing defaults.

Address an issue where the RegistryVersion format in the URI redfish/v1/registrystore/registries did not follow the Redfish Specification. If scripts were written to conform with the incorrect format in previous System ROMs, those scripts may need to be modified to follow the correct, Redfish compliant format which is implemented in this System ROM revision and later.

Addressed an issue where the System Configuration (RBSU) option "Access Control Service" did not disable PCIe Access Control Service when it's set to disabled.

Known Issues:

None

Enhancements

Add new System Configuration (RBSU) configuration options that allow controlling the processor's P0 (maximum) frequency. This includes the "Custom Pstate0" option with settings of "Auto" (default) and

"Manual" and the "Pstate0 Frequency(MHz)" option that allows setting the P0 frequency. When the "Custom Pstate0" option is configured for "Manual", the value of the "Pstate0 Frequency(MHz)" is used for the processor's P0 frequency. When the "Custom Pstate0" option is configured for "Auto", the processor uses its normal, maximum P0 frequency and the "Pstate0 Frequency(MHz)" option is not configurable. In System Configuration (RBSU), these options are located under the BIOS/Processor Options. This setting has the following Redfish properties:
/redfish/v1/systems/1/bios/settings/CustomPstate0
/redfish/v1/systems/1/bios/settings/Pstate0Frequency

Remove the System Configuration (RBSU) option for "Memory Interleaving Mode". This option is no longer configurable because AMD recommends always enabling this capability for maximum performance. Memory Interleaving will always be enabled with this revision or later of the System ROM no matter how this option had been previously configured. In System Configuration (RBSU), this option had previously been located under the Memory Options. This setting had the following Redfish properties: /redfish/v1/systems/1/bios/settings/AmdMemoryInterleaving

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Online ROM Flash Component for Windows x64 - HPE ProLiant DL365/DL385 Gen11 (A55) Servers
Version: 1.22_01-19-2023 **(Recommended)**
Filename: cp055965.exe; cp055965_part1.compsig; cp055965_part2.compsig

Important Note!

Important Notes:

None

Deliverable Name:

HPE DL385 Gen11/DL365 Gen11 Server System ROM - A55

Release Version:

1.22_01-19-2023

Last Recommended or Critical Revision:

1.22_01-19-2023

Previous Revision:

1.20_01-06-2023

Firmware Dependencies:

None

Enhancements/New Features:

Add new System Configuration (RBSU) configuration options that allow controlling the processor's P0 (maximum) frequency. This includes the "Custom Pstate0" option with settings of "Auto" (default) and "Manual" and the "Pstate0 Frequency(MHz)" option that allows setting the P0 frequency. When the "Custom Pstate0" option is configured for "Manual", the value of the "Pstate0 Frequency(MHz)" is used for the processor's P0 frequency. When the "Custom Pstate0" option is configured for "Auto", the processor uses its normal, maximum P0 frequency and the "Pstate0 Frequency(MHz)" option is not configurable. In System Configuration (RBSU), these options are located under the BIOS/Processor Options. This setting has the following Redfish properties:
/redfish/v1/systems/1/bios/settings/CustomPstate0
/redfish/v1/systems/1/bios/settings/Pstate0Frequency

Remove the System Configuration (RBSU) option for "Memory Interleaving Mode". This option is no longer configurable because AMD recommends always enabling this capability for maximum performance. Memory Interleaving will always be enabled with this revision or later of the System ROM no matter how this option had been previously configured. In System Configuration (RBSU), this

option had previously been located under the Memory Options. This setting had the following Redfish properties: /redfish/v1/systems/1/bios/settings/AmdMemoryInterleaving

Problems Fixed:

Addressed an issue where system may hang at POST during TPM measurement after restoring manufacturing defaults.

Address an issue where the RegistryVersion format in the URI redfish/v1/registrystore/registries did not follow the Redfish Specification. If scripts were written to conform with the incorrect format in previous System ROMs, those scripts may need to be modified to follow the correct, Redfish compliant format which is implemented in this System ROM revision and later.

Addressed an issue where the System Configuration (RBSU) option "Access Control Service" did not disable PCIe Access Control Service when it’s set to disabled.

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver” (CHIF) for Windows which is available from Service Pack for ProLiant (SPP).

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where system may hang at POST during TPM measurement after restoring manufacturing defaults.

Address an issue where the RegistryVersion format in the URI redfish/v1/registrystore/registries did not follow the Redfish Specification. If scripts were written to conform with the incorrect format in previous System ROMs, those scripts may need to be modified to follow the correct, Redfish compliant format which is implemented in this System ROM revision and later.

Addressed an issue where the System Configuration (RBSU) option "Access Control Service" did not disable PCIe Access Control Service when it’s set to disabled.

Known Issues:

None

Enhancements

Add new System Configuration (RBSU) configuration options that allow controlling the processor’s P0 (maximum) frequency. This includes the “Custom Pstate0” option with settings of “Auto” (default) and “Manual” and the “Pstate0 Frequency(MHz)” option that allows setting the P0 frequency. When the “Custom Pstate0” option is configured for “Manual”, the value of the “Pstate0 Frequency(MHz)” is used for the processor’s P0 frequency. When the “Custom Pstate0” option is configured for “Auto”, the processor uses its normal, maximum P0 frequency and the “Pstate0 Frequency(MHz)” option is not configurable. In System Configuration (RBSU), these options are located under the BIOS/Processor Options. This setting has the following Redfish properties:

/redfish/v1/systems/1/bios/settings/CustomPstate0
/redfish/v1/systems/1/bios/settings/Pstate0Frequency

Remove the System Configuration (RBSU) option for "Memory Interleaving Mode". This option is no longer configurable because AMD recommends always enabling this capability for maximum performance. Memory Interleaving will always be enabled with this revision or later of the System ROM no matter how this option had been previously configured. In System Configuration (RBSU), this option had previously been located under the Memory Options. This setting had the following Redfish properties: /redfish/v1/systems/1/bios/settings/AmdMemoryInterleaving

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ROM Flash Firmware Package - HPE ProLiant DL110 Gen11 (U62) Servers
Version: 1.30_03-01-2023 **(Recommended)**
Filename: U62_1.30_03_01_2023.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant DL110 Gen11 System ROM - U62

Release Version:

1.30_03-01-2023

Last Recommended or Critical Revision:

This is the initial version of the firmware.

Previous Revision:

This is the initial version of the firmware.

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial version of the firmware.

Problems Fixed:

None

Known Issues:

None

Enhancements

Important Notes:

None

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial version of the firmware.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant DL320/ML110 Gen11 (U63) Servers
Version: 1.30_03-01-2023 **(Recommended)**
Filename: U63_1.30_03_01_2023.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

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

Release Version:

1.30_03-01-2023

Last Recommended or Critical Revision:

1.30_03-01-2023

Previous Revision:

1.24_03-03-2023

Firmware Dependencies:

None

Enhancements/New Features:

Added capability to support 4th Gen Intel Xeon Scalable Processors 4S.

Enhanced PCI information in Active Health System log.

Problems Fixed:

Addressed an issue where the Always Power On function would remain off when factory defaults are loaded.

Known Issues:

None

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the Always Power On function would remain off when factory defaults are loaded.

Known Issues:

None

Enhancements

Added capability to support 4th Gen Intel Xeon Scalable Processors 4S.

Enhanced PCI information in Active Health System log.

ROM Flash Firmware Package - HPE Alletra 4110/Alletra 4120/ProLiant DL380a Gen11 (U58) Servers
Version: 1.30_03-01-2023 **(Recommended)**
Filename: U58_1.30_03_01_2023.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

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

Release Version:

1.30_03-01-2023

Last Recommended or Critical Revision:

1.30_03-01-2023

Previous Revision:

1.24_03-03-2023

Firmware Dependencies:

None

Enhancements/New Features:

Added capability to support 4th Gen Intel Xeon Scalable Processors 4S.

Enhanced PCI information in Active Health System log.

Problems Fixed:

Addressed an issue where the Always Power On function would remain off when factory defaults are loaded.

Known Issues:

None

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the Always Power On function would remain off when factory defaults are loaded.

Known Issues:

None

Enhancements

Added capability to support 4th Gen Intel Xeon Scalable Processors 4S.

Enhanced PCI information in Active Health System log.

ROM Flash Firmware Package - HPE ProLiant DL560 Gen11 (U59) Servers
Version: 1.30_03-01-2023 **(Recommended)**
Filename: U59_1.30_03_01_2023.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant DL560 Gen11 System ROM - U59

Release Version:

1.30_03-01-2022

Last Recommended or Critical Revision:

This is the initial version of the firmware.

Previous Revision:

This is the initial version of the firmware.

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial version of the firmware.

Problems Fixed:

None

Known Issues:

None

Enhancements

Important Notes:

None

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial version of the firmware.

Known Issues:

None

ROM Flash Firmware Package - HPE ProLiant ML350/DL360/DL380 Gen11 (U54) Servers
Version: 1.30_03-01-2023 **(Recommended)**
Filename: U54_1.30_03_01_2023.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

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

Release Version:

1.30_03-01-2023

Last Recommended or Critical Revision:

1.30_03-01-2023

Previous Revision:

1.24_03-03-2023

Firmware Dependencies:

None

Enhancements/New Features:

Added capability to support 4th Gen Intel Xeon Scalable Processors 4S.

Enhanced PCI information in Active Health System log.

Problems Fixed:

Addressed an issue where the Always Power On function would remain off when factory defaults are loaded.

Known Issues:

None

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the Always Power On function would remain off when factory defaults are loaded.

Known Issues:

None

Enhancements

Added capability to support 4th Gen Intel Xeon Scalable Processors 4S.

Enhanced PCI information in Active Health System log.

ROM Flash Universal Firmware Package - HPE ProLiant DL325/DL345 Gen11 (A56) Servers
Version: 1.22_01-19-2023 **(Recommended)**
Filename: A56_1.22_01_19_2023.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

HPE DL325 Gen11/DL345 Gen11 Server System ROM - A56

Release Version:

1.22_01-19-2023

Last Recommended or Critical Revision:

1.22_01-19-2023

Previous Revision:

1.20_01-06-2023

Firmware Dependencies:

None

Enhancements/New Features:

Add new System Configuration (RBSU) configuration options that allow controlling the processor's P0 (maximum) frequency. This includes the "Custom Pstate0" option with settings of "Auto" (default) and "Manual" and the "Pstate0 Frequency(MHz)" option that allows setting the P0 frequency. When the "Custom Pstate0" option is configured for "Manual", the value of the "Pstate0 Frequency(MHz)" is used for the processor's P0 frequency. When the "Custom Pstate0" option is configured for "Auto", the processor uses its normal, maximum P0 frequency and the "Pstate0 Frequency(MHz)" option is not configurable. In System Configuration (RBSU), these options are located under the BIOS/Processor Options. This setting has the following Redfish properties:
/redfish/v1/systems/1/bios/settings/CustomPstate0
/redfish/v1/systems/1/bios/settings/Pstate0Frequency

Remove the System Configuration (RBSU) option for "Memory Interleaving Mode". This option is no longer configurable because AMD recommends always enabling this capability for maximum performance. Memory Interleaving will always be enabled with this revision or later of the System ROM no matter how this option had been previously configured. In System Configuration (RBSU), this option had previously been located under the Memory Options. This setting had the following Redfish properties: /redfish/v1/systems/1/bios/settings/AmdMemoryInterleaving

Problems Fixed:

Addressed an issue where system may hang at POST during TPM measurement after restoring manufacturing defaults.

Address an issue where the RegistryVersion format in the URI redfish/v1/registrystore/registries did not follow the Redfish Specification. If scripts were written to conform with the incorrect format in previous System ROMs, those scripts may need to be modified to follow the correct, Redfish compliant format which is implemented in this System ROM revision and later.

Addressed an issue where the System Configuration (RBSU) option "Access Control Service" did not disable PCIe Access Control Service when it's set to disabled.

Known Issues:

None

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where system may hang at POST during TPM measurement after restoring manufacturing defaults.

Address an issue where the RegistryVersion format in the URI redfish/v1/registrystore/registries did not follow the Redfish Specification. If scripts were written to conform with the incorrect format in previous System ROMs, those scripts may need to be modified to follow the correct, Redfish compliant format which is implemented in this System ROM revision and later.

Addressed an issue where the System Configuration (RBSU) option "Access Control Service" did not disable PCIe Access Control Service when it’s set to disabled.

Known Issues:

None

Enhancements

Add new System Configuration (RBSU) configuration options that allow controlling the processor’s P0 (maximum) frequency. This includes the “Custom Pstate0” option with settings of “Auto” (default) and “Manual” and the “Pstate0 Frequency(MHz)” option that allows setting the P0 frequency. When the “Custom Pstate0” option is configured for “Manual”, the value of the “Pstate0 Frequency(MHz)” is used for the processor’s P0 frequency. When the “Custom Pstate0” option is configured for “Auto”, the processor uses its normal, maximum P0 frequency and the “Pstate0 Frequency(MHz)” option is not configurable. In System Configuration (RBSU), these options are located under the BIOS/Processor Options. This setting has the following Redfish properties:
/redfish/v1/systems/1/bios/settings/CustomPstate0
/redfish/v1/systems/1/bios/settings/Pstate0Frequency

Remove the System Configuration (RBSU) option for “Memory Interleaving Mode”. This option is no longer configurable because AMD recommends always enabling this capability for maximum performance. Memory Interleaving will always be enabled with this revision or later of the System ROM no matter how this option had been previously configured. In System Configuration (RBSU), this option had previously been located under the Memory Options. This setting had the following Redfish properties: /redfish/v1/systems/1/bios/settings/AmdMemoryInterleaving

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ROM Flash Universal Firmware Package - HPE ProLiant DL365/DL385 Gen11 (A55) Servers
Version: 1.22_01-19-2023 **(Recommended)**
Filename: A55_1.22_01_19_2023.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

HPE DL385 Gen11/DL365 Gen11 Server System ROM - A55

Release Version:

1.22_01-19-2023

Last Recommended or Critical Revision:

1.22_01-19-2023

Previous Revision:

1.20_01-06-2023

Firmware Dependencies:

None

Enhancements/New Features:

Add new System Configuration (RBSU) configuration options that allow controlling the processor's P0 (maximum) frequency. This includes the "Custom Pstate0" option with settings of "Auto" (default) and "Manual" and the "Pstate0 Frequency(MHz)" option that allows setting the P0 frequency. When the "Custom Pstate0" option is configured for "Manual", the value of the "Pstate0 Frequency(MHz)" is used for the processor's P0 frequency. When the "Custom Pstate0" option is configured for "Auto", the processor uses its normal, maximum P0 frequency and the "Pstate0 Frequency(MHz)" option is not configurable. In System Configuration (RBSU), these options are located under the BIOS/Processor Options. This setting has the following Redfish properties:
/redfish/v1/systems/1/bios/settings/CustomPstate0
/redfish/v1/systems/1/bios/settings/Pstate0Frequency

Remove the System Configuration (RBSU) option for "Memory Interleaving Mode". This option is no longer configurable because AMD recommends always enabling this capability for maximum performance. Memory Interleaving will always be enabled with this revision or later of the System ROM no matter how this option had been previously configured. In System Configuration (RBSU), this option had previously been located under the Memory Options. This setting had the following Redfish properties: /redfish/v1/systems/1/bios/settings/AmdMemoryInterleaving

Problems Fixed:

Addressed an issue where system may hang at POST during TPM measurement after restoring manufacturing defaults.

Address an issue where the RegistryVersion format in the URI redfish/v1/registrystore/registries did not follow the Redfish Specification. If scripts were written to conform with the incorrect format in previous System ROMs, those scripts may need to be modified to follow the correct, Redfish compliant format which is implemented in this System ROM revision and later.

Addressed an issue where the System Configuration (RBSU) option "Access Control Service" did not disable PCIe Access Control Service when it's set to disabled.

Known Issues:

None

Fixes

Important Notes:

None

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where system may hang at POST during TPM measurement after restoring manufacturing defaults.

Address an issue where the RegistryVersion format in the URI redfish/v1/registrystore/registries did not follow the Redfish Specification. If scripts were written to conform with the incorrect format in previous System ROMs, those scripts may need to be modified to follow the correct, Redfish compliant format which is implemented in this System ROM revision and later.

Addressed an issue where the System Configuration (RBSU) option "Access Control Service" did not disable PCIe Access Control Service when it's set to disabled.

Known Issues:

None

Enhancements

Add new System Configuration (RBSU) configuration options that allow controlling the processor's P0 (maximum) frequency. This includes the "Custom Pstate0" option with settings of "Auto" (default) and "Manual" and the "Pstate0 Frequency(MHz)" option that allows setting the P0 frequency. When the "Custom Pstate0" option is configured for "Manual", the value of the "Pstate0 Frequency(MHz)" is used for the processor's P0 frequency. When the "Custom Pstate0" option is configured for "Auto", the processor uses its normal, maximum P0 frequency and the "Pstate0 Frequency(MHz)" option is not configurable. In System Configuration (RBSU), these options are located under the BIOS/Processor Options. This setting has the following Redfish properties:
/redfish/v1/systems/1/bios/settings/CustomPstate0
/redfish/v1/systems/1/bios/settings/Pstate0Frequency

Remove the System Configuration (RBSU) option for "Memory Interleaving Mode". This option is no longer configurable because AMD recommends always enabling this capability for maximum performance. Memory Interleaving will always be enabled with this revision or later of the System ROM no matter how this option had been previously configured. In System Configuration (RBSU), this option had previously been located under the Memory Options. This setting had the following Redfish properties: /redfish/v1/systems/1/bios/settings/AmdMemoryInterleaving

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Driver - Chipset Top

Identifiers for AMD EPYC Genoa Processors for Microsoft Windows Server 2019
Version: 4.11.28.151 **(Recommended)**
Filename: cp055530.compsig; cp055530.exe

Fixes

- Added support for AHCI controller device

Identifiers for AMD EPYC Genoa Processors for Microsoft Windows Server 2022
Version: 4.11.28.151 **(Recommended)**
Filename: cp055531.compsig; cp055531.exe

Fixes

- Added support for AHCI controller device

Identifiers for Intel Xeon Scalable Processors (Fourth Generation) for Microsoft Windows
Version: 10.1.19263.8344 **(Recommended)**
Filename: cp053816.compsig; cp053816.exe

Enhancements

- Added SHA384 signature

Driver - Lights-Out Management Top

HPE iLO Native Driver for ESXi 7.0
Version: 10.8.0 **(Recommended)**
Filename: ilo-driver_700.10.8.0.6-1OEM.700.1.0.15843807_20300719.zip

Fixes

- Fixed issue where ilo driver is failing to acquire contiguous physical memory below 4GB causing userworld apps like hponcfg to be unable to communicate with iLO.

Enhancements

- Added support for vSphere 8.0

Driver - Network Top

Broadcom NetXtreme-E Driver for Microsoft Windows Server 2019
Version: 224.0.159.0 **(Recommended)**
Filename: cp054747.compsig; cp054747.exe

Important Note!

HPE recommends the firmware provided in *Broadcom Firmware Package for BCM5741x and BCM5750x adapters*, version 224.1.102.0 or later, for use with this driver.

Fixes

- This product addresses an issue where VF RoCE will not function if default VLAN is enabled on vSwitch for the VF.
- This product addresses an issue where changing the 'Speed&Duplex' setting from forced speed to auto-negotiation, the link come up at an undesired speed.
- This product correct an issue which the driver vlan programming filters to make the filtering work to cover unicast, multicast, and broadcast frame types.
- This product correct an issue which no VF RDMA connectivity with VLAN enabled.
- This product correct an issue which the issue which unable to recover from FW crash triggered by bnxtnvm fwcli 'crash fw_assert' for BCM57504 series adapters.
- This product correct an issue which large DMA memory allocations would sometimes fail in VF drivers when many VMs were being started at the same time.
- This product correct an issue which yellow bang issue which VF driver was reserving RDMA resources even when RDMA was disabled on the PF.

Enhancements

- This product enhanced river to support NDIS Poll Mode that would reduce DPC time.
- This product enhanced the way to logging debug data for the system event log message
- This product enhanced the way to add the driver version to the event log message text for the successful initialization message.
- This product enhanced NDIS VmqScalability by reducing number of MAC filters for BCM5741x.
- This product contains functional problems warnings improvements.

Supported Devices and Features

This product supports the following network adapters:

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

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

Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022
Version: 224.0.159.0 **(Recommended)**
Filename: cp054748.compsig; cp054748.exe

Important Note!

HPE recommends the firmware provided in *Broadcom Firmware Package for BCM5741x and BCM5750x adapters*, version 224.1.102.0 or later, for use with this driver.

Fixes

- This product addresses an issue where VF RoCE will not function if default VLAN is enabled on vSwitch for the VF.
- This product addresses an issue where changing the 'Speed&Duplex' setting from forced speed to auto-negotiation, the link come up at an undesired speed.
- This product correct an issue which the driver vlan programming filters to make the filtering work to cover unicast, multicast, and broadcast frame types.
- This product correct an issue which no VF RDMA connectivity with VLAN enabled.
- This product correct an issue which the issue which unable to recover from FW crash triggered by bnxtnvm fwcli 'crash fw_assert' for BCM57504 series adapters.
- This product correct an issue which large DMA memory allocations would sometimes fail in VF drivers when many VMs were being started at the same time.
- This product correct an issue which yellow bang issue which VF driver was reserving RDMA resources even when RDMA was disabled on the PF.

Enhancements

- This product enhanced river to support NDIS Poll Mode that would reduce DPC time.
- This product enhanced the way to logging debug data for the system event log message
- This product enhanced the way to add the driver version to the event log message text for the successful initialization message.
- This product enhanced NDIS VmqScalability by reducing number of MAC filters for BCM5741x.
- This product contains functional problems warnings improvements.

Supported Devices and Features

This product supports the following network adapters:

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

Broadcom NX1 1Gb Driver for Windows Server x64 Editions
Version: 221.0.5.0 **(Recommended)**
Filename: cp054663.compsig; cp054663.exe

Important Note!

HPE recommends the firmware provided in *HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions*, version 5.3.3.0 or later, for use with this driver.

Fixes

This product addresses an issue where update of Driver Copyright information

Supported Devices and Features

This product supports the following network adapters:

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

HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8
Version: 1.10.2-224.0.157.0 **(Recommended)**
Filename: kmod-bnxt_en-1.10.2-224.0.157.0.rhel8u6.x86_64.compsig; kmod-bnxt_en-1.10.2-224.0.157.0.rhel8u6.x86_64.rpm; README

Important Note!

HPE recommends the *HPE Broadcom NetXtreme-E Firmware Version,* 224.1.102000 or later, for use with this driver.

Fixes

- This product addresses an issue where System crash on running ethtool self test in loop on multiple adapter ports
- This product addresses an issue where MSIX collision between L2 and RoCE drivers.
- This product addresses an issue where Devlink reload command failed.
- This product correct an issue which unable to recover from FW crash triggered by bnxtnvm fwcli 'crash fw_assert'.
- This product correct an issue which the call traces while unloading bnxt_en and bnxt_re driver
- This product correct an issue which ethtool -S crash when firmware is unhealthy
- This product correct an issue which rdev allocation '__flush_work' issue by doing initialization for kernel workqueue.

Enhancements

- This product enhanced optimize drvier around user data copy.
- This product enhanced driver warning messages are thrown when driver reload.
- This product enhanced to support XDP multibuffer.
- This product enhanced ethtool to support CMIS 4.0 and backwards compatibility apart from compat changes.

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port 535FLR-T Adapter
- HPE Ethernet 10Gb 2-port 535T Adapter
- HPE Ethernet 10Gb 2-port 537SFP+ Adapter
- HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter
- HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter
- HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter
- HPE Ethernet 10Gb 2-port SFP+ BCM57412 OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ BCM57412 Adapter
- HPE Ethernet 10Gb 2-port BaseT BCM57416 OCP3 Adapter

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

HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9
Version: 1.10.2-224.0.157.0 **(Recommended)**
Filename: kmod-bnxt_en-1.10.2-224.0.157.0.rhel9u0.x86_64.compsig; kmod-bnxt_en-1.10.2-224.0.157.0.rhel9u0.x86_64.rpm; README

Important Note!

- This product is based on RHEL9 kernel version 5.14.0-70.22.1.el9
- HPE recommends the *HPE Broadcom NetXtreme-E Firmware Version,* 224.1.102000 or later, for use with this driver.

Fixes

- This product addresses an issue where System crash on running ethtool self test in loop on multiple adapter ports
- This product addresses an issue where MSIX collision between L2 and RoCE drivers.
- This product addresses an issue where Devlink reload command failed.
- This product correct an issue which unable to recover from FW crash triggered by bnxtnvm fwcli 'crash fw_assert'.
- This product correct an issue which the call traces while unloading bnxt_en and bnxt_re driver
- This product correct an issue which ethtool -S crash when firmware is unhealthy
- This product correct an issue which rdev allocation '__flush_work' issue by doing initialization for kernel workqueue.

Enhancements

- This product enhanced optimize drvier around user data copy.
- This product enhanced driver warning messages are thrown when driver reload.
- This product enhanced to support XDP multibuffer.
- This product enhanced ethtool to support CMIS 4.0 and backwards compatibility apart from compat changes.

Supported Devices and Features

This product supports the following network adapters:

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

HPE Broadcom NetXtreme-E Drivers for SUSE Linux Enterprise Server 15
Version: 1.10.2-224.0.157.0 **(Recommended)**
Filename: bnxt_en-kmp-default-1.10.2_k5.14.21_150400.22-224.0.157.0.sles15sp4.x86_64.compsig; bnxt_en-kmp-default-1.10.2_k5.14.21_150400.22-224.0.157.0.sles15sp4.x86_64.rpm; bnxt_en-kmp-default-1.10.2_k5.3.18_57-224.0.157.0.sles15sp3.x86_64.compsig; bnxt_en-kmp-default-1.10.2_k5.3.18_57-224.0.157.0.sles15sp3.x86_64.rpm; README

Important Note!

HPE recommends the *HPE Broadcom NetXtreme-E Firmware Version,* 224.1.102000 or later, for use with this driver.

Fixes

- This product addresses an issue where System crash on running ethtool self test in loop on multiple adapter ports
- This product addresses an issue where MSIX collision between L2 and RoCE drivers.
- This product addresses an issue where Devlink reload command failed.
- This product correct an issue which unable to recover from FW crash triggered by bnxtnvm fwcli 'crash fw_assert'.
- This product correct an issue which the call traces while unloading bnxt_en and bnxt_re driver
- This product correct an issue which ethtool -S crash when firmware is unhealthy
- This product correct an issue which rdev allocation '__flush_work' issue by doing initialization for kernel workqueue.
- This product correct an issue which the RPM metadata missing pci-id

Enhancements

- This product enhanced optimize drvier around user data copy.
- This product enhanced driver warning messages are thrown when driver reload.
- This product enhanced to support XDP multibuffer.
- This product enhanced ethtool to support CMIS 4.0 and backwards compatibility apart from compat changes.
- This product enhanced the compatibility with SLES15-SP4.

Supported Devices and Features

This product supports the following network adapters:

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

HPE Broadcom NetXtreme-E Drivers for VMware vSphere 7.0
Version: 2023.03.00 **(Recommended)**
Filename: cp054746.compsig; cp054746.zip

Important Note!

- This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.
- HPE recommends the *HPE Broadcom NetXtreme-E Firmware Version,* 224.1.102000 or later, for use with this driver.

Fixes

- This product correct an issue which Fix no VLAN stripping issue.
- This product correct an issue which Invalid memory access when DCB structure memory allocation fails during driver unload and DCB async event received by driver.

Enhancements

- This product enhances queue deletion and addition support ENS driver for VMware NSX-T.
- This product enhances to support for PHY_CFG_CHANGE event processing, driver receives async event for any change in pause behavior.

Supported Devices and Features

This product supports the following network adapters:

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

HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 5.
Version: 222.0.142.0 **(Recommended)**
Filename: libbnxt_re-222.0.142.0-rhel8u5.x86_64.compsig; libbnxt_re-222.0.142.0-rhel8u5.x86_64.rpm; README

Prerequisites

HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8, version 1.10.2-222.0.142.0 or later, must be installed before installing this product.

The libibverb and rdma-core package must be installed on the target system prior to the installation of the RoCE library. If not already present, the packages can be obtained from the operating system installation media.

Enhancements

initial version

Supported Devices and Features

This product supports the following network adapters:

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

HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 6.
Version: 224.0.157.0 **(Recommended)**
Filename: libbnxt_re-224.0.157.0-rhel8u6.x86_64.compsig; libbnxt_re-224.0.157.0-rhel8u6.x86_64.rpm; README

Prerequisites

HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8, version 1.10.2-224.0.157.0 or later, must be installed before installing this product.

The libibverb and rdma-core package must be installed on the target system prior to the installation of the RoCE library. If not already present, the packages can be obtained from the operating system installation media.

Fixes

- This product addresses an issue where System crash due to the race conditions between different bnxt_re driver operations
- This product correct an issue which the bnxt_re driver crash or longer time to complete during unload under heavy RoCE I/O load.
- This product correct an issue which the bnxt_re ifup initialization failed after aborted error recovery.
- This product correct an issue which the Kernel panic when driver detect roce firmware command timeout.
- This product correct an issue which the debugging bnxt_re printing to reduce the latency whenever the roce channel command timeout is detected.
- This product correct an issue which ethtool -m could not dump the information for the SFF 0x1e module ID.
- This product correct an issue which RoCE bandwidth very lower when load driver with no link present and speed forced to 10G.
- This product correct an issue which system crash when enabling VF and vswitch bridging in a repeated cycle.

Enhancements

- This product enhanced to add bnxt_re module parameter to specify the number of MSIX vectors per PF.
- This product enhanced to add the support for rdma-core version v38, v39, v40, v41 and v24 in RoCE library.

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port 535FLR-T Adapter
- HPE Ethernet 10Gb 2-port 535T Adapter
- HPE Ethernet 10Gb 2-port 537SFP+ Adapter
- HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter

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

HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 0.
Version: 224.0.157.0 **(Recommended)**
Filename: libbnxt_re-224.0.157.0-rhel9u0.x86_64.compsig; libbnxt_re-224.0.157.0-rhel9u0.x86_64.rpm; README

Prerequisites

HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9, version 1.10.2-224.0.157.0 or later, must be installed before installing this product.

The libibverb and rdma-core package must be installed on the target system prior to the installation of the RoCE library. If not already present, the packages can be obtained from the operating system installation media.

Fixes

- This product addresses an issue where System crash due to the race conditions between different bnxt_re driver operations
- This product correct an issue which the bnxt_re driver crash or longer time to complete during unload under heavy RoCE I/O load.
- This product correct an issue which the bnxt_re ifup initialization failed after aborted error recovery.
- This product correct an issue which the Kernel panic when driver detect roce firmware command timeout.
- This product correct an issue which the debugging bnxt_re printing to reduce the latency whenever the roce channel command timeout is detected.
- This product correct an issue which ethtool -m could not dump the information for the SFF 0x1e module ID.
- This product correct an issue which RoCE bandwidth very lower when load driver with no link present and speed forced to 10G.
- This product correct an issue which system crash when enabling VF and vswitch bridging in a repeated cycle.

Enhancements

- This product enhanced to add bnxt_re module parameter to specify the number of MSIX vectors per PF.
- This product enhanced to add the support for rdma-core version v38, v39, v40, v41 and v24 in RoCE library.

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port 535FLR-T Adapter
- HPE Ethernet 10Gb 2-port 535T Adapter
- HPE Ethernet 10Gb 2-port 537SFP+ Adapter
- HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter
- HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter
- HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter
- HPE Ethernet 10Gb 2-port SFP+ BCM57412 OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ BCM57412 Adapter

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

HPE Broadcom NetXtreme-E RoCE Library for SUSE Linux Enterprise Server 15 SP4
Version: 224.0.157.0 **(Recommended)**
Filename: libbnxt_re-224.0.157.0-sles15sp4.x86_64.compsig; libbnxt_re-224.0.157.0-sles15sp4.x86_64.rpm; README

Prerequisites

HPE Broadcom NetXtreme-E Drivers for SUSE Linux Enterprise Server 15, version 1.10.2-224.0.157.0 or later, must be installed before installing this product.

The libibverb and rdma-core package must be installed on the target system prior to the installation of the RoCE library. If not already present, the packages can be obtained from the operating system installation media..

Fixes

- This product addresses an issue where System crash due to the race conditions between different bnxt_re driver operations
- This product correct an issue which the bnxt_re driver crash or longer time to complete during unload under heavy RoCE I/O load.
- This product correct an issue which the bnxt_re ifup initialization failed after aborted error recovery.
- This product correct an issue which the Kernel panic when driver detect roce firmware command timeout.
- This product correct an issue which the debugging bnxt_re printing to reduce the latency whenever the roce channel command timeout is detected.
- This product correct an issue which ethtool -m could not dump the information for the SFF 0x1e module ID.
- This product correct an issue which RoCE bandwidth very lower when load driver with no link present and speed forced to 10G.
- This product correct an issue which system crash when enabling VF and vswitch bridging in a repeated cycle.
- This product correct an issue which the RPM metadata missing pci-id

Enhancements

- This product enhanced to add bnxt_re module parameter to specify the number of MSIX vectors per PF.
- This product enhanced to add the support for rdma-core version v38, v39, v40, v41 and v24 in RoCE library.
- This product enhanced to add the compatibility with SLES15-SP4.

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port 535FLR-T Adapter
- HPE Ethernet 10Gb 2-port 535T Adapter
- HPE Ethernet 10Gb 2-port 537SFP+ Adapter
- HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter
- HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter
- HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter
- HPE Ethernet 10Gb 2-port SFP+ BCM57412 OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ BCM57412 Adapter
- HPE Ethernet 10Gb 2-port BaseT BCM57416 OCP3 Adapter
- HPE Ethernet 10Gb 2-port BaseT BCM57416 Adapter

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

HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 8
Version: 3.139j-1 **(Recommended)**
Filename: kmod-tg3-3.139j-1.rhel8u6.x86_64.compsig; kmod-tg3-3.139j-1.rhel8u6.x86_64.rpm; README

Important Note!

HPE recommends the firmware provided in *HPE NX1 Broadcom Online Firmware Upgrade Utility for Linux x86_64,* version 2.32.x or later, for use with these drivers.

Enhancements

This product enhanced the compatibility with new kernel supported.

Supported Devices and Features

These drivers support the following network adapters:

- HPE Ethernet 1Gb 2-port 330i Adapter (22BD)
- HPE Ethernet 1Gb 4-port 331i Adapter (22BE)
- HPE Ethernet 1Gb 4-port 331FLR Adapter
- HPE Ethernet 1Gb 4-port 331T Adapter
- HPE Ethernet 1Gb 2-port 332i Adapter (22E8)
- HPE Ethernet 1Gb 2-port 332T Adapter
- Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE
- Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE
- Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE

HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 9
Version: 3.139j-1 **(Recommended)**
Filename: kmod-tg3-3.139j-1.5.14.0.70.22.1.rhel9u0.x86_64.compsig; kmod-tg3-3.139j-1.5.14.0.70.22.1.rhel9u0.x86_64.rpm; README

Important Note!

HPE recommends the firmware provided in *HPE NX1 Broadcom Online Firmware Upgrade Utility for Linux x86_64,* version 2.32.x or later, for use with these drivers.

Enhancements

This product enhanced the compatibility with new kernel supported.

Supported Devices and Features

These drivers support the following network adapters:

- HPE Ethernet 1Gb 2-port 330i Adapter (22BD)
- HPE Ethernet 1Gb 4-port 331i Adapter (22BE)
- HPE Ethernet 1Gb 4-port 331FLR Adapter
- HPE Ethernet 1Gb 4-port 331T Adapter
- HPE Ethernet 1Gb 2-port 332i Adapter (22E8)
- HPE Ethernet 1Gb 2-port 332T Adapter
- Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE
- Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE
- Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE

HPE Broadcom tg3 Ethernet Drivers for SUSE Linux Enterprise Server 15
Version: 3.139j-2 **(Recommended)**
Filename: README; tg3-kmp-default-3.139j_k5.14.21_150400.22-2.sles15sp4.x86_64.compsig; tg3-kmp-default-3.139j_k5.14.21_150400.22-2.sles15sp4.x86_64.rpm; tg3-kmp-default-3.139j_k5.3.18_57-2.sles15sp3.x86_64.compsig; tg3-kmp-default-3.139j_k5.3.18_57-2.sles15sp3.x86_64.rpm

Important Note!

HPE recommends the firmware provided in *HPE NX1 Broadcom Online Firmware Upgrade Utility for Linux x86_64,* version 2.32.x or later, for use with these drivers.

Fixes

This product correct an issue which the RPM metadata missing pci-id

Enhancements

This product enhanced the compatibility with new kernel supported.

Supported Devices and Features

These drivers support the following network adapters:

- HPE Ethernet 1Gb 2-port 330i Adapter (22BD)
- HPE Ethernet 1Gb 4-port 331i Adapter (22BE)
- HPE Ethernet 1Gb 4-port 331FLR Adapter
- HPE Ethernet 1Gb 4-port 331T Adapter
- HPE Ethernet 1Gb 2-port 332i Adapter (22E8)
- HPE Ethernet 1Gb 2-port 332T Adapter
- Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE
- Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE
- Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE

HPE Intel iavf Drivers for Red Hat Enterprise Linux 8
Version: 4.6.1-1 **(Recommended)**
Filename: kmod-hp-iavf-4.6.1-1.rhel8u5.x86_64.compsig; kmod-hp-iavf-4.6.1-1.rhel8u5.x86_64.rpm; kmod-hp-iavf-4.6.1-1.rhel8u6.x86_64.compsig; kmod-hp-iavf-4.6.1-1.rhel8u6.x86_64.rpm; README

Important Note!

HPE recommends the firmware provided below,

- HPE Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.27.0 or later, for use with these drivers.
- Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.27.0 or later, for use with these drivers.
- Intel Firmware Package For E810, version 4.10 or later, for use with these drivers.

Fixes

- This product fixes an issue where it has race condition between iavf_open and iavf_handle_hw_reset
- This product fixes an crash issue in iavf_suspend
- This product fixes VF stuck in reset.

Enhancements

- This product enhanced the wating time to wait MTU change.
- This product enhanced ability to turn off CRC stripping for VF

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 563i Adapter
- HPE Ethernet 10Gb 2-port 568FLR-MMSFP+ Adapter
- HPE Ethernet 10Gb 2-port 568FLR-MMT Adapter
- HPE Ethernet 10Gb 2-port 568i Adapter
- HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter
- HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter
- Intel E810-2CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE
- Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE
- Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE
- Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE
- Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE
- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 MCLK Adapter for HPE
- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

HPE Intel iavf Drivers for Red Hat Enterprise Linux 9
Version: 4.6.1-1 **(Recommended)**
Filename: kmod-hp-iavf-4.6.1-1.rhel9u0.x86_64.compsig; kmod-hp-iavf-4.6.1-1.rhel9u0.x86_64.rpm; README

Important Note!

HPE recommends the firmware provided below,

- HPE Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.27.0 or later, for use with these drivers.
- Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.27.0 or later, for use with these drivers.
- Intel Firmware Package For E810, version 4.10 or later, for use with these drivers.

Fixes

- This product fixes an issue where it has race condition between iavf_open and iavf_handle_hw_reset
- This product fixes an crash issue in iavf_suspend
- This product fixes VF stuck in reset.

Enhancements

- This product enhanced the wating time to wait MTU change.
- This product enhanced ability to turn off CRC stripping for VF

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 563i Adapter
- HPE Ethernet 10Gb 2-port 568FLR-MMSFP+ Adapter
- HPE Ethernet 10Gb 2-port 568FLR-MMT Adapter
- HPE Ethernet 10Gb 2-port 568i Adapter
- HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter
- HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter
- Intel E810-2CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE
- Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE
- Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE
- Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE
- Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE
- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 MCLK Adapter for HPE
- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

HPE Intel iavf Drivers for SUSE Linux Enterprise Server 15
Version: 4.6.1-1 **(Recommended)**
Filename: hp-iavf-kmp-default-4.6.1_k5.14.21_150400.22-1.sles15sp4.x86_64.compsig; hp-iavf-kmp-default-4.6.1_k5.14.21_150400.22-1.sles15sp4.x86_64.rpm; hp-iavf-kmp-default-4.6.1_k5.3.18_57-1.sles15sp3.x86_64.compsig; hp-iavf-kmp-default-4.6.1_k5.3.18_57-1.sles15sp3.x86_64.rpm; README

Important Note!

HPE recommends the firmware provided below,

- HPE Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.27.0 or later, for use with these drivers.
- Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.27.0 or later, for use with these drivers.
- Intel Firmware Package For E810, version 4.10 or later, for use with these drivers.

Fixes

- This product fixes an issue where it has race condition between iavf_open and iavf_handle_hw_reset
- This product fixes an crash issue in iavf_suspend
- This product fixes VF stuck in reset.
- This product fixes an issue where it has conflict with Mellanox or other network drivers. Please also update hpe-auxiliary RPM to v.1.0.3 for sles15sp3
- This product correct an issue which the RPM metadata missing pci-id

Enhancements

- This product enhanced the wating time to wait MTU change.
- This product enhanced ability to turn off CRC stripping for VF

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 563i Adapter
- HPE Ethernet 10Gb 2-port 568FLR-MMSFP+ Adapter
- HPE Ethernet 10Gb 2-port 568FLR-MMT Adapter
- HPE Ethernet 10Gb 2-port 568i Adapter
- HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter

- HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter
- Intel E810-2CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE
- Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE
- Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE
- Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE
- Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE
- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 MCLK Adapter for HPE
- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

HPE Intel igb Drivers for Red Hat Enterprise Linux 8
Version: 6.12.3-1 **(Recommended)**
Filename: kmod-hp-igb-6.12.3-1.rhel8u5.x86_64.compsig; kmod-hp-igb-6.12.3-1.rhel8u5.x86_64.rpm; kmod-hp-igb-6.12.3-1.rhel8u6.x86_64.compsig; kmod-hp-igb-6.12.3-1.rhel8u6.x86_64.rpm; README

Fixes

This product fix an issue where it has warning message during compilation

Supported Devices and Features

These drivers support the following network adapters:

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

HPE Intel igb Drivers for Red Hat Enterprise Linux 9
Version: 5.12.3-1 **(Recommended)**
Filename: kmod-hp-igb-5.12.3-1.rhel9u0.x86_64.compsig; kmod-hp-igb-5.12.3-1.rhel9u0.x86_64.rpm; README

Fixes

This product fix an issue where it has warning message during compilation

Supported Devices and Features

These drivers support the following network adapters:

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

HPE Intel igb Drivers for SUSE Linux Enterprise Server 15
Version: 6.12.3-1 **(Recommended)**

Filename: hp-igb-kmp-default-6.12.3_k5.14.21_150400.22-1.sles15sp4.x86_64.compsig; hp-igb-kmp-default-6.12.3_k5.14.21_150400.22-1.sles15sp4.x86_64.rpm; hp-igb-kmp-default-6.12.3_k5.3.18_57-1.sles15sp3.x86_64.compsig; hp-igb-kmp-default-6.12.3_k5.3.18_57-1.sles15sp3.x86_64.rpm; README

Fixes

- This product fix an issue where it has warning message during compilation
- This product correct an issue which the RPM metadata missing pci-id

Supported Devices and Features

These drivers support the following network adapters:

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

HPE Intel igbn Driver for VMware vSphere 7.0
Version: 2023.03.00 **(Recommended)**
Filename: cp055476.compsig; cp055476.zip

Important Note!

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

HPE recommends the firmware provided in *HPE Intel Online Firmware Upgrade Utility for VMware*, version 3.20.0 or later, for use with this driver.

Enhancements

This product now supports the following new server.

HPE ProLiant DL560 Gen11 Server
HPE ProLiant DL110 Gen11 Server
HPE ProLiant ML110 Gen11 Server

Supported Devices and Features

These drivers support the following network adapters:

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

HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 8 Update 6 (x86_64)
Version: 5.8 **(Recommended)**
Filename: kmod-mlnx-ofa_kernel-5.8-OFED.5.8.1.1.2.1.rhel8u6.x86_64.compsig; kmod-mlnx-ofa_kernel-5.8-OFED.5.8.1.1.2.1.rhel8u6.x86_64.rpm; mlnx-ofa_kernel-5.8-OFED.5.8.1.1.2.1.rhel8u6.x86_64.compsig; mlnx-ofa_kernel-5.8-OFED.5.8.1.1.2.1.rhel8u6.x86_64.rpm

Important Note!

Mellanox Ethernet + RoCE Linux driver (mlnx-ofa_kernel RPMs) supports only Ethernet mode of operation with RoCE (RDMA over Converged Ethernet) functionality for HPE Mellanox Ethernet-only adapters and HPE Mellanox VPI (Virtual Protocol Interconnect) adapters configured to operate in Ethernet mode. For customers requiring complete InfiniBand functionality or "InfiniBand + Ethernet" modes of operation on the same node, install HPE signed MLNX-OFED drivers from Linux Software Delivery Repository (https://downloads.linux.hpe.com/SDR/project/mlnx_ofed_cx4plus/).

Fixes

The following issues have been fixed in version 5.8:

- The redundant freeing of a list item could lead to memory corruption, potentially causing the application to crash or incorrect traffic handling.
- The host driver probe did not check whether there are existing SFs which are present in the device, causing the host driver to not recreate those SFs.
- The kernel went into panic mode if there were multiple encapsulations and not all neighbors were valid.

Enhancements

No new features or changes have been included in version 5.8.

Supported Devices and Features

SUPPORTED KERNELS:

The kernels of Red Hat Enterprise Linux 8 update 6(x86_64) supported by this binary rpm are:
4.18.0-372.9.1.el8 - (x86_64) and future update kernels.

HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 8 Update 7 (x86_64)
Version: 5.8 **(Recommended)**
Filename: kmod-mlnx-ofa_kernel-5.8-OFED.5.8.1.1.2.1.rhel8u7.x86_64.compsig; kmod-mlnx-ofa_kernel-5.8-OFED.5.8.1.1.2.1.rhel8u7.x86_64.rpm; mlnx-ofa_kernel-5.8-OFED.5.8.1.1.2.1.rhel8u7.x86_64.compsig; mlnx-ofa_kernel-5.8-OFED.5.8.1.1.2.1.rhel8u7.x86_64.rpm

Important Note!

Mellanox Ethernet + RoCE Linux driver (mlnx-ofa_kernel RPMs) supports only Ethernet mode of operation with RoCE (RDMA over Converged Ethernet) functionality for HPE Mellanox Ethernet-only adapters and HPE Mellanox VPI (Virtual Protocol Interconnect) adapters configured to operate in Ethernet mode. For customers requiring complete InfiniBand functionality or "InfiniBand + Ethernet" modes of operation on the same node, install HPE signed MLNX-OFED drivers from Linux Software Delivery Repository (https://downloads.linux.hpe.com/SDR/project/mlnx_ofed_cx4plus/).

Fixes

The following issues have been fixed in version 5.8:

- The redundant freeing of a list item could lead to memory corruption, potentially causing the application to crash or incorrect traffic handling.
- The host driver probe did not check whether there are existing SFs which are present in the device, causing the host driver to not recreate those SFs.
- The kernel went into panic mode if there were multiple encapsulations and not all neighbors were valid.

Enhancements

No new features or changes have been included in version 5.8.

Supported Devices and Features

SUPPORTED KERNELS:

The kernels of Red Hat Enterprise Linux 8 update 7(x86_64) supported by this binary rpm are: 4.18.0-425.3.1.el8 (x86_64) and future update kernels.

HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 9 Update 0 (x86_64)
Version: 5.8 **(Recommended)**
Filename: kmod-mlnx-ofa_kernel-5.8-OFED.5.8.1.1.2.1.202212170754.rhel9u0.x86_64.compsig; kmod-mlnx-ofa_kernel-5.8-OFED.5.8.1.1.2.1.202212170754.rhel9u0.x86_64.rpm; mlnx-ofa_kernel-5.8-OFED.5.8.1.1.2.1.rhel9u0.x86_64.compsig; mlnx-ofa_kernel-5.8-OFED.5.8.1.1.2.1.rhel9u0.x86_64.rpm

Important Note!

Mellanox Ethernet + RoCE Linux driver (mlnx-ofa_kernel RPMs) supports only Ethernet mode of operation with RoCE (RDMA over Converged Ethernet) functionality for HPE Mellanox Ethernet-only adapters and HPE Mellanox VPI (Virtual Protocol Interconnect) adapters configured to operate in Ethernet mode. For customers requiring complete InfiniBand functionality or "InfiniBand + Ethernet" modes of operation on the same node, install HPE signed MLNX-OFED drivers from Linux Software Delivery Repository (https://downloads.linux.hpe.com/SDR/project/mlnx_ofed_cx4plus/).

Fixes

The following issues have been fixed in version 5.8:

- The redundant freeing of a list item could lead to memory corruption, potentially causing the application to crash or incorrect traffic handling.
- The host driver probe did not check whether there are existing SFs which are present in the device, causing the host driver to not recreate those SFs.
- The kernel went into panic mode if there were multiple encapsulations and not all neighbors were valid.

Enhancements

No new features or changes have been included in version 5.8.

Supported Devices and Features

SUPPORTED KERNELS:

The kernels of Red Hat Enterprise Linux 9 update 0(x86_64) supported by this binary rpm are: 5.14.0-70.22.1.el9_0 - (x86_64) and future update kernels.

HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 9 Update 1 (x86_64)
Version: 5.8 **(Recommended)**
Filename: kmod-mlnx-ofa_kernel-5.8-OFED.5.8.1.1.2.1.rhel9u1.x86_64.compsig; kmod-mlnx-ofa_kernel-5.8-OFED.5.8.1.1.2.1.rhel9u1.x86_64.rpm; mlnx-ofa_kernel-5.8-OFED.5.8.1.1.2.1.rhel9u1.x86_64.compsig; mlnx-ofa_kernel-5.8-OFED.5.8.1.1.2.1.rhel9u1.x86_64.rpm

Important Note!

Mellanox Ethernet + RoCE Linux driver (mlnx-ofa_kernel RPMs) supports only Ethernet mode of operation with RoCE (RDMA over Converged Ethernet) functionality for HPE Mellanox Ethernet-only adapters and HPE Mellanox VPI (Virtual Protocol Interconnect) adapters configured to operate in Ethernet mode. For customers requiring complete InfiniBand functionality or "InfiniBand + Ethernet"

modes of operation on the same node, install HPE signed MLNX-OFED drivers from Linux Software Delivery Repository (https://downloads.linux.hpe.com/SDR/project/mlnx_ofed_cx4plus/).

Fixes

The following issues have been fixed in version 5.8:

- The redundant freeing of a list item could lead to memory corruption, potentially causing the application to crash or incorrect traffic handling.
- The host driver probe did not check whether there are existing SFs which are present in the device, causing the host driver to not recreate those SFs.
- The kernel went into panic mode if there were multiple encapsulations and not all neighbors were valid.

Enhancements

No new features or changes have been included in version 5.8.

Supported Devices and Features

SUPPORTED KERNELS:

The kernels of Red Hat Enterprise Linux 9 update 1(x86_64) supported by this binary rpm are: 5.14.0-162.6.1.el9_1 - (x86_64) and future update kernels.

HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for SUSE LINUX Enterprise Server 15 SP4 (AMD64/EM64T)
Version: 5.8 **(Recommended)**
Filename: mlnx-ofa_kernel-5.8-OFED.5.8.1.1.2.1.sles15sp4.x86_64.compsig; mlnx-ofa_kernel-5.8-OFED.5.8.1.1.2.1.sles15sp4.x86_64.rpm; mlnx-ofa_kernel-kmp-default-5.8_k5.14.21_150400.22-OFED.5.8.1.1.2.1.sles15sp4.x86_64.compsig; mlnx-ofa_kernel-kmp-default-5.8_k5.14.21_150400.22-OFED.5.8.1.1.2.1.sles15sp4.x86_64.rpm

Important Note!

Mellanox Ethernet + RoCE Linux driver (mlnx-ofa_kernel RPMs) supports only Ethernet mode of operation with RoCE (RDMA over Converged Ethernet) functionality for HPE Mellanox Ethernet-only adapters and HPE Mellanox VPI (Virtual Protocol Interconnect) adapters configured to operate in Ethernet mode. For customers requiring complete InfiniBand functionality or "InfiniBand + Ethernet" modes of operation on the same node, install HPE signed MLNX-OFED drivers from Linux Software Delivery Repository (https://downloads.linux.hpe.com/SDR/project/mlnx_ofed_cx4plus/).

Prerequisites

Following packages must be installed from the respective OS distributions prior to installing the driver component:

- Python version 2.7

Fixes

The following issues have been fixed in version 5.8:

- The redundant freeing of a list item could lead to memory corruption, potentially causing the application to crash or incorrect traffic handling.
- The host driver probe did not check whether there are existing SFs which are present in the device, causing the host driver to not recreate those SFs.
- The kernel went into panic mode if there were multiple encapsulations and not all neighbors were valid.

Enhancements

No new features or changes have been included in version 5.8.

Supported Devices and Features

SUPPORTED KERNELS:

The kernels of SUSE LINUX Enterprise Server 15 SP4 (AMD64/EM64T) supported by this binary rpm are:
5.14.21-150400.22-default - (AMD64/EM64T) and future update kernels.

Intel i350 Driver for Windows Server 2019
Version: 12.18.13.0 (C) **(Recommended)**
Filename: cp055495.compsig; cp055495.exe

Important Note!

HPE recommends the firmware provided in *Intel Online Firmware Upgrade Utility for Windows Server x64 Editions*, version 5.3.3.0 or later, for use with this driver.

Fixes

This product correct an issue which fixes BSOD(bugcheck NMI_HARDWARE_FAILURE) when driver installation on AMD platforms

Supported Devices and Features

This driver supports the following HPE Intel E1R network adapters:

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

Intel i350 Driver for Windows Server 2022
Version: 13.0.13.0 (C) **(Recommended)**
Filename: cp055981.compsig; cp055981.exe

Important Note!

HPE recommends the firmware provided in *Intel Online Firmware Upgrade Utility for Windows Server x64 Editions*, version 5.3.3.0 or later, for use with this driver.

Fixes

This product correct an issue which the component can't read the current driver version.

Supported Devices and Features

This driver supports the following HPE Intel E1R network adapters:

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

Intel iavf Driver for Windows Server 2019
Version: 1.13.8.0 (C) **(Recommended)**
Filename: cp054095.compsig; cp054095.exe

Important Note!

HPE recommends the firmware provided in *Intel Online Firmware Upgrade Utility for Windows Server x64 Editions*, version 5.3.2.0 or later, for use with this driver.

Prerequisites

This driver requires host driver version the following:

- Intel i40ea Driver version 1.16.202.0 or later.
- Intel icea Driver version 1.12.144.0 or later.

Enhancements

This product now supports HPE ProLiant Gen11 Platforms with Intel processors

Supported Devices and Features

This product supports the following Intel VFnetwork adapters:

- HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter
- HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter
- Intel E810-2CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE
- Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE
- Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE
- Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE
- Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE
- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

Intel iavf Driver for Windows Server 2022
Version: 1.13.8.0 (D) **(Recommended)**
Filename: cp055982.compsig; cp055982.exe

Important Note!

HPE recommends the firmware provided in *Intel Online Firmware Upgrade Utility for Windows Server x64 Editions*, version 5.3.3.0 or later, for use with this driver.

Prerequisites

This driver requires host driver version the following:

- Intel i40ea Driver version 1.16.206.3 or later.
- Intel icea Driver version 1.12.148.0 or later.

Fixes

This product correct an issue which the component can't read the current driver version.

Supported Devices and Features

This product supports the following Intel VFnetwork adapters:

- HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter
- HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter
- Intel E810-2CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE
- Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE
- Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE
- Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE
- Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE

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

Intel ice Drivers for Red Hat Enterprise Linux 8
Version: 1.10.1.2-1 **(Recommended)**
Filename: kmod-ice-1.10.1.2-1.rhel8u5.x86_64.compsig; kmod-ice-1.10.1.2-1.rhel8u5.x86_64.rpm; kmod-ice-1.10.1.2-1.rhel8u6.x86_64.compsig; kmod-ice-1.10.1.2-1.rhel8u6.x86_64.rpm; README

Important Note!

HPE recommends the firmware provided in *Intel Firmware Package For E810 Ethernet Adapter,* version 4.10 or later, for use with these drivers.

Enhancements

This product enhanced the availability of debugfs functionality when UEFI Secure Boot is enabled

Supported Devices and Features

This product supports the following network adapters:

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

Intel ice Drivers for Red Hat Enterprise Linux 9
Version: 1.10.1.2-1 **(Recommended)**
Filename: kmod-ice-1.10.1.2-1.rhel9u0.x86_64.compsig; kmod-ice-1.10.1.2-1.rhel9u0.x86_64.rpm; README

Important Note!

HPE recommends the firmware provided in *Intel Firmware Package For E810 Ethernet Adapter,* version 4.10 or later, for use with these drivers.

Enhancements

This product enhanced the availability of debugfs functionality when UEFI Secure Boot is enabled

Supported Devices and Features

This product supports the following network adapters:

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

Intel ice Drivers for SUSE Linux Enterprise Server 15
Version: 1.10.1.2-1 **(Recommended)**

Filename: ice-kmp-default-1.10.1.2_k5.14.21_150400.22-1.sles15sp4.x86_64.compsig; ice-kmp-default-1.10.1.2_k5.14.21_150400.22-1.sles15sp4.x86_64.rpm; ice-kmp-default-1.10.1.2_k5.3.18_57-1.sles15sp3.x86_64.compsig; ice-kmp-default-1.10.1.2_k5.3.18_57-1.sles15sp3.x86_64.rpm; README

Important Note!

HPE recommends the firmware provided in *Intel Firmware Package For E810 Ethernet Adapter,* version 4.10 or later, for use with these drivers.

Fixes

- This product fixes an issue where it has conflict with Mellanox or other network drivers. Please also update hpe-auxiliary RPM to v.1.0.3 for sles15sp3
- This product correct an issue which the RPM metadata missing pci-id

Enhancements

This product enhanced the availability of debugfs functionality when UEFI Secure Boot is enabled

Supported Devices and Features

This product supports the following network adapters:

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

Intel icea Driver for Microsoft Windows Server 2022
Version: 1.12.148.0 **(Recommended)**
Filename: cp055478.compsig; cp055478.exe

Important Note!

HPE recommends the firmware provided in *Intel Firmware Package for Columbiaville* (FWPKG), version 4.10 or later, for use with this driver.

Enhancements

- This product enhanced the compatibility with firmware of CVL4.1.
- This product now supports the following new server.

  HPE ProLiant DL560 Gen11 Server
  HPE ProLiant DL110 Gen11 Server
  HPE ProLiant ML110 Gen11 Server

Supported Devices and Features

This driver supports the following HPE Intel ICEA network adapters:

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

Intel icea Driver for Windows Server 2019
Version: 1.12.148.0 **(Recommended)**
Filename: cp055477.compsig; cp055477.exe

Important Note!

HPE recommends the firmware provided in *Intel Firmware Package for Columbiaville* (FWPKG), version 4.10 or later, for use with this driver.

Enhancements

- This product enhanced the compatibility with firmware of CVL4.1.
- This product now supports the following new server.

  HPE ProLiant DL560 Gen11 Server
  HPE ProLiant DL110 Gen11 Server
  HPE ProLiant ML110 Gen11 Server

Supported Devices and Features

This driver supports the following HPE Intel ICEA network adapters:

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

Intel icen Driver for VMware vSphere 7.0
Version: 2023.03.00 **(Recommended)**
Filename: cp055475.compsig; cp055475.zip

Important Note!

- This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.
- HPE recommends the firmware provided in *Intel Firmware Package For E810 Ethernet Adapter*, version 4.10 or later, for use with this driver.

Enhancements

This product enhanced the compatibility with firmware of CVL4.1.

Supported Devices and Features

This product supports the following network adapters:

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

Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 "nmlx5_en" Driver Component for VMware ESXi 7.0 Update 3
Version: 2022.11.09 **(Recommended)**
Filename: cp054875.compsig; cp054875.zip

Important Note!

Important: Version 4.22.73.1004 supports VMware ESXi 7.0 Update 3 only.

Known Issues with driver version 4.22.73.1004:

- A mismatch between the uplink and the VF MTU values may result in CQE with error.
  Workaround:: Align the uplink and the VF MTU values.
- Enabling sriov_mc_isolation module parameter may result in vmknic and emulated NICs multicast and IPv6 traffic loss.
  Workaround: Unset or set the module parameter to 0.
- RDMA is not supported in the Hypervisor with ENS (Enhanced Network Stack) model 2.
- 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.
- ECN (Explicit congestion notification) statistic counters accumulatorsPeriod and ecnMarkedRocePackets display wrong values and cannot be cleared.
- ECN tunable parameter initialAlphaValue for the Reaction Point protocol cannot be modified.
- Card's speed remains zero after port goes down and reboot is performed.
- RoCE traffic may fail after vMotion when using namespace.
- Legacy SR-IOV is not supported with Model 1.
- When in ENS mode, changing the scheduler to HCLK, may cause traffic loss.
- The 'esxcli mellanox uplink link info -u <vmnic_name>' command reports the 'Auto negotiation' capability always as 'true'.
- 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 devices:
  - ConnectX-4 / ConnectX-5: up to 127

Fixes

Fixes included in driver version 4.22.73.1004:

- Fixed an issue that caused a ParaVirtual VM to lose traffic after resuming from the suspend mode when SR-IOV was enabled in the system.
- Cleaned steering rule from FDB when VF is being quiesced.
- Fixed an issue that caused the driver to configure the incorrect SL value for RoCE with RDMACM.

Enhancements

New features and changes in driver version 4.22.73.1004:

- Firmware CR dump will now be collected automatically into ZDUMP PSOD or on livedump for debuggability purposes.
- Enabled the driver to read the temperature from private statistics.

  To see the temperature, run:*# nsxdp-cli ens uplink stats get -n vmnic1 | grep -i asicSensorTemperature*

- Added support for Hardware Accelerated GENEVE and VXLAN encapsulation and decapsulation for RoCE traffic.
- Hardware accelerated flows can now be mirrored using the standard packet capture tools.
- Added the ability to offload NSX Distributed Firewall rules by using in-hardware tracking of packet flows.
- RSS support for ENS Model 1 improves performance using fewer CPU cores. This capability can be enabled using the "netq_rss_ens" module parameter.

Supported Devices and Features

HPE Part Number	Device Name	PSID
P24837-B21	HPE Ethernet 10/25Gb 2-port 642SFP28 Adapter	HPE0000000054
P11338-B21	HPE Ethernet 10Gb 2-port 548SFP+ Adapter	HP_1200111023
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
817749-B21	HPE Ethernet 10/25Gb 2-port FLR-SFP28 MCX4121A-ACFT Adapter	HP_2690110034
817753-B21	HPE Ethernet 10/25Gb 2-port SFP28 MCX4121A-ACUT Adapter	HP_2420110034
P21927-B21	HPE Ethernet 100Gb 2-port QSFP28 MCX516A-CCHT Adapter	MT_0000000417
P10112-B21	Mellanox MCX562A-ACAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	MT_0000000241
P13188-B21	Mellanox MCX512F-ACHT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	MT_0000000416
P11341-B21	HPE Ethernet 10Gb 2-port SFP+ MCX4621A-ACAB OCP3 Adapter	MT_0000000238
P21930-B21	HPE Ethernet 10Gb 2-port SFP+ MCX4121A-XCHT Adapter	MT_0000000414
874253-B21	HPE Ethernet 100Gb 1-port QSFP28 MCX515A-CCAT Adapter	HPE0000000014
P25960-B21	Mellanox MCX623106AS-CDAT Ethernet 100Gb 2-port QSFP56 Adapter for HPE	MT_0000000437
P06154-B21	HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe3 x16 MCX653105A-HDAT Adapter	HPE0000000034
P06250-B21	HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe3 x16 MCX653105A-ECAT Adapter	HPE0000000035
P06251-B21	HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe3 x16 MCX653106A-ECAT Adapter	HPE0000000036
P23664-B21	HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 MCX653105A-HDAT Adapter	MT_0000000451
P23665-B21	HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe4 x16 MCX653105A-ECAT Adapter	MT_0000000452
P23666-B21	HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe4 x16 MCX653106A-ECAT Adapter	MT_0000000453
P10180-B21	Mellanox MCX623105AS-VDAT Ethernet 200Gb 1-port QSFP56 Adapter for HPE	MT_0000000435
P31246-B21	HPE Ethernet 100Gb 1-port QSFP28 PCIe3 x16 MCX515A-CCAT Adapter	MT_0000000591
P31323-B21	HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 OCP3 MCX653435A-HDAI Adapter	MT_0000000592
P31348-B21	HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 OCP3 MCX653436A-HDAI Adapter	MT_0000000593
P31324-B21	HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 MCX653106A-HDAT Adapter	MT_0000000594
P42041-B21	Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	MT_0000000551
P42044-B21	Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	MT_0000000575

Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2019
Version: 3.10.25798.0 **(Recommended)**
Filename: cp054855.compsig; cp054855.exe

Fixes

- This product fix an issue that caused the driver to crash if it the vPort ID greater than the maximum supported vPorts.

- This product fix an issue which the command returned an error although the link was up in ""mlx5cmd -linkspeed"". This happened when link up time exceeded 5 seconds.

Supported Devices and Features

This driver supports the following network adapters:

- HPE Ethernet 10/25Gb 2-port SFP28 MCX512F-ACHT Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 MCX562A-ACAI OCP3 Adapter
- HPE Ethernet 100Gb 2-Port QSFP56 MCX623106AS-CDAT Adapter
- HPE Ethernet 100Gb 2-port QSFP28 MCX516A-CCHT Adapter
- HPE Ethernet 10Gb 2-port SFP+ MCX4121A-XCHT Adapter
- HPE Ethernet 10Gb/25Gb 2-port SFP28 MCX4621A-ACAB OCP3 Adapter
- Mellanox MCX623105AS-VDAT Ethernet 200Gb 1-port QSFP56 Adapter for HPE
- Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE
- Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE

Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2022
Version: 3.10.25798.0 **(Recommended)**
Filename: cp054856.compsig; cp054856.exe

Fixes

- This product fix an issue that caused the driver to crash if it the vPort ID greater than the maximum supported vPorts.
- This product fix an issue which the command returned an error although the link was up in ""mlx5cmd -linkspeed"". This happened when link up time exceeded 5 seconds.

Supported Devices and Features

This driver supports the following network adapters:

- HPE Ethernet 10/25Gb 2-port SFP28 MCX512F-ACHT Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 MCX562A-ACAI OCP3 Adapter
- HPE Ethernet 100Gb 2-Port QSFP56 MCX623106AS-CDAT Adapter
- HPE Ethernet 100Gb 2-port QSFP28 MCX516A-CCHT Adapter
- HPE Ethernet 10Gb 2-port SFP+ MCX4121A-XCHT Adapter
- HPE Ethernet 10Gb/25Gb 2-port SFP28 MCX4621A-ACAB OCP3 Adapter
- Mellanox MCX623105AS-VDAT Ethernet 200Gb 1-port QSFP56 Adapter for HPE
- Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE
- Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE

Driver - Security Top

Intel QuickAssist Technology driver for Microsoft Windows
Version: 2.0.40.3 **(Recommended)**
Filename: cp056005.exe; cp056005_part1.compsig; cp056005_part2.compsig

Enhancements

- Added support for Intel SPR MCC CPU

Driver - Storage Controller Top

HPE Gen10 Smart Array and Gen10 Plus/Gen11 Smart RAID Controller (64-bit) Driver for Red Hat Enterprise Linux 8 (64-bit)
Version: 2.1.20-035 (C) **(Recommended)**

Filename: kmod-smartpqi-2.1.20-035.rhel8u5.x86_64.compsig; kmod-smartpqi-2.1.20-035.rhel8u5.x86_64.rpm; kmod-smartpqi-2.1.20-035.rhel8u6.x86_64.compsig; kmod-smartpqi-2.1.20-035.rhel8u6.x86_64.rpm

Enhancements

Support ML110 and DL560 Gen11 servers

HPE Gen10 Smart Array and Gen10 Plus/Gen11 Smart RAID Controller (64-bit) Driver for Red Hat Enterprise Linux 9 (64-bit)
Version: 2.1.20-035 (C) **(Recommended)**
Filename: kmod-smartpqi-2.1.20-035.rhel9u0.x86_64.compsig; kmod-smartpqi-2.1.20-035.rhel9u0.x86_64.rpm

Enhancements

Support ML110 and DL560 Gen11 servers

Supported Devices and Features

SUPPORTED KERNELS:
The kernels of Red Hat Enterprise Linux9 (64-bit) supported by this binary rpm are:
-default- Red Hat Enterprise Linux 9 Update 0 (64-bit).

HPE Gen10 Smart Array and Gen10 Plus/Gen11 Smart RAID Controller (64-bit) Driver for SUSE LINUX Enterprise Server 15 (64-bit)
Version: 2.1.20-035 (C) **(Recommended)**
Filename: smartpqi-kmp-default-2.1.20-035.sles15sp3.x86_64.compsig; smartpqi-kmp-default-2.1.20-035.sles15sp3.x86_64.rpm; smartpqi-kmp-default-2.1.20-035.sles15sp4.x86_64.compsig; smartpqi-kmp-default-2.1.20-035.sles15sp4.x86_64.rpm

Enhancements

Support ML110 and DL560 Gen11 servers

Supported Devices and Features

The kernels of SUSE LINUX Enterprise Server 15 (64-bit) supported by this driver diskette are:
-default - SUSE LINUX Enterprise Server 15 (64-bit) and future errata kernels

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HPE Gen10 Smart Array and Gen10 Plus/Gen11 Smart RAID Controller Driver for VMware vSphere 7.0 (Driver Component).
Version: 2023.04.01 **(Recommended)**
Filename: cp055511.compsig; cp055511.zip

Important Note!

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

Enhancements

Support ML110 and DL560 Gen11 servers

HPE Gen10 Smart Array and Gen10 Plus/Gen11 Smart RAID Controller Driver for VMware vSphere 8.0 (Driver Component).
Version: 2023.04.01 **(Recommended)**
Filename: cp055512.compsig; cp055512.zip

Important Note!

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

Enhancements

Support ML110 and DL560 Gen11 servers

HPE Gen10 Smart Array and Gen10 Plus/Gen11 Smart RAID Controller Driver for Windows Server 2016, Windows Server 2019 and Windows Server 2022
Version: 1010.64.0.1037 **(Recommended)**
Filename: cp056170.compsig; cp056170.exe

Fixes

Fix a BSOD issue when Sub-Numa Clustering(SNC4) is enabled.

Enhancements

Support DL560 and ML110 Gen11 server

HPE MR416i-a, MR416i-p, MR216i-a, MR216i-p, MR416i-o controller (64-bit) Driver for vSphere 7.0
Version: 7.722.02.00 (B) **(Recommended)**
Filename: Broadcom-lsi-mr3_7.722.02.00-1OEM.700.1.0.15843807_20225841.zip

Enhancements

Gen11 2023.02.00.00 Usage

HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller (64-bit) Driver for vSphere 7.0
Version: 2023.04.01 **(Recommended)**
Filename: cp055449.compsig; cp055449.zip

Important Note!

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

Enhancements

Support HPE ML110 and DL560 Gen11 servers

HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller Driver for Microsoft Windows 2019 edition
Version: 7.722.6.0 **(Recommended)**
Filename: cp055447.compsig; cp055447.exe

Enhancements

Support HPE ML110 and DL560 Gen11 servers

HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller driver for Microsoft Windows 2022 edition
Version: 7.722.6.0 (C) **(Recommended)**
Filename: cp055448.compsig; cp055448.exe

Enhancements

Support HPE ML110 and DL560 Gen11 servers

HPE ProLiant Gen11 Smart RAID Controller Driver for VMware vSphere 7.0 (Bundle file)
Version: 70.4380.0.108 **(Recommended)**
Filename: Microchip-smartpqi_70.4380.0.108-1OEM.700.1.0.15843807_20826503.zip

Enhancements

Gen11 2023.02.00.00,2023 March MSB Usage

HPE ProLiant Gen11 Smart RAID Controller Driver for VMware vSphere 8.0 (Bundle file)
Version: 80.4380.0.108 **(Recommended)**
Filename: Microchip-smartpqi_80.4380.0.108-1OEM.800.1.0.20613240_20828555.zip

Enhancements

Gen11 2023.02.00.00 ,2023 March MSB Usage

Driver - Storage Fibre Channel and Fibre Channel Over Ethernet Top

HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2019
Version: 14.0.534.0 (b) **(Recommended)**
Filename: cp054343.compsig; cp054343.exe

Prerequisites

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

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

Enhancements

Updated to driver version 14.0.534.0

The raw driver files can be obtained by extracting the Smart Component and then extracting the Emulex installer. Use this command:

elxdrvr-fc-version.exe /q2 extract=2

The extracted files are located:

C:\Users\Administrator\Documents\Emulex\Drivers\FC-version

Each kit folder has subsequent architecture folders with subsequent OS folders. For example,

C:\Users\Administrator\Documents\Emulex\Drivers\FC-version\x64\win2019

Supported Devices and Features

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

32Gb FC Adapter:

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

64Gb FC Adapter:

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

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HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2022
Version: 14.0.534.0 (b) **(Recommended)**
Filename: cp054344.compsig; cp054344.exe

Prerequisites

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

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

Enhancements

Updated to driver version 14.0.534.0

The raw driver files can be obtained by extracting the Smart Component and then extracting the Emulex installer. Use this command:

elxdrvr-fc-version.exe /q2 extract=2

The extracted files are located:

C:\Users\Administrator\Documents\Emulex\Drivers\FC-version

Each kit folder has subsequent architecture folders with subsequent OS folders. For example,

C:\Users\Administrator\Documents\Emulex\Drivers\FC-version\x64\win2022

Supported Devices and Features

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

32Gb FC Adapter:

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

64Gb FC Adapter:

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

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HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2019
Version: 9.4.6.20 (b) **(Recommended)**
Filename: cp054360.compsig; cp054360.exe

Important Note!

Release Notes:
HPE QLogic Adapters Release Notes

Prerequisites

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

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

Enhancements

Updated to version 9.4.6.20

Supported Devices and Features

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

32Gb Fibre Channel Host Bus Adapter:

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

64Gb Fibre Channel Host Bus Adapter:

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

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HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2022
Version: 9.4.6.20 (b) **(Recommended)**
Filename: cp054361.compsig; cp054361.exe

Prerequisites

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

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

Enhancements

Updated to version 9.4.6.20

Supported Devices and Features

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

32Gb Fibre Channel Host Bus Adapter:

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

64Gb Fibre Channel Host Bus Adapter:

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

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Red Hat Enterprise Linux 8 Update 6 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters
Version: 14.0.499.31 **(Recommended)**
Filename: kmod-elx-lpfc-14.0.499.31-1.rhel8u6.x86_64.compsig; kmod-elx-lpfc-14.0.499.31-1.rhel8u6.x86_64.rpm

Important Note!

Release Notes:
HPE Emulex Adapters Release Notes

Prerequisites

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

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

Enhancements

Updated to driver version 14.0.499.31

Supported Devices and Features

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

32Gb FC Adapter:

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

64Gb FC Adapter:

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

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Red Hat Enterprise Linux 8 Update 6 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapter
Version: 10.02.07.01-k1 **(Recommended)**
Filename: kmod-qlgc-qla2xxx-10.02.07.01_k1-2.rhel8u6.x86_64.compsig; kmod-qlgc-qla2xxx-10.02.07.01_k1-2.rhel8u6.x86_64.rpm

Important Note!

Release Notes:

HPE QLogic Adapters Release Notes

NOTE:

1. The rpm base-name for the QLogic driver has been changed to "qlgc". Upgrades from the earlier "hpqlgc" driver are supported.

Prerequisites

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

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

Enhancements

Updated to driver version 10.02.07.01-k1

Supported Devices and Features

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

32Gb Fibre Channel Host Bus Adapter:

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

64Gb Fibre Channel Host Bus Adapter:

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

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Red Hat Enterprise Linux 8 Update 7 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters
Version: 14.0.499.31 **(Recommended)**
Filename: kmod-elx-lpfc-14.0.499.31-1.rhel8u7.x86_64.compsig; kmod-elx-lpfc-14.0.499.31-1.rhel8u7.x86_64.rpm

Prerequisites

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

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

Enhancements

Updated to driver version 14.0.499.31

Supported Devices and Features

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

32Gb FC Adapter:

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

64Gb FC Adapter:

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

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Red Hat Enterprise Linux 8 Update 7 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters
Version: 10.02.08.01-k1 **(Recommended)**
Filename: kmod-qlgc-qla2xxx-10.02.08.01_k1-1.rhel8u7.x86_64.compsig; kmod-qlgc-qla2xxx-10.02.08.01_k1-1.rhel8u7.x86_64.rpm

Important Note!

Release Notes:

HPE QLogic Adapters Release Notes

NOTE:

1. The rpm base-name for the QLogic driver has been changed to "qlgc". Upgrades from the earlier "hpqlgc" driver are supported.

Prerequisites

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

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

Enhancements

Updated Driver version 10.02.08.01_k1-1

Supported Devices and Features

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

32Gb Fibre Channel Host Bus Adapter:

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

64Gb Fibre Channel Host Bus Adapter:

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

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Red Hat Enterprise Linux 9 Update 0 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters
Version: 14.0.499.31 **(Recommended)**
Filename: kmod-elx-lpfc-14.0.499.31-1.rhel9u0.x86_64.compsig; kmod-elx-lpfc-14.0.499.31-1.rhel9u0.x86_64.rpm

Prerequisites

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

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

Enhancements

Updated to driver version 14.0.499.31

Supported Devices and Features

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

32Gb FC Adapter:

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

64Gb FC Adapter:

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

---

Red Hat Enterprise Linux 9 Update 0 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters
Version: 10.02.07.01-k1 **(Recommended)**
Filename: kmod-qlgc-qla2xxx-10.02.07.01_k1-2.rhel9u0.x86_64.compsig; kmod-qlgc-qla2xxx-10.02.07.01_k1-2.rhel9u0.x86_64.rpm

Important Note!

Release Notes:

HPE QLogic Adapters Release Notes

NOTE:

1. The rpm base-name for the QLogic driver has been changed to "qlgc". Upgrades from the earlier "hpqlgc" driver are supported.

Prerequisites

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

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

Enhancements

updated to the version: 10.02.07.01_k1-2

Supported Devices and Features

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

32Gb Fibre Channel Host Bus Adapter:

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

64Gb Fibre Channel Host Bus Adapter:

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

---

Red Hat Enterprise Linux 9 Update 1 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters
Version: 14.0.499.31 **(Recommended)**
Filename: kmod-elx-lpfc-14.0.499.31-1.rhel9u1.x86_64.compsig; kmod-elx-lpfc-14.0.499.31-1.rhel9u1.x86_64.rpm

Prerequisites

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

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

Enhancements

Updated to driver version 14.0.499.31

Supported Devices and Features

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

32Gb FC Adapter:

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

64Gb FC Adapter:

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

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

---

Red Hat Enterprise Linux 9 Update 1 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters
Version: 10.02.08.01-k1 **(Recommended)**
Filename: kmod-qlgc-qla2xxx-10.02.08.01_k1-1.rhel9u1.x86_64.compsig; kmod-qlgc-qla2xxx-10.02.08.01_k1-1.rhel9u1.x86_64.rpm

Important Note!

Release Notes:

HPE QLogic Adapters Release Notes

NOTE:

1. The rpm base-name for the QLogic driver has been changed to "qlgc". Upgrades from the earlier "hpqlgc" driver are supported.

Prerequisites

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

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

Enhancements

Updated to driver version 10.02.08.01_k1-1

Supported Devices and Features

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

32Gb Fibre Channel Host Bus Adapter:

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

64Gb Fibre Channel Host Bus Adapter:

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

---

SuSE Linux Enterprise Server 15 Service Pack 4 Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters
Version: 14.0.499.31 **(Recommended)**
Filename: elx-lpfc-kmp-default-14.0.499.31_k5.14.21_150400.22-1.sles15sp4.x86_64.compsig; elx-lpfc-kmp-default-14.0.499.31_k5.14.21_150400.22-1.sles15sp4.x86_64.rpm

Important Note!

Release Notes:
HPE Emulex Adapters Release Notes

Rewrite of same Driver version has to be performed using --reinstall option

Example: rpm –Uvh elx-lpfc-kmp-default-<version>.<OSupdate>.x86_64.rpm --reinstall

For more information please refer to the Knowledge Base
at: https://www.suse.com/support/kb/doc/?id=000019640

Prerequisites

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

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

Enhancements

Updated to driver version 14.0.499.31

Supported Devices and Features

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

32Gb FC Adapter:

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

64Gb FC Adapter:

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

---

SuSE Linux Enterprise Server 15 Service Pack 4 Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters
Version: 10.02.07.01-k1 **(Recommended)**
Filename: qlgc-qla2xxx-kmp-default-10.02.07.01_k1_k5.14.21_150400.22-2.sles15sp4.x86_64.compsig; qlgc-qla2xxx-kmp-default-10.02.07.01_k1_k5.14.21_150400.22-2.sles15sp4.x86_64.rpm

Important Note!

NOTE:

1. Rewrite of same Driver version has to be performed using –force or --replacepkgs with --nodeps option

Example: rpm –Uvh kmod-qla2xxx-<version>.<OSupdate>.x86_64.rpm --force --nodeps

rpm –Uvh kmod-qla2xxx-<version>.<OSupdate>.x86_64.rpm --replacepkgs --nodeps

For more information please refer to the Knowledge Base
at: https://www.suse.com/support/kb/doc/?id=000019640

Prerequisites

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

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

Enhancements

Updated to driver version 10.02.07.01-k1

Supported Devices and Features

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

32Gb Fibre Channel Host Bus Adapter:

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

64Gb Fibre Channel Host Bus Adapter:

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

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Driver - System Management Top

iLO 6 Automatic Server Recovery Driver for Microsoft Windows Server 2019
Version: 4.7.1.0 (B) **(Recommended)**
Filename: cp054300.compsig; cp054300.exe

Enhancements

- Added support for Intel platforms

---

iLO 6 Automatic Server Recovery Driver for Microsoft Windows Server 2022
Version: 4.7.1.0 (B) **(Recommended)**
Filename: cp054302.compsig; cp054302.exe

Enhancements

- Added support for Intel platforms

---

iLO 6 Channel Interface Driver for Microsoft Windows Server 2019
Version: 4.7.1.0 **(Recommended)**
Filename: cp053254.compsig; cp053254.exe

Enhancements

Initial release.

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iLO 6 Channel Interface Driver for Microsoft Windows Server 2019

Version: 4.7.1.0 (B) **(Recommended)**
Filename: cp054299.compsig; cp054299.exe

Enhancements

- Added support for Intel platforms

---

iLO 6 Channel Interface Driver for Microsoft Windows Server 2022
Version: 4.7.1.0 **(Recommended)**
Filename: cp053256.compsig; cp053256.exe

Enhancements

Initial release.

---

iLO 6 Channel Interface Driver for Microsoft Windows Server 2022
Version: 4.7.1.0 (B) **(Recommended)**
Filename: cp054301.compsig; cp054301.exe

Enhancements

- Added support for Intel platforms

Driver - Video Top

Matrox G200eH3 Video Controller Driver for Microsoft Windows Server 2019 and 2022
Version: 9.15.1.248 **(Recommended)**
Filename: cp054298.compsig; cp054298.exe

Enhancements

- Added support for Gen11 platforms

Firmware - Lights-Out Management Top

Online ROM Flash Component for Linux - HPE Integrated Lights-Out 6
Version: 1.30 **(Optional)**
Filename: RPMS/x86_64/firmware-ilo6-1.30-1.1.x86_64.rpm; RPMS/x86_64/firmware-ilo6-1.30-1.1.x86_64_part1.compsig; RPMS/x86_64/firmware-ilo6-1.30-1.1.x86_64_part2.compsig

Important Note!

IPv6 network communications - Dedicated network connection only
Supported Networking Features
IPv6 Static Address Assignment
IPv6 SLAAC Address Assignment
IPv6 Static Route Assignment
IPv6 Static Default Gateway Entry
DHCPv6 Stateful Address Assignment
DHCPv6 Stateless DNS, Domain Name, and NTP Configuration
Integrated Remote Console
OA Single Sign-On
HP-SIM Single Sign-On
Web Server
SSH Server
SNTP Client
DDNS Client
RIBCL over IPv6
SNMP
AlertMail
Remote Syslog

WinDBG Support
HPONCFG/HPLOMIG over an IPv6 connection
Scriptable Virtual Media
CLI/RIBCL Key Import over IPv6
Authentication using LDAP and Kerberos over IPv6
iLO Federation

Networking Features not supported by IPv6 in this release
IPv6 Over Shared Network Port Connections
IPMI
NETBIOS-WINS
Enterprise Secure Key Manager (ESKM) Support
Embedded Remote Support (ERS)

Prerequisites

Hewlett Packard Enterprise recommends the following or greater versions of iLO utilities for best performance:

- RESTful Interface Tool (iLOREST) 4.1.0
- HPQLOCFG v6.0.0
- Lights-Out XML Scripting Sample bundle 6.00.0
- HPONCFG Windows 6.0.0
- HPONCFG Linux 6.0.0
- LOCFG v6.00.0 or later
- HPLOMIG 6.0.0

NOTE: Updated utilities and system libraries are required to support the iLO High Security, FIPS, and CNSA security states.

Fixes

- Updated utilities and system libraries are required to support the iLO High Security, FIPS, and CNSA security states.
- Latest iLO 6 features are not supported by RIBCL or the CLI.
- Hewlett Packard Enterprise recommends the use of the iLO RESTful API, particularly for setting the iLO security state and configuring extended user privileges.
- The iLO RESTful API is the preferred programmatic interface for Gen10, Gen10+ and Gen11 systems.
- The preferred CLI and scripting tool is the RESTful Interface Tool (iLOREST).

Enhancements

- CBM Support (connect without PCID)
- CBM Support (Nex reboot auto connect)
- DL560 - Display multi-CPLDs revision on RBSU and iLO web
- Gen11 MUXed CPLD updates
- Liquid cooling support on DL560 platforms with 2 CPLDs and 2 CPUs
- iLO to support virtual media mounts

Online ROM Flash Component for Windows x64 - HPE Integrated Lights-Out 6
Version: 1.30 **(Optional)**
Filename: cp054723.exe; cp054723_part1.compsig; cp054723_part2.compsig

Important Note!

IPv6 network communications - Dedicated network connection only
Supported Networking Features
IPv6 Static Address Assignment
IPv6 SLAAC Address Assignment
IPv6 Static Route Assignment
IPv6 Static Default Gateway Entry
DHCPv6 Stateful Address Assignment
DHCPv6 Stateless DNS, Domain Name, and NTP Configuration
Integrated Remote Console

OA Single Sign-On
HP-SIM Single Sign-On
Web Server
SSH Server
SNTP Client
DDNS Client
RIBCL over IPv6
SNMP
AlertMail
Remote Syslog
WinDBG Support
HPONCFG/HPLOMIG over an IPv6 connection
Scriptable Virtual Media
CLI/RIBCL Key Import over IPv6
Authentication using LDAP and Kerberos over IPv6
iLO Federation

Networking Features not supported by IPv6 in this release

IPv6 Over Shared Network Port Connections
IPMI
NETBIOS-WINS
Enterprise Secure Key Manager (ESKM) Support
Embedded Remote Support (ERS)

Prerequisites

Hewlett Packard Enterprise recommends the following or greater versions of iLO utilities for best performance:

- RESTful Interface Tool (iLOREST) 4.1.0
- HPQLOCFG v6.0.0
- Lights-Out XML Scripting Sample bundle 6.00.0
- HPONCFG Windows 6.0.0
- HPONCFG Linux 6.0.0
- LOCFG v6.00.0 or later
- HPLOMIG 6.0.0

NOTE: Updated utilities and system libraries are required to support the iLO High Security, FIPS, and CNSA security states.

Fixes

- Updated utilities and system libraries are required to support the iLO High Security, FIPS, and CNSA security states.
- Latest iLO 6 features are not supported by RIBCL or the CLI.
- Hewlett Packard Enterprise recommends the use of the iLO RESTful API, particularly for setting the iLO security state and configuring extended user privileges.
- The iLO RESTful API is the preferred programmatic interface for Gen10, Gen10+ and Gen11 systems.
- The preferred CLI and scripting tool is the RESTful Interface Tool (iLOREST).

Enhancements

- CBM Support (connect without PCID)
- CBM Support (Nex reboot auto connect)
- DL560 - Display multi-CPLDs revision on RBSU and iLO web
- Gen11 MUXed CPLD updates
- Liquid cooling support on DL560 platforms with 2 CPLDs and 2 CPUs
- iLO to support virtual media mounts

Online ROM Flash Firmware Package - HPE Integrated Lights-Out 6
Version: 1.30 **(Optional)**
Filename: ilo6_130.fwpkg

Important Note!

IPv6 network communications - Dedicated network connection only

Supported Networking Features

- IPv6 Static Address Assignment
- IPv6 SLAAC Address Assignment
- IPv6 Static Route Assignment
- IPv6 Static Default Gateway Entry
- DHCPv6 Stateful Address Assignment
- DHCPv6 Stateless DNS, Domain Name, and NTP Configuration
- Integrated Remote Console
- OA Single Sign-On
- HP-SIM Single Sign-On
- Web Server
- SSH Server
- SNTP Client
- DDNS Client
- RIBCL over IPv6
- SNMP
- AlertMail
- Remote Syslog
- WinDBG Support
- HPONCFG/HPLOMIG over an IPv6 connection
- Scriptable Virtual Media
- CLI/RIBCL Key Import over IPv6
- Authentication using LDAP and Kerberos over IPv6
- iLO Federation

Networking Features not supported by IPv6 in this release

- IPv6 Over Shared Network Port Connections
- IPMI
- NETBIOS-WINS
- Enterprise Secure Key Manager (ESKM) Support
- Embedded Remote Support (ERS)

Prerequisites

Hewlett Packard Enterprise recommends the following or greater versions of iLO utilities for best performance:

- RESTful Interface Tool (iLOREST) 4.1.0
- HPQLOCFG v6.0.0
- Lights-Out XML Scripting Sample bundle 6.00.0
- HPONCFG Windows 6.0.0
- HPONCFG Linux 6.0.0
- LOCFG v6.00.0 or later
- HPLOMIG 6.0.0

NOTE: Updated utilities and system libraries are required to support the iLO High Security, FIPS, and CNSA security states.

Fixes

- Updated utilities and system libraries are required to support the iLO High Security, FIPS, and CNSA security states.
- Latest iLO 6 features are not supported by RIBCL or the CLI.
- Hewlett Packard Enterprise recommends the use of the iLO RESTful API, particularly for setting the iLO security state and configuring extended user privileges.
- The iLO RESTful API is the preferred programmatic interface for Gen10, Gen10+ and Gen11 systems.
- The preferred CLI and scripting tool is the RESTful Interface Tool (iLOREST).

Enhancements

- CBM Support (connect without PCID)
- CBM Support (Nex reboot auto connect)
- DL560 - Display multi-CPLDs revision on RBSU and iLO web
- Gen11 MUXed CPLD updates
- Liquid cooling support on DL560 platforms with 2 CPLDs and 2 CPUs

- iLO to support virtual media mounts

Firmware - Network Top

Broadcom Firmware Package for BCM5741x adapters
Version: 224.1.102.0 **(Recommended)**
Filename: bcm224.1.102.0.pup.fwpkg

Important Note!

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

- Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 224.0.159.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.2-224.0.157.0 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2023.03.00 or later

Fixes

- This product correct an issue which Fix incorrect reset reason for error recovery.
- This product correct an issue which Fix port ID in the odata.id of Port Redfish was always 0.
- This product correct an issue which Write to RDE Port Enabled property request was processed but the handler function was not called.
- This product correct an issue which Unsolicited LLDP shutdown PDU with blank information (including MAC address) was sent on a port where LLDP was disabled.(PDU = LLDP protocol data units)
- This product correct an issue which Firmware failed to NAK invalid TID values (Traffic Identifier)
- This product correct an issue which Firmware reset if there is pending nvm parameter changes.

Enhancements

This product enhances to support for LLDP read/write RDE commands.

Supported Devices and Features

This product supports the following network adapters:

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

Broadcom Firmware Package for BCM5750x adapters
Version: 224.1.102.0 **(Recommended)**
Filename: bcm224.1.102.0_Thor.pup.fwpkg

Important Note!

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

- Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 224.0.159.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.2-224.0.157.0 or later

- HPE Broadcom NetXtreme-E Drivers for VMware, version 2023.03.00 or later

Fixes

- This product correct an issue which writing MAC addresses to the factory config could error out claiming corruption.
- This product correct an issue which not allow the user to configure the multi-function mode option with option value string.

Enhancements

- This product enhances coredump support to dump cache contents.
- This product enhances Firmware command line module modularity
- This product enhances to add support for disabling Overflow detection for CQs (Completion Queues) of RoCE (RDMA over converged Ethernet)
- This product enhances FW support for QUIC key (Quick UDP Internet Connection) context backing store management
- This product enhances to add support for PCIe TPH (TLP Processing Hints)

Supported Devices and Features

This product supports the following network adapters:

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

Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64
Version: 2.32.3 **(Recommended)**
Filename: firmware-nic-bcm-open-2.32.3-1.1.x86_64.compsig; firmware-nic-bcm-open-2.32.3-1.1.x86_64.rpm

Important Note!

HPE recommends *HPE Broadcom tg3 Ethernet Drivers*, versions 3.139j or later, for use with this firmware.

Prerequisites

This package requires the appropriate driver for your network adapter to be installed and all Ethernet ports brought up before firmware can be updated.

- Follow the command line to bring up ethernet device:

  # ifup ethX or ifconfig ethX up or wicked ifup ethX

If local system doesn't configure any network interface for the adapter that are necessary then to create the network config file to bring up interface.

- For example in sles15sp1, To create ifcfg-ethX files under /etc/sysconfig/network/

Fixes

This product correct an issue which the Boot Code Version of the Firmware did not get updated after upgrading the Firmware.

Enhancements

This product enhances the FW Library to support the second NVRAM type.

Supported Devices and Features

This product supports the following network adapters:

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

Broadcom NX1 Online Firmware Upgrade Utility for VMware
Version: 1.33.2 **(Recommended)**
Filename: CP054668.compsig; CP054668.zip

Important Note!

This software package contains combo image v20.24.41 with the following firmware versions:

NIC	Boot Code Version	PXE Version	NCSI Version	UEFI Version	CCM Version
BCM 5719 1GbE 4p BASE-T Adptr	1.46	21.6.2	1.5.42	21.6.43	224.0.155.0
BCM 5719 1GbE 4p BASE-T OCP3 Adptr	1.46	21.6.2	1.5.42	21.6.43	224.0.155.0
BCM 5720 1GbE 2p BASE-T LOM Adptr	1.42	21.6.2	1.5.42	21.6.43	224.0.155.0

Prerequisites

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

Fixes

This product correct an issue which the Boot Code Version of the Firmware did not get updated after upgrading the Firmware.

Enhancements

- This product enhances the FW Library to support the second NVRAM type.
- This product now supports ESXi8.0

Supported Devices and Features

This product supports the following network adapters:

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

Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions
Version: 5.3.3.0 **(Recommended)**
Filename: cp054669.compsig; cp054669.exe

Important Note!

HPE recommends *Broadcom NX1 1Gb Driver for Windows Server x64 Editions*, version 221.0.5.0 or later, for use with this firmware.

This software package contains combo image v20.24.41 with the following firmware versions:

NIC	Boot Code Version	PXE Version	NCSI Version	UEFI Version	CCM Version
BCM 5719 1GbE 4p BASE-T Adptr	1.46	21.6.2	1.5.42	21.6.43	224.0.155.0
BCM 5719 1GbE 4p BASE-T OCP3 Adptr	1.46	21.6.2	1.5.42	21.6.43	224.0.155.0
BCM 5720 1GbE 2p BASE-T LOM Adptr	1.42	21.6.2	1.5.42	21.6.43	224.0.155.0

Prerequisites

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

Fixes

This product correct an issue which the Boot Code Version of the Firmware did not get updated after upgrading the Firmware.

Enhancements

This product enhances the FW Library to support the second NVRAM type.

Supported Devices and Features

This product supports the following network adapters:

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

Intel Firmware Package For E810-2CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter
Version: 4.10 **(Recommended)**
Filename: HPE_E810_2CQDA2_O_SEC_4p10_PLDMoMCTP_8001518B.fwpkg

Important Note!

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

- Intel icea Driver for Microsoft Windows Server, version 1.12.148.0 or later
- Intel ice Drivers for Linux, version 1.10.1.2-1 or later
- Intel icen Driver for VMware, version 2023.03.00 or later

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

Enhancements

- This product now supports RDE Read and Write operations.
- This product now supports Debug Dump feature.
- This product now supports new parameters when software requesting on Port 0(via AQ the connectivity type)

Supported Devices and Features

This product supports the following network adapters:

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

Intel Firmware Package For E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter
Version: 4.10 **(Recommended)**
Filename: HPE_E810_CQDA2_4p10_PLDMoMCTP_8001518E.fwpkg

Important Note!

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

- Intel icea Driver for Microsoft Windows Server, version 1.12.148.0 or later
- Intel ice Drivers for Linux, version 1.10.1.2-1 or later
- Intel icen Driver for VMware, version 2023.03.00 or later

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

Enhancements

- This product now supports RDE Read and Write operations.
- This product now supports Debug Dump feature.
- This product now supports new parameters when software requesting on Port 0(via AQ the connectivity type)

Supported Devices and Features

This product supports the following network adapters:

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

Intel Firmware Package For E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter
Version: 4.10 **(Recommended)**
Filename: HPE_E810_CQDA2_OCP_4p10_NCSIwPLDMoMCTP_80015190.fwpkg

Important Note!

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

- Intel icea Driver for Microsoft Windows Server, version 1.12.148.0 or later
- Intel ice Drivers for Linux, version 1.10.1.2-1 or later
- Intel icen Driver for VMware, version 2023.03.00 or later

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

Enhancements

- This product now supports RDE Read and Write operations.
- This product now supports Debug Dump feature.
- This product now supports new parameters when software requesting on Port 0(via AQ the connectivity type)

Supported Devices and Features

This product supports the following network adapters:

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

Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter
Version: 4.10 **(Recommended)**
Filename: HPE_E810_XXVDA2_SD_4p10_PLDMoMCTP_80015188.fwpkg

Important Note!

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

- Intel icea Driver for Microsoft Windows Server, version 1.12.148.0 or later
- Intel ice Drivers for Linux, version 1.10.1.2-1 or later
- Intel icen Driver for VMware, version 2023.03.00 or later

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

Enhancements

- This product now supports RDE Read and Write operations.
- This product now supports Debug Dump feature.
- This product now supports new parameters when software requesting on Port 0(via AQ the connectivity type)

Supported Devices and Features

This product supports the following network adapters:

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

Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter
Version: 4.10 **(Recommended)**
Filename: HPE_E810_XXVDA2_SD_OCP_4p10_NCSIwPLDMoMCTP_8001518D.fwpkg

Important Note!

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

- Intel icea Driver for Microsoft Windows Server, version 1.12.148.0 or later
- Intel ice Drivers for Linux, version 1.10.1.2-1 or later
- Intel icen Driver for VMware, version 2023.03.00 or later

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

Enhancements

- This product now supports RDE Read and Write operations.
- This product now supports Debug Dump feature.
- This product now supports new parameters when software requesting on Port 0(via AQ the connectivity type)

Supported Devices and Features

This product supports the following network adapters:

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

Intel Firmware Package For E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter
Version: 4.10 **(Recommended)**
Filename: HPE_E810_XXVDA4_FH_4p10_PLDMoMCTP_8001518F.fwpkg

Important Note!

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

- Intel icea Driver for Microsoft Windows Server, version 1.12.148.0 or later
- Intel ice Drivers for Linux, version 1.10.1.2-1 or later
- Intel icen Driver for VMware, version 2023.03.00 or later

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

Enhancements

- This product now supports RDE Read and Write operations.
- This product now supports Debug Dump feature.
- This product now supports new parameters when software requesting on Port 0(via AQ the connectivity type)

Supported Devices and Features

This product supports the following network adapters:

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

Intel Firmware Package For E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 MCLK Adapter
Version: 4.10 **(Recommended)**
Filename: HPE_E810_XXV4T_O_SEC_4p10_PLDMoMCTP_80015189.fwpkg

Important Note!

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

- Intel ice Drivers for Linux, version 1.10.1.2-1 or later

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

Enhancements

- This product now supports RDE Read and Write operations.
- This product now supports Debug Dump feature.
- This product now supports new parameters when software requesting on Port 0(via AQ the connectivity type)

Supported Devices and Features

This product supports the following network adapters:

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

Intel Firmware Package For E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter
Version: 4.10 **(Recommended)**
Filename: HPE_E810_XXV4_OCP_4p10_NCSIwPLDMoMCTP_8001518A.fwpkg

Important Note!

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

- Intel icea Driver for Microsoft Windows Server, version 1.12.148.0 or later
- Intel ice Drivers for Linux, version 1.10.1.2-1 or later
- Intel icen Driver for VMware, version 2023.03.00 or later

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

Enhancements

- This product now supports RDE Read and Write operations.
- This product now supports Debug Dump feature.
- This product now supports new parameters when software requesting on Port 0(via AQ the connectivity type)

Supported Devices and Features

This product supports the following network adapters:

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

Intel Online Firmware Upgrade Utility for Linux x86_64
Version: 1.27.0 **(Recommended)**
Filename: firmware-nic-is-intel-1.27.0-1.1.x86_64.compsig; firmware-nic-is-intel-1.27.0-1.1.x86_64.rpm

Prerequisites

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

Enhancements

This product enhanced the compatibility with i350 and i40ea driver

Supported Devices and Features

This package supports the following network adapters:

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

Intel Online Firmware Upgrade Utility for VMware
Version: 3.20.0 **(Recommended)**
Filename: CP055491.compsig; CP055491.zip

Important Note!

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

NIC	EEPROM/NVM Version	OROM Version	NVM Version
HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter	8000D017	1.3310.0	9.10
HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter	8000D01F	1.3310.0	9.10
Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter	80001099	1.3310.0	N/A
Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter	80001199	1.3310.0	N/A
Intel(R) I350 Gigabit Network Connection (2-port)	8000119C	1.3310.0	N/A
Intel(R) I350 Gigabit Network Connection (4-port)	8000119D	1.3310.0	N/A

The combo image v1.3310.0 includes: Boot Agent: 1GbE - v1.5.89, 10GbE - v2.4.45, 40GbE - v1.1.42 & UEFI Drivers: 1GbE - v9.8.15, 10GbE - v8.1.04, 40GbE - v4.9.38

Prerequisites

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

Enhancements

This product enhanced the compatibility with igbn and i40en driver

Supported Devices and Features

This package supports the following network adapters:

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

Intel Online Firmware Upgrade Utility for Windows Server x64 Editions
Version: 5.3.3.0 **(Recommended)**
Filename: cp055492.compsig; cp055492.exe

Important Note!

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

NIC	EEPROM/NVM Version	OROM Version	NVM Version
HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter	8000D017	1.3310.0	9.10
HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter	8000D01F	1.3310.0	9.10
Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter	80001099	1.3310.0	N/A
Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter	80001199	1.3310.0	N/A
Intel(R) I350 Gigabit Network Connection (2-port)	8000119C	1.3310.0	N/A
Intel(R) I350 Gigabit Network Connection (4-port)	8000119D	1.3310.0	N/A

The combo image v1.3310.0 includes: Boot Agent: 1GbE - v1.5.89, 10GbE - v2.4.45, 40GbE - v1.1.42 & UEFI Drivers: 1GbE - v9.8.15, 10GbE - v8.1.04, 40GbE - v4.9.38

Prerequisites

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

Enhancements

This product enhanced the compatibility with igb driver v5.13.11 and i40e driver v2.21.12.

Supported Devices and Features

This package supports the following network adapters:

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

Mellanox Firmware Package (FWPKG) - Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE
Version: 26.35.1012 **(Recommended)**
Filename: 26_35_1012-MCX631102AS-ADA_Ax.pldm.fwpkg

Important Note!

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A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/ConnectX6LxFirmwarev26351012/Known+Issues

Prerequisites

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

Fixes

The following issues have been fixed in version 26.35.1012:

- The patch to the RDE LLDPEnable property in Port schema would not be updated after the host reboot.
- RDE (Redfish) PATCH operation to LLDPTransmit properties "ManagementAddressIPv4", "ManagementAddressIPv6" and "ManagementAddressMAC" were applied only in the first attempt, but failed in the next.
- PLDM AEN event receiver media was changed unexpectedly and destination BDF was overridden with garbage when some PLDM packet were received from the SMBus layer.
- PCIe SKP OS generation interval for Gen1 and Gen2.

Enhancements

New Features and Changes in Version 26.35.1012:

- Added support for copy modify header steering action to/from the UDP field.
- Added the following resource dump segments:

  SEG_HW_STE_FULL that includes dump to STE and all its dependencies
  SEG_FW_STE_FULL that include dump to FW_STE and to HW_STE_FULL in range

- As the software requires additional space before and after a packet is scattered for its processing for stridden RQ, the hardware will allocate the required room while scattering packets to spare a copy.
- QoS priority trust default state can now be changed using the new nvconfig below:

  QOS_TRUST_STATE_P1
  QOS_TRUST_STATE_P2
  The values that can be used to set the default state are:
  TRUST_PORT
  TRUST_PCP
  TRUST_DSCP
  TRUST_DSCP_PCP

Supported Devices and Features

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

Mellanox Firmware Package (FWPKG) - Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE
Version: 26.35.1012 **(Recommended)**
Filename: 26_35_1012-MCX631432AS-ADA_Ax.pldm.fwpkg

Important Note!

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A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/ConnectX6LxFirmwarev26351012/Known+Issues

Prerequisites

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

Fixes

The following issues have been fixed in version 26.35.1012:

- The patch to the RDE LLDPEnable property in Port schema would not be updated after the host reboot.
- RDE (Redfish) PATCH operation to LLDPTransmit properties "ManagementAddressIPv4", "ManagementAddressIPv6" and "ManagementAddressMAC" were applied only in the first attempt, but failed in the next.
- PLDM AEN event receiver media was changed unexpectedly and destination BDF was overridden with garbage when some PLDM packet were received from the SMBus layer.
- PCIe SKP OS generation interval for Gen1 and Gen2.

Enhancements

New Features and Changes in Version 26.35.1012:

- Added support for copy modify header steering action to/from the UDP field.
- Added the following resource dump segments:

  SEG_HW_STE_FULL that includes dump to STE and all its dependencies
  SEG_FW_STE_FULL that include dump to FW_STE and to HW_STE_FULL in range

- As the software requires additional space before and after a packet is scattered for its processing for stridden RQ, the hardware will allocate the required room while scattering packets to spare a copy.
- QoS priority trust default state can now be changed using the new nvconfig below:

  QOS_TRUST_STATE_P1
  QOS_TRUST_STATE_P2
  The values that can be used to set the default state are:
  TRUST_PORT
  TRUST_PCP
  TRUST_DSCP
  TRUST_DSCP_PCP

Supported Devices and Features

HPE Part Number	Mellanox Ethernet Only Adapters	PSID

P42041-B21	Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	MT_0000000551

Mellanox Firmware Package (FWPKG) for HPE Ethernet 100Gb 1-port QSFP28 PCIe3 x16 MCX515A-CCAT Adapter : HPE part numbers P31246-B21 and P31246-H21
Version: 16.35.1012 **(Recommended)**
Filename: 16_35_1012-MCX515A-CCA_HPE_Ax.pldm.fwpkg

Important Note!

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

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

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

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A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/ConnectX5Firmwarev16351012/Known+Issues

Prerequisites

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

Fixes

The following issues have been fixed in version 16.35.1012:

- RDE (Redfish) PATCH operation to LLDPTransmit properties "ManagementAddressIPv4", "ManagementAddressIPv6" and "ManagementAddressMAC" were applied only in the first attempt, but failed in the next.
- PLDM AEN event receiver media was changed unexpectedly and destination BDF was overridden with garbage when some PLDM packet were received from the SMBus layer.
- Bad configuration of number of VFs and SFs led to the consumption of too many functions and triggered a FW assert 0x888E. The reduction flows behavior was fixed to ensure the configuration does not exceed the total number of supported functions.
- InfiniBand L2 QP could not receive RDMA traffic occasionally.
- Running with a debug firmware reduced security as if token was applied.

Enhancements

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

New features and changes included in version 16.35.1012:

- Added support for copy modify header steering action to/from the UDP field.

- Enabled ADP timer to allow the user to configure RC or DC qp_timeout values lower than 16.
- QoS priority trust default state can now be changed using the new nvconfig below:

  QOS_TRUST_STATE_P1
  QOS_TRUST_STATE_P2
  The values that can be used to set the default state are:
  TRUST_PORT
  TRUST_PCP
  TRUST_DSCP
  TRUST_DSCP_PCP

Supported Devices and Features

This software package contains the following firmware versions:

Mellanox Ethernet Only Adapters	Firmware Version	PSID
HPE Ethernet 100Gb 1-port QSFP28 PCIe3 x16 MCX515A-CCAT Adapter(P31246-B21 and P31246-H21)	16.35.1012	MT_0000000591

Mellanox Firmware Package (FWPKG) for HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 MCX653105A-HDAT Adapter : HPE part numbers P23664-B21 and P23664-H21
Version: 20.36.1010 **(Recommended)**
Filename: 20_36_1010-MCX653105A-HDA_HPE_Ax.pldm.fwpkg

Important Note!

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

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

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

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A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/ConnectX6Firmwarev20361010/Known+Issues

Prerequisites

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

Fixes

The following issues have been fixed in version 20.36.1010:

- Aligned RDE behavior to DSP0266 v1.15.0 table 23.

Enhancements

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

New features and changes included in version 20.36.1010:

- Enabled provisioning of the OEM public key that is used for OEM NVconfig file signature verification.
- Enabled constant clock offset (visible using PPS out) when synchronizing the device using PTP in 25G or 10G port link speed.

Supported Devices and Features

This software package contains the following firmware versions:

Mellanox InfiniBand Adapter	Firmware Version	PSID
HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 MCX653105A-HDAT Adapter (P23664-B21 and P23664-H21)	20.36.1010	MT_0000000451

Mellanox Firmware Package (FWPKG) for HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 OCP3 MCX653435A-HDAI Adapter : HPE part numbers P31323-B21 and P31323-H21
Version: 20.36.1010 **(Recommended)**
Filename: 20_36_1010-MCX653435A-HDA_HPE_Ax.pldm.fwpkg

Important Note!

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

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

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

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A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/ConnectX6Firmwarev20361010/Known+Issues

Prerequisites

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

Fixes

The following issues have been fixed in version 20.36.1010:

- Aligned RDE behavior to DSP0266 v1.15.0 table 23.

Enhancements

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

New features and changes included in version 20.36.1010:

- Enabled provisioning of the OEM public key that is used for OEM NVconfig file signature verification.
- Enabled constant clock offset (visible using PPS out) when synchronizing the device using PTP in 25G or 10G port link speed.

Supported Devices and Features

This software package contains the following firmware versions:

Mellanox InfiniBand Adapter	**Firmware Version**	**PSID**
HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 OCP3 MCX653435A-HDAI Adapter (P31323-B21 and P31323-H21)	20.36.1010	MT_0000000592

Mellanox Firmware Package (FWPKG) for HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 MCX653106A-HDAT Adapter : HPE part numbers P31324-B21 and P31324-H21
Version: 20.36.1010 **(Recommended)**
Filename: 20_36_1010-MCX653106A-HDA_HPE_Ax.pldm.fwpkg

Important Note!

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

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

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

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

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

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

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A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/ConnectX6Firmwarev20361010/Known+Issues

Prerequisites

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

Fixes

The following issues have been fixed in version 20.36.1010:

- Aligned RDE behavior to DSP0266 v1.15.0 table 23.

Enhancements

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

New features and changes included in version 20.36.1010:

- Enabled provisioning of the OEM public key that is used for OEM NVconfig file signature verification.

- Enabled constant clock offset (visible using PPS out) when synchronizing the device using PTP in 25G or 10G port link speed.

Supported Devices and Features

This software package contains the following firmware versions:

Mellanox InfiniBand Adapter	Firmware Version	PSID
HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 MCX653106A-HDAT Adapter(P31324-B21 and P31324-H21)	20.36.1010	MT_0000000594

Mellanox Firmware Package (FWPKG) for HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 OCP3 MCX653436A-HDAI Adapter : HPE part numbers P31348-B21 and P31348-H21
Version: 20.36.1010 **(Recommended)**
Filename: 20_36_1010-MCX653436A-HDA_HPE_Ax.pldm.fwpkg

Important Note!

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

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

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

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

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

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

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A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/ConnectX6Firmwarev20361010/Known+Issues

Prerequisites

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

Fixes

The following issues have been fixed in version 20.36.1010:

- Aligned RDE behavior to DSP0266 v1.15.0 table 23.

Enhancements

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

New features and changes included in version 20.36.1010:

- Enabled provisioning of the OEM public key that is used for OEM NVconfig file signature verification.
- Enabled constant clock offset (visible using PPS out) when synchronizing the device using PTP in 25G or 10G port link speed.

Supported Devices and Features

This software package contains the following firmware versions:

Mellanox InfiniBand Adapter	Firmware Version	PSID
HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 OCP3 MCX653436A-HDAI Adapter (P31348-B21 and P31348-H21)	20.36.1010	MT_0000000593

Mellanox Firmware Package (FWPKG) for HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe4 x16 MCX653105A-ECAT Adapter : HPE part numbers P23665-B21 and P23665-H21
Version: 20.36.1010 **(Recommended)**
Filename: 20_36_1010-MCX653105A-ECA_HPE_Ax.pldm.fwpkg

Important Note!

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

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

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

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A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/ConnectX6Firmwarev20361010/Known+Issues

Prerequisites

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

Fixes

The following issues have been fixed in version 20.36.1010:

- Aligned RDE behavior to DSP0266 v1.15.0 table 23.

Enhancements

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

New features and changes included in version 20.36.1010:

- Enabled provisioning of the OEM public key that is used for OEM NVconfig file signature verification.
- Enabled constant clock offset (visible using PPS out) when synchronizing the device using PTP in 25G or 10G port link speed.

Supported Devices and Features

This software package contains the following firmware versions:

Mellanox InifiniBand Adapter	Firmware Version	PSID
HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe4 x16 MCX653105A-ECAT Adapter (P23665-B21 and P23665-H21)	20.36.1010	MT_0000000452

Mellanox Firmware Package (FWPKG) for HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe4 x16 MCX653106A-ECAT Adapter : HPE part numbers P23666-B21 and P23666-H21
Version: 20.36.1010 **(Recommended)**
Filename: 20_36_1010-MCX653106A-ECA_HPE_Ax.pldm.fwpkg

Important Note!

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

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

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

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

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

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

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accordance with the terms and conditions of your purchase of the HPE product or solution.

A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/ConnectX6Firmwarev20361010/Known+Issues

Prerequisites

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

Fixes

The following issues have been fixed in version 20.36.1010:

- Aligned RDE behavior to DSP0266 v1.15.0 table 23.

Enhancements

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

New features and changes included in version 20.36.1010:

- Enabled provisioning of the OEM public key that is used for OEM NVconfig file signature verification.
- Enabled constant clock offset (visible using PPS out) when synchronizing the device using PTP in 25G or 10G port link speed.

Supported Devices and Features

This software package contains the following firmware versions:

Mellanox InfiniBand Adapter	Firmware Version	PSID
HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe4 x16 MCX653106A-ECAT Adapter (P23666-B21 and P23666-H21)	20.36.1010	MT_0000000453

Mellanox Firmware Package (FWPKG) for HPE InfiniBand NDR 1-port OSFP PCIe5 x16 MCX75310AAS-NEAT Adapter : HPE part numbers P45641-B21 and P45641-H21
Version: 28.36.1010 **(Recommended)**
Filename: 28_36_1010-MCX75310AAS-NEAT_HPE_Ax.pldm.fwpkg

Important Note!

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

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

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

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A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/ConnectX7Firmwarev28361010/Known+Issues

Fixes

The following issues have been fixed in version 28.36.1010:

- The Downstream Port Containment (DPC) was not exposed on the downstream ports of the top level PCIe switch in products supporting PCIe switch.
- PRBS lock loss (PRBS_CHK_ERR_CNT_NO_CLR field is raising) occurred when the PRBS mode was first configured on the ConnectX-7 adapter card and then on the Wedge400 switch.
- wqe_based_steering CQEs were not generated upon an error.
- Aligned RDE behavior to DSP0266 v1.15.0 table 23.
- Device link went down, and the device was not able to get traffic, when moving between two states DETECT and POLLING CONFIG in RTL.
- When connecting a ConnectX-7 adapter card to ConnectX-7 adapter card and one side was configured to RM Loopback, and the port was toggled, link flap was experienced occasionally.
- Live migration of MPV affiliated function pair was not supported when port numbers were changed. Each function should stay on the same port number as before migration.
- When decapsulation on a packet occurred, the FCS indication was not calculated correctly.
- SPDM Get Measurements returned an invalid signature while executed without the included measurements (request param2 = 0).
- The SPDM challenge command returned the hash of all the measurements without their headers.
- Pkey table was not updated, and wrong value was sent, when the MADs handled in a long process were sent using GLOBAL_GVMI instead of vport0_gvmi.
- A wrong lane mapping to serdes when selecting the OSFP port and using only 4 lanes.

Enhancements

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

New features and changes included in version 28.36.1010:

- Enabled provisioning of the OEM public key that is used for OEM NVconfig file signature verification.

Supported Devices and Features

HPE Part Number	Mellanox InfiniBand Only Adapter	PSID
P45641-B21	HPE InfiniBand NDR 1-port OSFP PCIe5 x16 MCX75310AAS-NEAT Adapter (P45641-B21 and P45641-H21)	MT_0000000970

Mellanox Firmware Package (FWPKG) for HPE InfiniBand NDR200 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Adapter : HPE part numbers P45642-B21 and P45642-H21
Version: 28.36.1010 **(Recommended)**
Filename: 28_36_1010-MCX75310AAS-HEAT_HPE_Ax.pldm.fwpkg

Important Note!

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

1. HPE signed PLDM Firmware Package (.FWPKG filename extension) updatable via iLO.

2. Firmware binary (.bin filename extension) updatable via mstflint utility from the Operating System.

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

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A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/ConnectX7Firmwarev28361010/Known+Issues

Prerequisites

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

Fixes

The following issues have been fixed in version 28.36.1010:

- The Downstream Port Containment (DPC) was not exposed on the downstream ports of the top level PCIe switch in products supporting PCIe switch.
- PRBS lock loss (PRBS_CHK_ERR_CNT_NO_CLR field is raising) occurred when the PRBS mode was first configured on the ConnectX-7 adapter card and then on the Wedge400 switch.
- wqe_based_steering CQEs were not generated upon an error.
- Aligned RDE behavior to DSP0266 v1.15.0 table 23.
- Device link went down, and the device was not able to get traffic, when moving between two states DETECT and POLLING CONFIG in RTL.
- When connecting a ConnectX-7 adapter card to ConnectX-7 adapter card and one side was configured to RM Loopback, and the port was toggled, link flap was experienced occasionally.
- Live migration of MPV affiliated function pair was not supported when port numbers were changed. Each function should stay on the same port number as before migration.
- When decapsulation on a packet occurred, the FCS indication was not calculated correctly.
- SPDM Get Measurements returned an invalid signature while executed without the included measurements (request param2 = 0).
- The SPDM challenge command returned the hash of all the measurements without their headers.
- Pkey table was not updated, and wrong value was sent, when the MADs handled in a long process were sent using GLOBAL_GVMI instead of vport0_gvmi.
- A wrong lane mapping to serdes when selecting the OSFP port and using only 4 lanes.

Enhancements

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

New features and changes included in version 28.36.1010:

- Enabled provisioning of the OEM public key that is used for OEM NVconfig file signature verification.

Supported Devices and Features

HPE Part Number	Mellanox InfiniBand Only Adapter	PSID

P45642-B21	HPE InfiniBand NDR200 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Adapter (P45642-B21 and P45642-H21)	MT_0000000971

Mellanox Firmware Package (FWPKG) for Mellanox MCX623105AS-VDAT Ethernet 200Gb 1-port QSFP56 Adapter for HPE
Version: 22.35.1012 **(Recommended)**
Filename: 22_35_1012-MCX623105AS-VDA_Ax.pldm.fwpkg

Important Note!

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A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/ConnectX6DxFirmwarev22351012/Known+Issues

Prerequisites

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

Fixes

The following issues have been fixed in version 22.35.1012:

- RDE (Redfish) PATCH operation to LLDPTransmit properties "ManagementAddressIPv4", "ManagementAddressIPv6" and "ManagementAddressMAC" were applied only in the first attempt, but failed in the next.
- Commands sent by the MLNX_OFED driver to the NIC would fail when loading the VirtIO driver.
- A firmware limitation caused enabling tx_port_ts to result in syndrome 0x5d2974.
- PLDM AEN event receiver media was changed unexpectedly and destination BDF was overridden with garbage when some PLDM packet were received from the SMBus layer.
- PCIe SKP OS generation interval for Gen1 and Gen2.
- CPU handling synchronization required separation (run ptp4l with taskset -c [cpu #] prefix) while running heavy traffic.

Enhancements

New features and changes included in version 22.35.1012:

- Improved both TP1a compliance and Physical-layer performance. TX and PLL settings were changed to comply with IEEE 802.3bs TP1a and improved link margins.
- Enabled the firmware to distribute loopback QPs/SQs between all LAG ports during the initial distribution in steering LAG.
- Changed the Tx setting for optics HDR to improve compliance margins.
- HPCC related configurations are now supported via the mlxconfig utility.
- Added support for copy modify header steering action to/from the UDP field.
- Added support for range based lookup. This new capability is available using the following new PRM command:

  GENERATE WQE which receives GTA WQE, the command supports "match on range" and num_hash_definer=[1,2] and num_match_ste=[1,2].
  For further information, refer to section "RTC Object Format" in the PRM.

- Added support for RoCE based VM migration.

- Added the following resource dump segments:

  SEG_HW_STE_FULL that includes dump to STE and all its dependencies
  SEG_FW_STE_FULL that include dump to FW_STE and to HW_STE_FULL in range

- As the software requires additional space before and after a packet is scattered for its processing for stridden RQ, the hardware will allocate the required room while scattering packets to spare a copy.
- Improved security offload's Connections per Second (CPS) rate using the general object DEK (PSP TLS etc).
- Added support for pre-copy commands in VF migration flow in order to reduce the migration downtime.
- Optimized performance to support full VF migration flow.
- Increased the VirtIO hardware offload message rate to 20/20 MPPS for 256 virtual devices by optimizing the datapath application code.
- Enabled ADP timer to allow the user to configure RC or DC qp_timeout values lower than 16.
- QoS priority trust default state can now be changed using the new nvconfig below:

  QOS_TRUST_STATE_P1
  QOS_TRUST_STATE_P2
  The values that can be used to set the default state are:
  TRUST_PORT
  TRUST_PCP
  TRUST_DSCP
  TRUST_DSCP_PCP

Supported Devices and Features

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

Mellanox Firmware Package (FWPKG) for Mellanox MCX623106AS-CDAT Ethernet 100Gb 2-port QSFP56 Adapter for HPE
Version: 22.35.1012 **(Recommended)**
Filename: 22_35_1012-MCX623106AS-CDA_Ax.pldm.fwpkg

Important Note!

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A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/ConnectX6DxFirmwarev22351012/Known+Issues

Prerequisites

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

Fixes

The following issues have been fixed in version 22.35.1012:

- RDE (Redfish) PATCH operation to LLDPTransmit properties "ManagementAddressIPv4", "ManagementAddressIPv6" and "ManagementAddressMAC" were applied only in the first attempt, but failed in the next.
- Commands sent by the MLNX_OFED driver to the NIC would fail when loading the VirtIO driver.
- A firmware limitation caused enabling tx_port_ts to result in syndrome 0x5d2974.
- PLDM AEN event receiver media was changed unexpectedly and destination BDF was overridden with garbage when some PLDM packet were received from the SMBus layer.
- PCIe SKP OS generation interval for Gen1 and Gen2.
- CPU handling synchronization required separation (run ptp4l with taskset -c [cpu #] prefix) while running heavy traffic.

Enhancements

New features and changes included in version 22.35.1012:

- Improved both TP1a compliance and Physical-layer performance. TX and PLL settings were changed to comply with IEEE 802.3bs TP1a and improved link margins.
- Enabled the firmware to distribute loopback QPs/SQs between all LAG ports during the initial distribution in steering LAG.
- Changed the Tx setting for optics HDR to improve compliance margins.
- HPCC related configurations are now supported via the mlxconfig utility.
- Added support for copy modify header steering action to/from the UDP field.
- Added support for range based lookup. This new capability is available using the following new PRM command:

  GENERATE WQE which receives GTA WQE, the command supports "match on range" and num_hash_definer=[1,2] and num_match_ste=[1,2].
  For further information, refer to section "RTC Object Format" in the PRM.

- Added support for RoCE based VM migration.
- Added the following resource dump segments:

  SEG_HW_STE_FULL that includes dump to STE and all its dependencies
  SEG_FW_STE_FULL that include dump to FW_STE and to HW_STE_FULL in range

- As the software requires additional space before and after a packet is scattered for its processing for stridden RQ, the hardware will allocate the required room while scattering packets to spare a copy.
- Improved security offload's Connections per Second (CPS) rate using the general object DEK (PSP TLS etc).
- Added support for pre-copy commands in VF migration flow in order to reduce the migration downtime.
- Optimized performance to support full VF migration flow.
- Increased the VirtIO hardware offload message rate to 20/20 MPPS for 256 virtual devices by optimizing the datapath application code.
- Enabled ADP timer to allow the user to configure RC or DC qp_timeout values lower than 16.
- QoS priority trust default state can now be changed using the new nvconfig below:

  QOS_TRUST_STATE_P1
  QOS_TRUST_STATE_P2
  The values that can be used to set the default state are:
  TRUST_PORT
  TRUST_PCP
  TRUST_DSCP
  TRUST_DSCP_PCP

Supported Devices and Features

HPE Part Number	Mellanox Ethernet Only Adapters	PSID

P25960-B21	Mellanox MCX623106AS-CDAT Ethernet 100Gb 2-port QSFP56 Adapter for HPE	MT_0000000437

Online Firmware Upgrade Utility (Linux x86_64) for HPE OPA adapters
Version: 1.12.0 (A) **(Recommended)**
Filename: firmware-nic-cornelis-opa-hfi-1.12.0-2.1.x86_64.compsig; firmware-nic-cornelis-opa-hfi-1.12.0-2.1.x86_64.rpm

Prerequisites

The smart component requires Cornelis Networks OPXS or OPX Basic software v10.11.1.3.1 to be installed as a prerequisite.

Fixes

Fixes included in version 1.12.0:

- Fixed race condition between BIOS checking link status and LNI completing which resulted in PXE boot failures.
- Changed the default behavior of the hfi1_eprom tool to convert the eprom format to version 2, eliminating the need to supply the -N command line argument.
- Addressed an issue where updating the HfiPcieGen3Loader*.rom file could result in the erasure of HfiPcieGen3Loader*.efi and HFI_TYPE1*.dat files.

Enhancements

No changes and new features in version 1.12.0

Supported Devices and Features

HP Part Number	OPA HFI Adapter Type	SSID
829334-B21	HPE 100Gb 1-Port OP101 QSFP28 x8 OPA Adapter	E7
829335-B21	HPE 100Gb 1-Port OP101 QSFP28 x16 OPA Adapter	E8
851226-B21	HPE Apollo 100Gb 1-port Intel Omni-Path Architecture 860z Mezzanine FIO Adapter	21C

Firmware - PCIe NVMe Storage Disk Top

Online NVMe SSD Flash Component for Linux (x64) - EO000400KYDKV and EO000800KYDLA Drives
Version: 4IASHPK3 **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-6758a46eb7-4IASHPK3-1.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-6758a46eb7-4IASHPK3-1.1.x86_64.rpm

Important Note!

- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- OCP v2.0 feature support
- NVMe-MI over PCIe VDM support
- Bug fixes

Online NVMe SSD Flash Component for Linux (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives
Version: HPK2 **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-a27c95663d-HPK2-1.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-a27c95663d-HPK2-1.1.x86_64.rpm

Important Note!

- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Added Relaxed Ordering feature in drive FW and fixed some bugs

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Online NVMe SSD Flash Component for Linux (x64) -MZXLR800HBHQ-000H3, MZXLR1T6HBJR-000H3, MZXLR3T2HBLS-000H3, MZXLR6T4HALA-000H3, MZXLR12THALA-000H3, MZXLR960HBHQ-000H3, MZXLR1T9HBJR-000H3, MZXLR3T8HBLS-000H3, MZXLR7T6HALA-000H3 and MZXLR15THALA-000H3 Drive
Version: MPK7625Q (C) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-951aefd63e-MPK7625Q-3.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-951aefd63e-MPK7625Q-3.1.x86_64.rpm

Important Note!

- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for RHEL 9.

Online NVMe SSD Flash Component for VMware ESXi - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives
Version: HPK2 **(Recommended)**
Filename: CP054552.compsig; CP054552.zip

Important Note!

- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Added Relaxed Ordering feature in drive FW and fixed some bugs

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Online NVMe SSD Flash Component for VMware ESXi - EO000400KYDKV and EO000800KYDLA Drives
Version: 4IASHPK3 **(Recommended)**

Filename: CP053791.compsig; CP053791.zip

Important Note!

- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- OCP v2.0 feature support
- NVMe-MI over PCIe VDM support
- Bug fixes

Online NVMe SSD Flash Component for VMware ESXi - MZXLR800HBHQ-000H3, MZXLR1T6HBJR-000H3, MZXLR3T2HBLS-000H3, MZXLR6T4HALA-000H3, MZXLR12THALA-000H3, MZXLR960HBHQ-000H3, MZXLR1T9HBJR-000H3, MZXLR3T8HBLS-000H3, MZXLR7T6HALA-000H3 and MZXLR15THALA-000H Drive Version: MPK7625Q (C) **(Recommended)**
Filename: CP053726.compsig; CP053726.zip

Important Note!

- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for VMware 8.0

Online NVMe SSD Flash Component for Windows (x64) - EO000400KYDKV and EO000800KYDLA Drives Version: 4IASHPK3 **(Recommended)**
Filename: cp053792.compsig; cp053792.exe; cp053792.md5

Important Note!

- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- OCP v2.0 feature support
- NVMe-MI over PCIe VDM support
- Bug fixes

Online NVMe SSD Flash Component for Windows (x64) - MZXLR800HBHQ-000H3, MZXLR1T6HBJR-000H3, MZXLR3T2HBLS-000H3, MZXLR6T4HALA-000H3, MZXLR12THALA-000H3, MZXLR960HBHQ-000H3, MZXLR1T9HBJR-000H3, MZXLR3T8HBLS-000H3, MZXLR7T6HALA-000H3 and MZXLR15THALA-0 Drives Version: MPK7625Q (C) **(Recommended)**
Filename: cp053727.compsig; cp053727.exe; cp053727.md5

Important Note!

- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Server 2022.

Online NVMe SSD Flash Component for Windows (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives
Version: HPK2 **(Recommended)**
Filename: cp054553.compsig; cp054553.exe; cp054553.md5

Important Note!

- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Added Relaxed Ordering feature in drive FW and fixed some bugs

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Firmware - Power Management Top

Online ROM Flash for Linux - Advanced Power Capping Microcontroller Firmware for HPE Gen11 Servers
Version: 1.0.2 **(Recommended)**
Filename: RPMS/x86_64/firmware-powerpic-gen11-1.0.2-1.1.x86_64.compsig; RPMS/x86_64/firmware-powerpic-gen11-1.0.2-1.1.x86_64.rpm

Important Note!

Important Notes:

None

Deliverable Name:

Advanced Power Capping Microcontroller Firmware for HPE Gen11 Servers

Release Version:

1.0.2

Last Recommended or Critical Revision:

This is the initial verison of the firmware

Previous Revision:

This is the initial verison of the firmware

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial verison of the firmware.

Problems Fixed:

None

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver" (CHIF) for Linux which is integrated into the standard Linux kernel.

Gen11 servers with Power-PIC solution (HPE Proliant DLxx5 and Synergy).

Enhancements

Important Notes:

None

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial verison of the firmware.

Known Issues:

None

Online ROM Flash for Windows x64 - Advanced Power Capping Microcontroller Firmware for HPE Gen11 Servers
Version: 1.0.2 **(Recommended)**
Filename: cp054490.compsig; cp054490.exe

Important Note!

Important Notes:

None

Deliverable Name:

Advanced Power Capping Microcontroller Firmware for HPE Gen11 Servers

Release Version:

1.0.2

Last Recommended or Critical Revision:

This is the initial version of the firmware

Previous Revision:

This is the initial version of the firmware

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial verison of the firmware.

Problems Fixed:

None

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver" (CHIF) for Windows which is available from Service Pack for ProLiant (SPP).

Gen11 servers with Power-PIC solution (HPE Proliant DLxx5 and Synergy).

Enhancements

Important Notes:

None

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial verison of the firmware.

Known Issues:

None

ROM Flash Firmware Package - Advanced Power Capping Microcontroller Firmware for HPE Gen11 Servers
Version: 1.0.2 **(Recommended)**
Filename: PICGen11-1.0.2-1.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

Advanced Power Capping Microcontroller Firmware for HPE Gen11 Servers

Release Version:

1.0.2

Last Recommended or Critical Revision:

This is the initial version of the firmware

Previous Revision:

This is the initial version of the firmware

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial version of the firmware.

Problems Fixed:

None

Known Issues:

None

Prerequisites

Integrated Lights-Out 6 (iLO 6) Firmware.

Gen11 servers with Power-PIC solution (HPE Proliant DLxx5 and Synergy).

Enhancements

Important Notes:

None

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial version of the firmware.

Known Issues:

None

Firmware - SAS Storage Disk Top

Online HDD/SSD Flash Component for Linux (x64) - EG000600JWEBH and EG000300JWEBF Drives
Version: HPD5 (E) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-aa9e289524-HPD5-5.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-aa9e289524-HPD5-5.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives
Version: HPD8 **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-bdfb8e99d9-HPD8-1.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-bdfb8e99d9-HPD8-1.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Fixes the Power Coordination algorithm which ensures the drive will properly negotiate power with SPL-2 and newer compliant controllers.

Online HDD/SSD Flash Component for Linux (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives
Version: HPDA (B) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-b1c9eaf74c-HPDA-2.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-b1c9eaf74c-HPDA-2.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Fixes the Power Coordination algorithm which ensures the drive will properly negotiate power with SPL-2 and newer compliant controllers.

Online HDD/SSD Flash Component for Linux (x64) - MB002000JWFVN and MB004000JWFVP Drives
Version: HPD4 (E) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-d7af557f47-HPD4-5.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-d7af557f47-HPD4-5.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MM1000JEFRB and MM2000JEFRC Drives
Version: HPDA (B) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-b04257b77b-HPDA-2.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-b04257b77b-HPDA-2.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - EH000300JWCPK, EH000600JWCPL, EH000900JWCPN, EH000300JXLVR, EH000600JXLVT and EH000900JXLVU Drives
Version: HPD9 **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-3d97759111-HPD9-1.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-3d97759111-HPD9-1.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Fixes the Power Coordination algorithm which ensures the drive will properly negotiate power with SPL-2 and newer compliant controllers.

Online HDD/SSD Flash Component for Linux (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives
Version: HPD3 (C) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-42aff4675b-HPD3-3.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-42aff4675b-HPD3-3.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MB002000JYDNE and MB004000JYDPB Drives
Version: HPD2 (C) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-d4be2aecbb-HPD2-3.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-d4be2aecbb-HPD2-3.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MB004000JWWQB and MB002000JWWQA Drives
Version: HPD8 (B) **(Recommended)**

Filename: rpm/RPMS/x86_64/firmware-hdd-adb3ab8147-HPD8-2.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-adb3ab8147-HPD8-2.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fixes an issue in previou version where the Inquiry model number is reported incorrectly for first few seconds after the drive is powered on

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Online HDD/SSD Flash Component for Linux (x64) - MB006000JYDNF and MB008000JYDPC Drives
Version: HPD2 (C) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-b04df66fe9-HPD2-3.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-b04df66fe9-HPD2-3.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MB008000JWRTD Drive
Version: HPD2 (E) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-8b26d1ef02-HPD2-5.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-8b26d1ef02-HPD2-5.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MB008000JWWQP and MB006000JWWQN Drives
Version: HPD8 (B) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-ae6b41e855-HPD8-2.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-ae6b41e855-HPD8-2.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fixes an issue in previous version where the Inquiry model number is reported incorrectly for first few seconds after the drive is powered on

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Online HDD/SSD Flash Component for Linux (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives
Version: HPG1 (B) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-4fbb6d96e5-HPG1-2.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-4fbb6d96e5-HPG1-2.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for RHEL 9

Online HDD/SSD Flash Component for Linux (x64) - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives
Version: HPD4 **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-cf0b6cabe1-HPD4-1.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-cf0b6cabe1-HPD4-1.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Addresses a hot plug reporting concern
- Increased the buffer memory size used for sequential write data to resolve performance degradation seen in a RAID60 configuration

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Online HDD/SSD Flash Component for Linux (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives
Version: HPD1 **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-8173816d98-HPD1-1.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-8173816d98-HPD1-1.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Firmware addresses a hot plug reporting concern

Online HDD/SSD Flash Component for Linux (x64) - MB012000JWDFD Drive
Version: HPD3 (E) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-aaf1014ede-HPD3-5.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-aaf1014ede-HPD3-5.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MB014000JWUDB Drive
Version: HPD3 (E) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-cfd7436fcc-HPD3-5.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-cfd7436fcc-HPD3-5.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MB016000JWXKH Drive
Version: HPDA **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-8a0371a425-HPDA-1.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-8a0371a425-HPDA-1.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- This firmware revision improves data integrity and reliability by optimizing adjacent track refresh parameters and management of emergency power loss table structure.
- The risk of not upgrading to this firmware is the increased possibility of data corruption in emergency power loss events.
- Several maintenance items are included in this firmware revision that reduce the probability of hangs and provide some minor performance improvements.

Online HDD/SSD Flash Component for Linux (x64) - MB016000JXLBA and MB018000JXLAU Drives
Version: HPD2 (D) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-d550523365-HPD2-4.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-d550523365-HPD2-4.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MM1000JFJTH Drive
Version: HPD5 (B) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-fa46c607d6-HPD5-2.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-fa46c607d6-HPD5-2.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - VO000960JWZJF, VO001920JWZJH, VO003840JWZJK, VO007680JWZJL and VO015360JWZJN Drives
Version: HPD4 (E) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-35fd24601f-HPD4-5.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-35fd24601f-HPD4-5.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives
Version: HPD7 **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-8fafc9efb2-HPD7-1.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-8fafc9efb2-HPD7-1.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Reduced the occurrence probability of PMIC busy issue by stopping PLP capacity check to reduce i2c access to PMIC.

Online HDD/SSD Flash Component for VMware ESXi - EG000600JWEBH and EG000300JWEBF Drives
Version: HPD5 (D) **(Recommended)**
Filename: CP053464.compsig; CP053464.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives
Version: HPD8 **(Recommended)**
Filename: CP055387.compsig; CP055387.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Fixes the Power Coordination algorithm which ensures the drive will properly negotiate power with SPL-2 and newer compliant controllers.

Online HDD/SSD Flash Component for VMware ESXi - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives
Version: HPDA (B) **(Recommended)**
Filename: CP055733.compsig; CP055733.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Fixes the Power Coordination algorithm which ensures the drive will properly negotiate power with SPL-2 and newer compliant controllers.

Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives
Version: HPD3 (C) **(Recommended)**
Filename: CP053486.compsig; CP053486.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MB002000JWFVN and MB004000JWFVP Drives
Version: HPD4 (D) **(Recommended)**
Filename: CP053384.compsig; CP053384.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MB002000JYDNE and MB004000JYDPB Drives

Version: HPD2 (C) **(Recommended)**
Filename: CP053343.compsig; CP053343.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MB006000JYDNF and MB008000JYDPC Drives
Version: HPD2 (C) **(Recommended)**
Filename: CP053342.compsig; CP053342.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives
Version: HPG1 (B) **(Recommended)**
Filename: CP053502.compsig; CP053502.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives
Version: HPD4 **(Recommended)**
Filename: CP053847.compsig; CP053847.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Addresses a hot plug reporting concern
- Increased the buffer memory size used for sequential write data to resolve performance degradation seen in a RAID60 configuration

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Online HDD/SSD Flash Component for VMware ESXi - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives
Version: HPD1 **(Recommended)**
Filename: CP053994.compsig; CP053994.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Firmware addresses a hot plug reporting concern

Online HDD/SSD Flash Component for VMware ESXi - MB012000JWDFD Drive
Version: HPD3 (D) **(Recommended)**
Filename: CP053422.compsig; CP053422.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MM1000JEFRB and MM2000JEFRC Drives
Version: HPDA (B) **(Recommended)**
Filename: CP053416.compsig; CP053416.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MM1000JFJTH Drive
Version: HPD5 (B) **(Recommended)**
Filename: CP053418.compsig; CP053418.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for Vmware 8.0

Online HDD/SSD Flash Component for VMware ESXi - EH000300JWCPK, EH000600JWCPL, EH000900JWCPN, EH000300JXLVR, EH000600JXLVT and EH000900JXLVU Drives
Version: HPD9 **(Recommended)**
Filename: CP053495.compsig; CP053495.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Fixes the Power Coordination algorithm which ensures the drive will properly negotiate power with SPL-2 and newer compliant controllers.

Online HDD/SSD Flash Component for VMware ESXi - MB004000JWWQB and MB002000JWWQA Drives
Version: HPD8 **(Recommended)**
Filename: CP053939.compsig; CP053939.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Fixes an issue in previous version where the Inquiry model number is reported incorrectly for first few seconds after the drive is powered on

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Online HDD/SSD Flash Component for VMware ESXi - MB008000JWRTD Drive
Version: HPD2 (D) **(Recommended)**
Filename: CP053398.compsig; CP053398.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MB008000JWWQP and MB006000JWWQN Drives
Version: HPD8 **(Recommended)**
Filename: CP053890.compsig; CP053890.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Fixes an issue in previous version where the Inquiry model number is reported incorrectly for first few seconds after the drive is powered on

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Online HDD/SSD Flash Component for VMware ESXi - MB014000JWUDB Drive
Version: HPD3 (D) **(Recommended)**
Filename: CP053406.compsig; CP053406.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MB016000JWXKH Drive
Version: HPDA **(Recommended)**
Filename: CP053443.compsig; CP053443.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- This firmware revision improves data integrity and reliability by optimizing adjacent track refresh parameters and management of emergency power loss table structure.
- The risk of not upgrading to this firmware is the increased possibility of data corruption in emergency power loss events.
- Several maintenance items are included in this firmware revision that reduce the probability of hangs and provide some minor performance improvements.

Online HDD/SSD Flash Component for VMware ESXi - MB016000JXLBA and MB018000JXLAU Drives
Version: HPD2 (C) **(Recommended)**
Filename: CP053456.compsig; CP053456.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - VO000960JWZJF, VO001920JWZJH, VO003840JWZJK, VO007680JWZJL and VO015360JWZJN Drives
Version: HPD4 (D) **(Recommended)**
Filename: CP053720.compsig; CP053720.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives
Version: HPD7 **(Recommended)**
Filename: CP053869.compsig; CP053869.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Reduced the occurrence probability of PMIC busy issue by stopping PLP capacity check to reduce i2c access to PMIC.

Online HDD/SSD Flash Component for Windows (x64) - EG000600JWEBH and EG000300JWEBF Drives
Version: HPD5 (D) **(Recommended)**
Filename: cp052980.compsig; cp052980.exe; cp052980.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Server 2022.

Online HDD/SSD Flash Component for Windows (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives
Version: HPD8 **(Recommended)**
Filename: cp055388.compsig; cp055388.exe; cp055388.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Fixes the Power Coordination algorithm which ensures the drive will properly negotiate power with SPL-2 and newer compliant controllers.

Online HDD/SSD Flash Component for Windows (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives
Version: HPDA (B) **(Recommended)**
Filename: cp055734.compsig; cp055734.exe; cp055734.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes

would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Fixes the Power Coordination algorithm which ensures the drive will properly negotiate power with SPL-2 and newer compliant controllers.

Online HDD/SSD Flash Component for Windows (x64) - EH000300JWCPK, EH000600JWCPL, EH000900JWCPN, EH000300JXLVR, EH000600JXLVT and EH000900JXLVU Drives
Version: HPD9 **(Recommended)**
Filename: cp055383.compsig; cp055383.exe; cp055383.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Fixes the Power Coordination algorithm which ensures the drive will properly negotiate power with SPL-2 and newer compliant controllers.

Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives
Version: HPD3 (C) **(Recommended)**
Filename: cp052991.compsig; cp052991.exe; cp052991.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Sever 2022.

Online HDD/SSD Flash Component for Windows (x64) - MB002000JWFVN and MB004000JWFVP Drives
Version: HPD4 (D) **(Recommended)**
Filename: cp052937.compsig; cp052937.exe; cp052937.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Server 2022.

Online HDD/SSD Flash Component for Windows (x64) - MB002000JYDNE and MB004000JYDPB Drives
Version: HPD2 (C) **(Recommended)**
Filename: cp053350.compsig; cp053350.exe; cp053350.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Server 2022,

Online HDD/SSD Flash Component for Windows (x64) - MB004000JWWQB and MB002000JWWQA Drives
Version: HPD8 **(Recommended)**
Filename: cp053940.compsig; cp053940.exe; cp053940.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Fixes an issue in previous version where the Inquiry model number is reported incorrectly for first few seconds after the drive is powered on

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Online HDD/SSD Flash Component for Windows (x64) - MB006000JYDNF and MB008000JYDPC Drives
Version: HPD2 (C) **(Recommended)**
Filename: cp053345.compsig; cp053345.exe; cp053345.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Server 2022

Online HDD/SSD Flash Component for Windows (x64) - MB008000JWRTD Drive
Version: HPD2 (D) **(Recommended)**
Filename: cp052945.compsig; cp052945.exe; cp052945.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Server Windows 2022.

Online HDD/SSD Flash Component for Windows (x64) - MB008000JWWQP and MB006000JWWQN Drives
Version: HPD8 **(Recommended)**
Filename: cp053891.compsig; cp053891.exe; cp053891.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Fixes an issue in previous version where the Inquiry model number is reported incorrectly for first few seconds after the drive is powered on

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Online HDD/SSD Flash Component for Windows (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives
Version: HPG1 (B) **(Recommended)**
Filename: cp053002.compsig; cp053002.exe; cp053002.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Sever 2022.

Online HDD/SSD Flash Component for Windows (x64) - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives
Version: HPD4 **(Recommended)**
Filename: cp053848.compsig; cp053848.exe; cp053848.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Addresses a hot plug reporting concern
- Increased the buffer memory size used for sequential write data to resolve performance degradation seen in a RAID60 configuration

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Online HDD/SSD Flash Component for Windows (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives
Version: HPD1 **(Recommended)**
Filename: cp053995.compsig; cp053995.exe; cp053995.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Firmware addresses a hot plug reporting concern

Online HDD/SSD Flash Component for Windows (x64) - MB012000JWDFD Drive
Version: HPD3 (D) **(Recommended)**
Filename: cp052959.compsig; cp052959.exe; cp052959.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Server Windows 2022.

Online HDD/SSD Flash Component for Windows (x64) - MB014000JWUDB Drive
Version: HPD3 (D) **(Recommended)**
Filename: cp052951.compsig; cp052951.exe; cp052951.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Server Windows 2022.

Online HDD/SSD Flash Component for Windows (x64) - MB016000JWXKH Drive
Version: HPDA **(Recommended)**
Filename: cp055195.compsig; cp055195.exe; cp055195.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- This firmware revision improves data integrity and reliability by optimizing adjacent track refresh parameters and management of emergency power loss table structure.
- The risk of not upgrading to this firmware is the increased possibility of data corruption in emergency power loss events.
- Several maintenance items are included in this firmware revision that reduce the probability of hangs and provide some minor performance improvements.

Online HDD/SSD Flash Component for Windows (x64) - MB016000JXLBA and MB018000JXLAU Drives
Version: HPD2 (C) **(Recommended)**
Filename: cp052977.compsig; cp052977.exe; cp052977.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Server 2022.

Online HDD/SSD Flash Component for Windows (x64) - MM1000JEFRB and MM2000JEFRC Drives
Version: HPDA (B) **(Recommended)**
Filename: cp052956.compsig; cp052956.exe; cp052956.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Server Windows 2022.

Online HDD/SSD Flash Component for Windows (x64) - MM1000JFJTH Drive
Version: HPD5 (B) **(Recommended)**
Filename: cp052957.compsig; cp052957.exe; cp052957.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Server Windows 2022.

Online HDD/SSD Flash Component for Windows (x64) - VO000960JWZJF, VO001920JWZJH, VO003840JWZJK, VO007680JWZJL and VO015360JWZJN Drives
Version: HPD4 (D) **(Recommended)**
Filename: cp053722.compsig; cp053722.exe; cp053722.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Server Windows 2022.

Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives
Version: HPD7 **(Recommended)**
Filename: cp053870.compsig; cp053870.exe; cp053870.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Reduced the occurrence probability of PMIC busy issue by stopping PLP capacity check to reduce i2c access to PMIC.

Firmware - SATA Storage Disk Top

Online HDD/SSD Flash Component for Linux (x64) - MB001000GWFWK and MB002000GWFWL Drives
Version: HPG6 (H) **(Recommended)**

Filename: rpm/RPMS/x86_64/firmware-hdd-bfc4af697b-HPG6-8.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-bfc4af697b-HPG6-8.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives
Version: HPG1 (I) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-d39e7a7e75-HPG1-9.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-d39e7a7e75-HPG1-9.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc...

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MB004000GWKGV Drive
Version: HPG1 (H) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-ca21e169e2-HPG1-8.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-ca21e169e2-HPG1-8.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MB004000GWWQH, MB002000GWWQF and MB001000GWWQE Drives
Version: HPG5 (B) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-12304c1aca-HPG5-2.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-12304c1aca-HPG5-2.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MB006000GWKGR Drive
Version: HPG1 (H) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-7f2a26e6d0-HPG1-8.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-7f2a26e6d0-HPG1-8.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MB008000GWRTC Drive
Version: HPG1 (H) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-82894b9e0a-HPG1-8.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-82894b9e0a-HPG1-8.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes

would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MB012000GWDFE Drive
Version: HPG3 (E) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-059b8654a6-HPG3-5.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-059b8654a6-HPG3-5.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MB012000GWTFE and MB014000GWTFF Drives
Version: HPG8 **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-b78255e146-HPG8-1.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-b78255e146-HPG8-1.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Fix for potential hangs and timeouts, tuning fixes based on field experience and maintenance logging items

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Online HDD/SSD Flash Component for Linux (x64) - MB014000GWUDA Drive
Version: HPG2 (H) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-41cdb1c9da-HPG2-8.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-41cdb1c9da-HPG2-8.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MB016000GWXKK Drive
Version: HPG4 **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-e4f147cdd2-HPG4-1.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-e4f147cdd2-HPG4-1.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- This firmware revision improves data integrity and reliability by optimizing adjacent track refresh parameters and management of emergency power loss table structure.
- The risk of not upgrading to this firmware is the increased possibility of data corruption in emergency power loss events.
- Several maintenance items are included in this firmware revision that reduce the probability of hangs and provide some minor performance improvements.

Online HDD/SSD Flash Component for Linux (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives
Version: HPG3 (F) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-f693ccc138-HPG3-6.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-f693ccc138-HPG3-6.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives
Version: HPG2 (D) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-8e1e8083c5-HPG2-4.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-8e1e8083c5-HPG2-4.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MM1000GFJTE Drive
Version: HPG6 (B) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-95af9a555e-HPG6-2.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-95af9a555e-HPG6-2.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - MM2000GEFRA Drive
Version: HPG9 (B) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-ec908c3650-HPG9-2.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-ec908c3650-HPG9-2.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes

would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for RHEL 9

Online HDD/SSD Flash Component for Linux (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives
Version: HPG4 (F) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-db687966b4-HPG4-6.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-db687966b4-HPG4-6.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTC, VK003840GWTTD, MK000480GWTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives
Version: HPG6 (F) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-c566d63ca0-HPG6-6.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-c566d63ca0-HPG6-6.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives

Version: HPG1 (E) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-8f9bf23306-HPG1-5.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-8f9bf23306-HPG1-5.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for Linux (x64) - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives
Version: HPG2 (D) **(Recommended)**
Filename: rpm/RPMS/x86_64/firmware-hdd-befd42bd64-HPG2-4.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-hdd-befd42bd64-HPG2-4.1.x86_64.rpm

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for RHEL 9.

Online HDD/SSD Flash Component for VMware ESXi - MB001000GWFWK and MB002000GWFWL Drives
Version: HPG6 (H) **(Recommended)**
Filename: CP053380.compsig; CP053380.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives
Version: HPG1 (H) **(Recommended)**
Filename: CP053382.compsig; CP053382.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MB004000GWKGV Drive
Version: HPG1 (H) **(Recommended)**
Filename: CP053386.compsig; CP053386.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MB004000GWWQH, MB002000GWWQF and MB001000GWWQE Drives
Version: HPG5 (B) **(Recommended)**
Filename: CP053428.compsig; CP053428.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.

- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MB006000GWKGR Drive
Version: HPG1 (H) **(Recommended)**
Filename: CP053392.compsig; CP053392.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MB008000GWRTC Drive
Version: HPG1 (H) **(Recommended)**
Filename: CP053396.compsig; CP053396.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MB012000GWDFE Drive
Version: HPG3 (D) **(Recommended)**
Filename: CP053400.compsig; CP053400.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MB012000GWTFE and MB014000GWTFF Drives
Version: HPG8 **(Recommended)**
Filename: CP054181.compsig; CP054181.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Fix for potential hangs and timeouts, tuning fixes based on field experience and maintenance logging items

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Online HDD/SSD Flash Component for VMware ESXi - MB014000GWUDA Drive
Version: HPG2 (H) **(Recommended)**
Filename: CP053404.compsig; CP053404.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MB016000GWXKK Drive
Version: HPG4 **(Recommended)**
Filename: CP053446.compsig; CP053446.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- This firmware revision improves data integrity and reliability by optimizing adjacent track refresh parameters and management of emergency power loss table structure.
- The risk of not upgrading to this firmware is the increased possibility of data corruption in emergency power loss events.
- Several maintenance items are included in this firmware revision that reduce the probability of hangs and provide some minor performance improvements.

Online HDD/SSD Flash Component for VMware ESXi - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives
Version: HPG3 (E) **(Recommended)**
Filename: CP053430.compsig; CP053430.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives
Version: HPG2 (C) **(Recommended)**
Filename: CP053458.compsig; CP053458.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes

would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MM1000GFJTE Drive
Version: HPG6 (B) **(Recommended)**
Filename: CP053414.compsig; CP053414.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - MM2000GEFRA Drive
Version: HPG9 (B) **(Recommended)**
Filename: CP053412.compsig; CP053412.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU, VK003840GWSRV Drives
Version: HPG4 (E) **(Recommended)**
Filename: CP053432.compsig; CP053432.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTC, VK003840GWTTD, MK000480GWTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives
Version: HPG6 (E) **(Recommended)**
Filename: CP053424.compsig; CP053424.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB,MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives
Version: HPG1 (D) **(Recommended)**
Filename: CP053453.compsig; CP053453.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for VMware ESXi - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives
Version: HPG2 (C) **(Recommended)**
Filename: CP053478.compsig; CP053478.zip

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- In AHCI configuration only offline flashing is supported.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for VMware 8.0

Online HDD/SSD Flash Component for Windows (x64) - MB001000GWFWK and MB002000GWFWL Drives
Version: HPG6 (G) **(Recommended)**
Filename: cp052935.compsig; cp052935.exe; cp052935.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Server 2022.

Online HDD/SSD Flash Component for Windows (x64) - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives
Version: HPG1 (G) **(Recommended)**
Filename: cp052936.compsig; cp052936.exe; cp052936.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes

would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Server 2022.

Online HDD/SSD Flash Component for Windows (x64) - MB004000GWKGV Drive
Version: HPG1 (G) **(Recommended)**
Filename: cp052938.compsig; cp052938.exe; cp052938.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Server 2022.

Online HDD/SSD Flash Component for Windows (x64) - MB004000GWWQH, MB002000GWWQF and MB001000GWWQE Drives
Version: HPG5 (B) **(Recommended)**
Filename: cp052963.compsig; cp052963.exe; cp052963.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Server Windows 2022.

Online HDD/SSD Flash Component for Windows (x64) - MB006000GWKGR Drive
Version: HPG1 (G) **(Recommended)**
Filename: cp052941.compsig; cp052941.exe; cp052941.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Server 2022.

Online HDD/SSD Flash Component for Windows (x64) - MB008000GWRTC Drive
Version: HPG1 (G) **(Recommended)**
Filename: cp052944.compsig; cp052944.exe; cp052944.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Server Windows 2022.

Online HDD/SSD Flash Component for Windows (x64) - MB012000GWDFE Drive
Version: HPG3 (D) **(Recommended)**
Filename: cp052947.compsig; cp052947.exe; cp052947.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Server Windows 2022.

Online HDD/SSD Flash Component for Windows (x64) - MB012000GWTFE and MB014000GWTFF Drives
Version: HPG8 **(Recommended)**

Filename: cp054182.compsig; cp054182.exe; cp054182.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Fix for potential hangs and timeouts, tuning fixes based on field experience and maintenance logging items

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Online HDD/SSD Flash Component for Windows (x64) - MB014000GWUDA Drive
Version: HPG2 (G) **(Recommended)**
Filename: cp052949.compsig; cp052949.exe; cp052949.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

- Added support for Microsoft Server Windows 2022.

Online HDD/SSD Flash Component for Windows (x64) - MB016000GWXKK Drive
Version: HPG4 **(Recommended)**
Filename: cp055196.compsig; cp055196.exe; cp055196.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- This firmware revision improves data integrity and reliability by optimizing adjacent track refresh parameters and management of emergency power loss table structure.
- The risk of not upgrading to this firmware is the increased possibility of data corruption in emergency power loss events.

- Several maintenance items are included in this firmware revision that reduce the probability of hangs and provide some minor performance improvements.

Online HDD/SSD Flash Component for Windows (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives
Version: HPG3 (E) **(Recommended)**
Filename: cp052964.compsig; cp052964.exe; cp052964.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Server Windows 2022.

Online HDD/SSD Flash Component for Windows (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives
Version: HPG2 (C) **(Recommended)**
Filename: cp052978.compsig; cp052978.exe; cp052978.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Server Windows 2022.

Online HDD/SSD Flash Component for Windows (x64) - MM1000GFJTE Drive
Version: HPG6 (B) **(Recommended)**
Filename: cp052955.compsig; cp052955.exe; cp052955.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Server Windows 2022.

Online HDD/SSD Flash Component for Windows (x64) - MM2000GEFRA Drive
Version: HPG9 (B) **(Recommended)**
Filename: cp052954.compsig; cp052954.exe; cp052954.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Server Windows 2022.

Online HDD/SSD Flash Component for Windows (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives
Version: HPG4 (E) **(Recommended)**
Filename: cp052965.compsig; cp052965.exe; cp052965.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Server Windows 2022.

Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTC, VK003840GWTTD, MK000480GWTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives
Version: HPG6 (E) **(Recommended)**
Filename: cp052961.compsig; cp052961.exe; cp052961.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Server 2022.

Online HDD/SSD Flash Component for Windows (x64) - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives
Version: HPG1 (D) **(Recommended)**
Filename: cp052976.compsig; cp052976.exe; cp052976.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Server 2022.

Online HDD/SSD Flash Component for Windows (x64) - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives
Version: HPG2 (C) **(Recommended)**
Filename: cp052985.compsig; cp052985.exe; cp052985.md5

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.
- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for Microsoft Windows Sever 2022.

Firmware - Storage Controller Top

Firmware Package - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408e-m, P204i-c and P816i-a SR Gen10 and Gen11 controllers
Version: 5.61 (B) **(Recommended)**
Filename: HPE_SR_Gen10_5.61_B.fwpkg

Prerequisites

The pre-requisite is to upgrade FW to 5.32 to enable the PLDM FW update functionality for adapter through Windows/Linux/ESXi smart components, after that you are able to use FWPKG file to directly flash to 5.61 or future released FW versions via iLO without any OS dependency.

Please find the minimum smart component version required (5.32) in below links:

- Windows: https://www.hpe.com/global/swpublishing/MTX-3542352dcfc24f3f89daf7d1ca
- Linux: https://www.hpe.com/global/swpublishing/MTX-f88e8957738a42ba9200aa5c39
- VMware: https://www.hpe.com/global/swpublishing/MTX-3b6cfcc0327948cf934d36b359

iLO 6 version 1.10 or later is required.

Enhancements

Support ML110 and DL560 Gen11 servers

Firmware Package - HPE Gen11 Boot Controller NS204i-u, NS204i-d and HPE Gen10 Plus Boot Controller NS204i-p, NS204i-d, NS204i-t, NS204i-r
Version: 1.2.14.1009 **(Recommended)**
Filename: HPE_NS204i_Gen10P_Gen11_1.2.14.1009_A.fwpkg

Important Note!

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

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

Prerequisites

- iLO 6 version 1.10 or later is required for Gen11 servers.
- iLO 5 version 2.81 or later is required for Gen10/Gen10P servers

Fixes

IML event and Redfish inventory information optimization.

Enhancements

Downstream device FW update through PLDM.

Firmware Package - HPE MR216i-o Gen11 Tri Mode Controller
Version: 52.22.3-4650 (C) **(Recommended)**
Filename: HPE_MR216i-o_Gen11_52.22.3-4650_C.fwpkg

Important Note!

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

Enhancements

Support HPE ML110 and DL560 Gen11 servers

Firmware Package - HPE MR216i-p Gen11 Tri Mode Controller
Version: 52.22.3-4650 (C) **(Recommended)**
Filename: HPE_MR216i-p_Gen11_52.22.3-4650_C.fwpkg

Important Note!

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

Enhancements

Support HPE ML110 and DL560 Gen11 servers

Firmware Package - HPE MR408i-o Gen11 Tri Mode Controller
Version: 52.22.3-4650 (C) **(Recommended)**
Filename: HPE_MR408i-o_Gen11_52.22.3-4650_C.fwpkg

Important Note!

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

Enhancements

Support HPE ML110 and DL560 Gen11 servers

Firmware Package - HPE MR416i-o Gen11 Tri Mode Controller
Version: 52.22.3-4650 (C) **(Recommended)**
Filename: HPE_MR416i-o_Gen11_52.22.3-4650_C.fwpkg

Important Note!

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

Enhancements

Support HPE ML110 and DL560 Gen11 servers

Firmware Package - HPE MR416i-p Gen11 Tri Mode Controller
Version: 52.22.3-4650 (C) **(Recommended)**
Filename: HPE_MR416i-p_Gen11_52.22.3-4650_C.fwpkg

Important Note!

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

Enhancements

Support HPE ML110 and DL560 Gen11 servers

Firmware Package - HPE SR932i-p Gen10 Plus /SR416i-a Gen10 Plus/SR932i-p Gen11/SR416ie-m Gen11 Controllers
Version: 03.01.17.056 (B) **(Recommended)**
Filename: HPE_SR416_SR932_Gen10P_Gen11_03.01.17.056_B.fwpkg

Enhancements

Support ML110 and DL560 Gen11 servers

HPE D3600/D3700/D3610/D3710 12Gb SAS Disk Enclosure ROM Flash Component for Linux (x64)
Version: 5.04 (F) **(Recommended)**
Filename: CP054931.md5; RPMS/x86_64/firmware-d3000-5.04-6.1.x86_64.compsig; RPMS/x86_64/firmware-d3000-5.04-6.1.x86_64.rpm

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

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The following fixes were incorporated in this version:

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

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

Supported Devices and Features

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

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

HPE D3600/D3700/D3610/D3710 12Gb SAS Disk Enclosure ROM Flash Component for Windows (x64)
Version: 5.04 (F) **(Recommended)**
Filename: cp054932.compsig; cp054932.exe

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 %systemdrive%\CPQSYSTEM\Log\D3000.log and flash summary is logged to %systemdrive%\CPQSYSTEM\Log\cpqsetup.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 %systemdrive%\CPQSYSTEM\Log\D3000.log and flash summary is logged to %systemdrive%\CPQSYSTEM\Log\cpqsetup.log.

Fixes

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The following fixes were incorporated in this version:

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

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

Supported Devices and Features

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

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

HPE D3600B/D3700B/D3610B/D3710B 12Gb SAS Disk Enclosure ROM Flash Component for Linux (x64)
Version: 6.0 **(Recommended)**
Filename: CP054693.md5; RPMS/x86_64/firmware-d3000-6.0-1.1.x86_64.compsig; RPMS/x86_64/firmware-d3000-6.0-1.1.x86_64.rpm

Important Note!

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

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

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

Prerequisites

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

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

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

Fixes

The following fixes were incorporated in this version:

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

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

Supported Devices and Features

The D3600B / D3700B / D3610B / D3710B Enclosure can be attached to any of the following HPE Storage Controllers and Host Bus Adapters :

- Smart Array P841 Controller
- Smart Array P441 Controller
- Smart HBA H241
- Smart Array P408e-p Controller
- Smart Array E208e-p Controller

- Smart Array P408e-m Controller
- Smart Array P741m Controller

HPE D3600B/D3700B/D3610B/D3710B 12Gb SAS Disk Enclosure ROM Flash Component for Windows (x64)
Version: 6.0 **(Recommended)**
Filename: cp054694.compsig; cp054694.exe

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 %systemdrive%\CPQSYSTEM\Log\D3000.log and flash summary is logged to %systemdrive%\CPQSYSTEM\Log\cpqsetup.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 %systemdrive%\CPQSYSTEM\Log\D3000.log and flash summary is logged to %systemdrive%\CPQSYSTEM\Log\cpqsetup.log.

Fixes

The following fixes were incorporated in this version:

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

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

Supported Devices and Features

The D3600B / D3700B / D3610B / D3710B Enclosure can be attached to any of the following HPE Storage Controllers and Host Bus Adapters :

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

Online ROM Flash Component for Linux (x64) - HPE Smart Array E208e-p SR Gen10 on Gen11 servers
Version: 5.32 (C) **(Recommended)**

Filename: rpm/RPMS/x86_64/firmware-smartarray-f7c07bdbbd-5.32-3.1.x86_64.compsig; rpm/RPMS/x86_64/firmware-smartarray-f7c07bdbbd-5.32-3.1.x86_64.rpm

Enhancements

- Add Gen11 servers into support list

Online ROM Flash Component for VMware ESXi - HPE Smart Array E208e-p SR Gen10 on Gen11 servers
Version: 5.32 (C) **(Recommended)**
Filename: CP053948.compsig; CP053948.zip

Enhancements

- Add Gen11 servers into support list

Online ROM Flash Component for Windows (x64) - HPE Smart Array E208e-p SR Gen10 on Gen11 servers
Version: 5.32 (C) **(Recommended)**
Filename: cp053950.compsig; cp053950.exe; cp053950.md5

Enhancements

- Add Gen11 servers into support list

Firmware - Storage Fibre Channel Top

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

Important Note!

This Firmware package contains following firmware versions:

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

Enhancements

This Firmware package contains following firmware versions:

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

HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.0.499.29	14.0.499.29	14.0.499.2	14.0.490.0

Supported Devices and Features

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

32Gb Fibre Channel Host Bus Adapter:

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

64Gb Fibre Channel Host Bus Adapter:

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

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HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Linux (x86_64)
Version: 2023.04.01 **(Recommended)**
Filename: RPMS/x86_64/firmware-fc-qlogic-2023.04.01-1.1.x86_64.compsig; RPMS/x86_64/firmware-fc-qlogic-2023.04.01-1.1.x86_64.rpm

Important Note!

Release Notes:
HPE QLogic Adapters Release Notes

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.07.04	09.09.20	7.28	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.07.04	09.09.20	7.28	0.0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.07.04	09.09.20	7.28	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.07.04	09.09.20	7.28	0.0

Prerequisites

Firmware updates may be accomplished using the inbox or Out of Box (OOB) drivers. Please consult SPOCK for a list of supported configurations available at the following link:

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

The target environment must have the libHBAAPI Package installed prior to the installation of the firmware as the discovery of adapters might not complete without the library. (If not already present, the libHBAAPI Package can be obtained from the operating system installation media.)

The HPE supplied enablement kit must be installed prior to this firmware component being identified by SUM for deployment.

The OOB driver and enablement kit are available on the Service Pack for ProLiant (SPP) which is available at http://www.hpe.com/servers/spp/download.

- It is advised to provide read-write permissions on /var/tmp folder. Firmware deployment via Service Pack for ProLiant(SPP) might be unsuccessful in some cases , if read-write(rw) permissions are not enable on /tmp or /var/tmp directories.

Enhancements

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.07.04	09.09.20	7.28	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.07.04	09.09.20	7.28	0.0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.07.04	09.09.20	7.28	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.07.04	09.09.20	7.28	0.0

Supported Devices and Features

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

32Gb Fibre Channel Host Bus Adapter:

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

64Gb Fibre Channel Host Bus Adapter:

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

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HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Microsoft Windows Server 2019/2022 (x86_64)
Version: 2023.04.01 **(Recommended)**
Filename: cp054988.compsig; cp054988.exe

Important Note!

Release Notes:
HPE QLogic Adapters Release Notes

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.07.04	09.09.20	7.28	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.07.04	09.09.20	7.28	0.0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.07.04	09.09.20	7.28	0.0

HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.07.04	09.09.20	7.28	0.0

Prerequisites

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

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

The OOB driver is available on the Service Pack for ProLiant (SPP) which is available at http://www.hpe.com/servers/spp/download.

Enhancements

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.07.04	09.09.20	7.28	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.07.04	09.09.20	7.28	0.0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.07.04	09.09.20	7.28	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.07.04	09.09.20	7.28	0.0

Supported Devices and Features

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

32Gb Fibre Channel Host Bus Adapter:

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

64Gb Fibre Channel Host Bus Adapter:

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

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HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 7.0
Version: 2023.04.01 **(Recommended)**
Filename: CP054985.compsig; CP054985.zip

Important Note!

Release Notes:
HPE QLogic Adapters Release Notes

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.07.04	09.09.20	7.28	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.07.04	09.09.20	7.28	0.0

HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.07.04	09.09.20	7.28	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.07.04	09.09.20	7.28	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/

Enhancements

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.07.04	09.09.20	7.28	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.07.04	09.09.20	7.28	0.0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.07.04	09.09.20	7.28	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.07.04	09.09.20	7.28	0.0

Supported Devices and Features

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

32Gb Fibre Channel Host Bus Adapter:

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

64Gb Fibre Channel Host Bus Adapter:

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

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HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 8.0
Version: 2023.04.01 **(Recommended)**
Filename: CP054986.compsig; CP054986.zip

Important Note!

Release Notes:
HPE QLogic Adapters Release Notes

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.07.04	09.09.20	7.28	0.0

HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.07.04	09.09.20	7.28	0.0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.07.04	09.09.20	7.28	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.07.04	09.09.20	7.28	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/

Enhancements

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.07.04	09.09.20	7.28	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.07.04	09.09.20	7.28	0.0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.07.04	09.09.20	7.28	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.07.04	09.09.20	7.28	0.0

Supported Devices and Features

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

32Gb Fibre Channel Host Bus Adapter:

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

64Gb Fibre Channel Host Bus Adapter:

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

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Firmware - System Top

Firmware Package - UBM2 Backplane PIC PLDM Firmware for Gen11 Servers
Version: 1.20 (D) **(Recommended)**
Filename: HPE_UBM2_1.20_D.fwpkg

Important Note!

Flash FWPKG Component on Web Standalone mode

- **PLDM FWPKG component only supports installation of UBM2 firmware when attached to HPE SR416/SR932(Firmware version 3.01.14.062 or later is need) or HPE smart array controllers(Firmware version 5.32 or later is need) or HPE MR216/416/408 controllers(Firmware version 52.22.3-4650 or later is need)**

- **PLDM FWPKG component can be supported installation of UBM2 firmware when direct attached the the server**

It doesn't support flash FWPKG on Gen10/Gen10 Plus 2023.03.00.00 SPP and we expect to support this feature on 2023.09.

Prerequisites

- iLO 6 version 1.10 or later is required for Gen11 servers.

Enhancements

Support Gen11 Intel servers.

Firmware Package - UBM3 Backplane PIC PLDM Firmware for Gen10/Gen10P/Gen11 servers usage
Version: 1.24 (E) **(Recommended)**
Filename: HPE_UBM3_1.24_E.fwpkg

Important Note!

Flash FWPKG Component on Web Standalone mode

- **PLDM FWPKG component only supports installation of UBM3 firmware when attached to HPE SR416/SR932(Firmware version 3.01.14.062 or later is need) or HPE smart array controllers(Firmware version 5.32 or later is need) or HPE MR216/416/408 controllers(Firmware version 52.22.3-4650 or later is need)**
- **PLDM FWPKG component can be supported installation of UBM3 firmware when direct attached the the server**

It doesn't support flash FWPKG on Gen10/Gen10 Plus 2023.03.00.00 SPP and we expect to support this feature on 2023.09

Prerequisites

- iLO 6 version 1.10 or later is required for Gen11 servers.
- iLO 5 version 2.72 or later is required for Gen10/Gen10P servers

Enhancements

Support new ML110 and DL560 Gen11 servers

Firmware Package - UBM4 Backplane PIC PLDM Firmware for Gen10/Gen10P/Gen11 servers usage
Version: 1.24 (F) **(Recommended)**
Filename: HPE_UBM4_1.24_F.fwpkg

Important Note!

Flash FWPKG Component on Web Standalone mode

- **PLDM FWPKG component only supports installation of UBM4 firmware when attached to HPE SR416/SR932(Firmware version 3.01.14.062 or later is need) or HPE MR216/416/408 controllers(Firmware version 52.22.3-4650 or later is need)**

- **PLDM FWPKG component can be supported installation of UBM4 firmware when direct attached the the server**

It doesn't support flash FWPKG on Gen10/Gen10 Plus 2023.03.00.00 SPP and we expect to support this feature on 2023.09

Prerequisites

- iLO 6 version 1.10 or later is required for Gen11 servers.
- iLO 5 version 2.72 or later is required for Gen10/Gen10P servers

Enhancements

For Gen11 2023.04.00.00 & 2023 March MSB

Firmware Package - UBM5 Backplane PIC PLDM Firmware for Gen11 servers usage
Version: 1.06 **(Recommended)**
Filename: HPE_UBM5_1.06_A.fwpkg

Important Note!

Flash FWPKG Component on Web Standalone mode

- **PLDM FWPKG component only supports installation of UBM5 firmware when attached to HPE SR416/SR932(Firmware version 3.01.14.062 or later is need) on HPE Alletra 4120 Server**
- **PLDM FWPKG component can be supported installation of UBM5 firmware when direct attached the the server**

It doesn't support flash FWPKG on Gen10/Gen10 Plus 2023.03.00.00 SPP and we expect to support this feature on 2023.09

Prerequisites

iLO 6 version 1.10 or later is required.

Enhancements

- Initial version with PLDM header

Firmware Package - UBM6 Backplane PIC PLDM Firmware for Gen10/Gen10P/Gen11 servers usage
Version: 1.02 (E) **(Recommended)**
Filename: HPE_UBM6_1.02_E.fwpkg

Important Note!

Flash FWPKG Component on Web Standalone mode

- **PLDM FWPKG component only supports installation of UBM6 firmware when attached to HPE SR416/SR932(Firmware version 3.01.14.062 or later is need) or HPE smart array controllers(Firmware version 5.32 or later is need) or HPE MR216/416/408 controllers(Firmware version 52.22.3-4650 or later is need)**

- **PLDM FWPKG component can be supported installation of UBM6 firmware when direct attached the the server**

It doesn't support flash FWPKG on Gen10/Gen10 Plus 2023.03.00.00 SPP and we expect to support this feature on 2023.09

Prerequisites

- iLO 6 version 1.10 or later is required for Gen11 servers.
- iLO 5 version 2.72 or later is required for Gen10/Gen10P servers

Enhancements

For Gen11 2023.04.00.00 & 2023 March MSB

Online ROM Flash Component for Windows x64 - Server Platform Services (SPS) Firmware for HPE Alletra 4110/Alletra 4120/ProLiant DL380a Gen11 Servers
Version: 06.00.04.033.0 **(Recommended)**
Filename: cp056090.compsig; cp056090.exe

Important Note!

Important Notes:

This version of the Server Platform Services (SPS) Firmware contains updates aligned with the Intel Best Known Configuration (BKC) WW09.

Deliverable Name:

HPE Alletra 4110/Alletra 4120/ProLiant DL380a Gen11 Server Platform Services (SPS) Firmware

Release Version:

06.00.04.033.0

Last Recommended or Critical Revision:

06.00.04.033.0

Previous Revision:

06.00.04.031.0

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Updated Server Platform Services (SPS) Firmware to 06.00.04.033.0 to align with the Intel Best Known Configuration (BKC) WW09.

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver" (CHIF) for Windows which is available from Service Pack for ProLiant (SPP).

Fixes

Important Notes:

This version of the Server Platform Services (SPS) Firmware contains updates aligned with the Intel Best Known Configuration (BKC) WW09.

Firmware Dependencies:

None

Problems Fixed:

Updated Server Platform Services (SPS) Firmware to 06.00.04.033.0 to align with the Intel Best Known Configuration (BKC) WW09.

Known Issues:

None

Online ROM Flash Component for Windows x64 - Server Platform Services (SPS) Firmware for HPE ProLiant DL320/ML110 Gen11
Version: 06.00.04.033.0 **(Recommended)**
Filename: cp056093.compsig; cp056093.exe

Important Note!

Important Notes:

This version of the Server Platform Services (SPS) Firmware contains updates aligned with the Intel Best Known Configuration (BKC) WW09.

Deliverable Name:

HPE ProLiant DL320 Gen11 Server Platform Services (SPS) Firmware

Release Version:

06.00.04.033.0

Last Recommended or Critical Revision:

06.00.04.033.0

Previous Revision:

06.00.04.031.0

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Updated Server Platform Services (SPS) Firmware to 06.00.04.033.0 to align with the Intel Best Known Configuration (BKC) WW09.

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver" (CHIF) for Windows which is available from Service Pack for ProLiant (SPP).

Fixes

Important Notes:

This version of the Server Platform Services (SPS) Firmware contains updates aligned with the Intel Best Known Configuration (BKC) WW09.

Firmware Dependencies:

None

Problems Fixed:

Updated Server Platform Services (SPS) Firmware to 06.00.04.033.0 to align with the Intel Best Known Configuration (BKC) WW09.

Known Issues:

None

Online ROM Flash Component for Windows x64 - Server Platform Services (SPS) Firmware for HPE ProLiant DL360/DL380/ML350 Gen11
Version: 06.00.04.033.0 **(Recommended)**
Filename: cp056085.compsig; cp056085.exe

Important Note!

Important Notes:

This version of the Server Platform Services (SPS) Firmware contains updates aligned with the Intel Best Known Configuration (BKC) WW09.

Deliverable Name:

HPE ProLiant DL360/DL380/ML350 Gen11 Server Platform Services (SPS) Firmware

Release Version:

06.00.04.033.0

Last Recommended or Critical Revision:

06.00.04.033.0

Previous Revision:

06.00.04.031.0

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Updated Server Platform Services (SPS) Firmware to 06.00.04.033.0 to align with the Intel Best Known Configuration (BKC) WW09.

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver" (CHIF) for Windows which is available from Service Pack for ProLiant (SPP).

Fixes

Important Notes:

This version of the Server Platform Services (SPS) Firmware contains updates aligned with the Intel Best Known Configuration (BKC) WW09.

Firmware Dependencies:

None

Problems Fixed:

Updated Server Platform Services (SPS) Firmware to 06.00.04.033.0 to align with the Intel Best Known Configuration (BKC) WW09.

Known Issues:

None

Online ROM Flash Component for Windows x64 - Server Platform Services (SPS) Firmware for HPE ProLiant DL560 Gen11 Servers
Version: 06.00.04.033.0 **(Recommended)**
Filename: cp051699.compsig; cp051699.exe

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant DL560 Gen11 Server Platform Services (SPS) Firmware

Release Version:

06.00.04.033.0

Last Recommended or Critical Revision:

This is the initial version of the firmware

Previous Revision:

This is the initial version of the firmware

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial version of the firmware.

Problems Fixed:

None

Known Issues:

None

Prerequisites

The "iLO 5 Channel Interface Driver" (CHIF) for Windows which is available from Service Pack for ProLiant (SPP).

Enhancements

Important Notes:

None

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial version of the firmware.

Known Issues:

None

Online ROM Flash for Linux - Server Platform Services (SPS) Firmware for HPE Alletra 4110/Alletra 4120/ProLiant DL380a Gen11 Servers
Version: 06.00.04.033.0 **(Recommended)**
Filename: RPMS/x86_64/firmware-u58_me-06.00.04.033.0-1.1.x86_64.compsig; RPMS/x86_64/firmware-u58_me-06.00.04.033.0-1.1.x86_64.rpm

Important Note!

Important Notes:

This version of the Server Platform Services (SPS) Firmware contains updates aligned with the Intel Best Known Configuration (BKC) WW09.

Deliverable Name:

HPE Alletra 4110/Alletra 4120/ProLiant DL380a Gen11 Server Platform Services (SPS) Firmware

Release Version:

06.00.04.033.0

Last Recommended or Critical Revision:

06.00.04.033.0

Previous Revision:

06.00.04.031.0

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Updated Server Platform Services (SPS) Firmware to 06.00.04.033.0 to align with the Intel Best Known Configuration (BKC) WW09.

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver" (CHIF) for Linux which is integrated into the standard Linux kernel.

Fixes

Important Notes:

This version of the Server Platform Services (SPS) Firmware contains updates aligned with the Intel Best Known Configuration (BKC) WW09.

Firmware Dependencies:

None

Problems Fixed:

Updated Server Platform Services (SPS) Firmware to 06.00.04.033.0 to align with the Intel Best Known Configuration (BKC) WW09.

Known Issues:

None

Online ROM Flash for Linux - Server Platform Services (SPS) Firmware for HPE ProLiant DL110 Gen11 Servers
Version: 06.00.04.033.0 **(Recommended)**
Filename: RPMS/x86_64/firmware-u62_me-06.00.04.033.0-1.1.x86_64.compsig; RPMS/x86_64/firmware-u62_me-06.00.04.033.0-1.1.x86_64.rpm

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant DL110 Gen11 Server Platform Services (SPS) Firmware

Release Version:

06.00.04.033.0

Last Recommended or Critical Revision:

This is the initial version of the firmware

Previous Revision:

This is the initial version of the firmware

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial version of the firmware.

Problems Fixed:

None

Known Issues:

None

Prerequisites

The "iLO 5 Channel Interface Driver" (CHIF) for Linux which is integrated into the standard Linux kernel.

Enhancements

Important Notes:

None

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial version of the firmware.

Known Issues:

None

Online ROM Flash for Linux - Server Platform Services (SPS) Firmware for HPE ProLiant DL320/ML110 Gen11
Version: 06.00.04.033.0 **(Recommended)**
Filename: RPMS/x86_64/firmware-u63_me-06.00.04.033.0-1.1.x86_64.compsig; RPMS/x86_64/firmware-u63_me-06.00.04.033.0-1.1.x86_64.rpm

Important Note!

Important Notes:

This version of the Server Platform Services (SPS) Firmware contains updates aligned with the Intel Best Known Configuration (BKC) WW09.

Deliverable Name:

HPE ProLiant DL320 Gen11 Server Platform Services (SPS) Firmware

Release Version:

06.00.04.033.0

Last Recommended or Critical Revision:

06.00.04.033.0

Previous Revision:

06.00.04.031.0

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Updated Server Platform Services (SPS) Firmware to 06.00.04.033.0 to align with the Intel Best Known Configuration (BKC) WW09.

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver" (CHIF) for Linux which is integrated into the standard Linux kernel.

Fixes

Important Notes:

This version of the Server Platform Services (SPS) Firmware contains updates aligned with the Intel Best Known Configuration (BKC) WW09.

Firmware Dependencies:

None

Problems Fixed:

Updated Server Platform Services (SPS) Firmware to 06.00.04.033.0 to align with the Intel Best Known Configuration (BKC) WW09.

Known Issues:

None

Online ROM Flash for Linux - Server Platform Services (SPS) Firmware for HPE ProLiant DL360/DL380/ML350 Gen11
Version: 06.00.04.033.0 **(Recommended)**
Filename: RPMS/x86_64/firmware-u54_me-06.00.04.033.0-1.1.x86_64.compsig; RPMS/x86_64/firmware-u54_me-06.00.04.033.0-1.1.x86_64.rpm

Important Note!

Important Notes:

This version of the Server Platform Services (SPS) Firmware contains updates aligned with the Intel Best Known Configuration (BKC) WW09.

Deliverable Name:

HPE ProLiant DL360/DL380/ML350 Gen11 Server Platform Services (SPS) Firmware

Release Version:

06.00.04.033.0

Last Recommended or Critical Revision:

06.00.04.033.0

Previous Revision:

06.00.04.031.0

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Updated Server Platform Services (SPS) Firmware to 06.00.04.033.0 to align with the Intel Best Known Configuration (BKC) WW09.

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver" (CHIF) for Linux which is integrated into the standard Linux kernel.

Fixes

Important Notes:

This version of the Server Platform Services (SPS) Firmware contains updates aligned with the Intel Best Known Configuration (BKC) WW09.

Firmware Dependencies:

None

Problems Fixed:

Updated Server Platform Services (SPS) Firmware to 06.00.04.033.0 to align with the Intel Best Known Configuration (BKC) WW09.

Known Issues:

None

Online ROM Flash for Linux - Server Platform Services (SPS) Firmware for HPE ProLiant DL560 Gen11 Servers
Version: 06.00.04.033.0 **(Recommended)**
Filename: RPMS/x86_64/firmware-u59_me-06.00.04.033.0-1.1.x86_64.compsig; RPMS/x86_64/firmware-u59_me-06.00.04.033.0-1.1.x86_64.rpm

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant DL560 Gen11 Server Platform Services (SPS) Firmware

Release Version:

06.00.04.033.0

Last Recommended or Critical Revision:

This is the initial version of the firmware

Previous Revision:

This is the initial version of the firmware

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial version of the firmware.

Problems Fixed:

None

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver" (CHIF) for Linux which is integrated into the standard Linux kernel.

Enhancements

Important Notes:

None

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial version of the firmware.

Known Issues:

None

ROM Flash Firmware Package - Server Platform Services (SPS) Firmware for HPE Alletra 4110/Alletra 4120/ProLiant DL380a Gen11 Servers
Version: 06.00.04.033.0 **(Recommended)**
Filename: SC_U58_ME_06.00.04.033.0.fwpkg

Important Note!

Important Notes:

This version of the Server Platform Services (SPS) Firmware contains updates aligned with the Intel Best Known Configuration (BKC) WW09.

Deliverable Name:

HPE Alletra 4110/Alletra 4120/ProLiant DL380a Gen11 Server Platform Services (SPS) Firmware

Release Version:

06.00.04.033.0

Last Recommended or Critical Revision:

06.00.04.033.0

Previous Revision:

06.00.04.031.0

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Updated Server Platform Services (SPS) Firmware to 06.00.04.033.0 to align with the Intel Best Known Configuration (BKC) WW09.

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver" (CHIF) for Windows which is available from Service Pack for ProLiant (SPP).

Fixes

Important Notes:

This version of the Server Platform Services (SPS) Firmware contains updates aligned with the Intel Best Known Configuration (BKC) WW09.

Firmware Dependencies:

None

Problems Fixed:

Updated Server Platform Services (SPS) Firmware to 06.00.04.033.0 to align with the Intel Best Known Configuration (BKC) WW09.

Known Issues:

None

ROM Flash Firmware Package - Server Platform Services (SPS) Firmware for HPE ProLiant DL110 Gen11 Servers
Version: 06.00.04.033.0 **(Recommended)**
Filename: SC_U62_ME_06.00.04.033.0.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant DL110 Gen11 Server Platform Services (SPS) Firmware

Release Version:

06.00.04.033.0

Last Recommended or Critical Revision:

This is the initial version of the firmware

Previous Revision:

This is the initial version of the firmware

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial version of the firmware.

Problems Fixed:

None

Known Issues:

None

Prerequisites

The "iLO 5 Channel Interface Driver" (CHIF) for Windows which is available from Service Pack for ProLiant (SPP).

Enhancements

Important Notes:

None

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial version of the firmware.

Known Issues:

None

ROM Flash Firmware Package - Server Platform Services (SPS) Firmware for HPE ProLiant DL320/ML110 Gen11 Servers
Version: 06.00.04.033.0 **(Recommended)**
Filename: SC_U63_ME_06.00.04.033.0.fwpkg

Important Note!

Important Notes:

This version of the Server Platform Services (SPS) Firmware contains updates aligned with the Intel Best Known Configuration (BKC) WW09.

Deliverable Name:

HPE ProLiant DL320 Gen11 Server Platform Services (SPS) Firmware

Release Version:

06.00.04.033.0

Last Recommended or Critical Revision:

06.00.04.033.0

Previous Revision:

06.00.04.031.0

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Updated Server Platform Services (SPS) Firmware to 06.00.04.033.0 to align with the Intel Best Known Configuration (BKC) WW09.

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver" (CHIF) for Windows which is available from Service Pack for ProLiant (SPP).

Fixes

Important Notes:

This version of the Server Platform Services (SPS) Firmware contains updates aligned with the Intel Best Known Configuration (BKC) WW09.

Firmware Dependencies:

None

Problems Fixed:

Updated Server Platform Services (SPS) Firmware to 06.00.04.033.0 to align with the Intel Best Known Configuration (BKC) WW09.

Known Issues:

None

ROM Flash Firmware Package - Server Platform Services (SPS) Firmware for HPE ProLiant DL360/DL380/ML350 Gen11 Servers
Version: 06.00.04.033.0 **(Recommended)**
Filename: SC_U54_ME_06.00.04.033.0.fwpkg

Important Note!

Important Notes:

This version of the Server Platform Services (SPS) Firmware contains updates aligned with the Intel Best Known Configuration (BKC) WW09.

Deliverable Name:

HPE ProLiant DL360/DL380/ML350 Gen11 Server Platform Services (SPS) Firmware

Release Version:

06.00.04.033.0

Last Recommended or Critical Revision:

06.00.04.033.0

Previous Revision:

06.00.04.031.0

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Updated Server Platform Services (SPS) Firmware to 06.00.04.033.0 to align with the Intel Best Known Configuration (BKC) WW09.

Known Issues:

None

Prerequisites

The "iLO 6 Channel Interface Driver" (CHIF) for Windows which is available from Service Pack for ProLiant (SPP).

Fixes

Important Notes:

This version of the Server Platform Services (SPS) Firmware contains updates aligned with the Intel Best Known Configuration (BKC) WW09.

Firmware Dependencies:

None

Problems Fixed:

Updated Server Platform Services (SPS) Firmware to 06.00.04.033.0 to align with the Intel Best Known Configuration (BKC) WW09.

Known Issues:

None

ROM Flash Firmware Package - Server Platform Services (SPS) Firmware for HPE ProLiant DL560 Gen11 Servers
Version: 06.00.04.033.0 **(Recommended)**
Filename: SC_U59_ME_06.00.04.033.0.fwpkg

Important Note!

Important Notes:

None

Deliverable Name:

HPE ProLiant DL560 Gen11 Server Platform Services (SPS) Firmware

Release Version:

06.00.04.033.0

Last Recommended or Critical Revision:

This is the initial version of the firmware

Previous Revision:

This is the initial version of the firmware

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial version of the firmware.

Problems Fixed:

None

Known Issues:

None

Prerequisites

The "iLO 5 Channel Interface Driver" (CHIF) for Windows which is available from Service Pack for ProLiant (SPP).

Enhancements

Important Notes:

None

Firmware Dependencies:

None

Enhancements/New Features:

This is the initial version of the firmware.

Known Issues:

None

Operating System - Enhancements Top

AMD PSHED Plug-in service for Microsoft Windows Server 2019
Version: 1.0.0.49 (B) **(Recommended)**
Filename: cp055810.compsig; cp055810.exe

Enhancements

- Added support for Gen10/Gen10 Plus platforms

AMD PSHED Plug-in service for Microsoft Windows Server 2022
Version: 1.0.0.49 (B) **(Recommended)**
Filename: cp055811.compsig; cp055811.exe

Enhancements

- Added support for Gen10/Gen10 Plus platforms

Software - Lights-Out Management

Top

HPE Lights-Out Online Configuration Utility for Linux (AMD64/EM64T)
Version: 6.0.0-0 **(Optional)**
Filename: hponcfg-6.0.0-0.x86_64.compsig; hponcfg-6.0.0-0.x86_64.rpm

Prerequisites

For Integrated Lights-Out 5, this utility requires minimum firmware revision 1.20 or later.

The management interface driver and management agents must be installed on the server.

For iLO 5 or later, openssl v1.0.x or later is required in addition to above packages.
Customers who manually compile and install openssl or intentionally relocate /usr/bin/openssl, need to set PATH environment variable to direct HPONCFG to the right/intended openssl.

Enhancements

Introduced support for iLO6.

HPE Lights-Out Online Configuration Utility for Windows x64 Editions
Version: 6.0.0.0 **(Optional)**
Filename: cp049814.compsig; cp049814.exe

Prerequisites

This utility requires the following minimum firmware revisions:

- Integrated Lights-Out 4 firmware v1.00 or later
- Integrated Lights-Out 5 firmware v1.30 or later
- Integrated Lights-Out 6 firmware v1.10 or later

The management interface driver must be installed on the server.

Microsoft .Net Framework 2.0 or later is required to launch HPONCFG GUI.

Enhancements

Introduced support for iLO 6.

Software - Management

Top

HPE Agentless Management Bundle Smart Component on ESXi for Gen11 Servers
Version: 2023.04.01 **(Recommended)**
Filename: cp054826.compsig; cp054826.zip

Enhancements

Agentless Management Service

- Add PCIe multi-segment platform feature support

HPE Fiber Channel and Storage Enablement Bundle Smart Component for ESXi 7.0
Version: 2022.09.01 **(Recommended)**
Filename: cp050934.compsig; cp050934.zip

Enhancements

- Supports VMware ESXi 7.0 U2 and ESXi 7.0 U3

HPE Fiber Channel and Storage Enablement Bundle Smart Component for ESXi 8.0
Version: 2022.09.01 **(Recommended)**
Filename: cp051152.compsig; cp051152.zip

Enhancements

Supports VMware ESXi 8.0

HPE iLO Driver Bundle Smart Component for ESXi 7.0
Version: 2022.09.01 **(Recommended)**
Filename: cp050763.compsig; cp050763.zip

Fixes

- Fixed issue where ilo driver is failing to acquire contiguous physical memory below 4GB causing userworld apps like hponcfg to be unable to communicate with iLO.

Enhancements

- Added support for vSphere 8.0

Smart Storage Administrator (SSA) CLI Smart Component for ESXi 7.0 for Gen10/Gen10 Plus/Gen11 Controllers
Version: 2023.04.01 **(Recommended)**
Filename: cp055515.compsig; cp055515.zip

Enhancements

Support ML110 and DL560 Gen11 servers

Smart Storage Administrator (SSA) CLI Smart Component for ESXi 8.0 for Gen10/Gen10 Plus/Gen11 Controllers
Version: 2023.04.01 **(Recommended)**
Filename: cp055513.compsig; cp055513.zip

Enhancements

Support ML110 and DL560 Gen11 servers

Software - Storage Controller

Top

HPE MegaRAID Storage Administrator StorCLI for VMware7.0 (For Gen10P and Gen11 Controllers)
Version: 2023.04.01 **(Recommended)**
Filename: cp055452.compsig; cp055452.zip

Enhancements

Support HPE ML110 and DL560 Gen11 servers

Software - Storage Fibre Channel

Top

HPE QLogic Fibre Channel driver component for VMware vSphere 7.0
Version: 2023.03.01 **(Recommended)**
Filename: cp054353.compsig; cp054353.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.

This Driver is supported on VMware 7.0U3 only

Prerequisites

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

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

Enhancements

Driver version 5.3.1.0

This Driver is supported on VMware 7.0U3 only

Supported Devices and Features

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

32Gb Fibre Channel Host Bus Adapter:

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

64Gb Fibre Channel Host Bus Adapter:

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

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HPE QLogic Fibre Channel driver component for VMware vSphere 8.0
Version: 2023.03.01 **(Recommended)**
Filename: cp054352.compsig; cp054352.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.

Prerequisites

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

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

Enhancements

Driver version 5.3.1.0

Supported Devices and Features

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

32Gb Fibre Channel Host Bus Adapter:

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

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

64Gb Fibre Channel Host Bus Adapter:

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

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HPE Storage Emulex Fibre Channel driver component for VMware vSphere 7.0
Version: 2023.03.01 **(Recommended)**
Filename: cp054347.compsig; cp054347.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.

Prerequisites

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

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

Enhancements

Updated to Driver version 14.0.543.0

Supported Devices and Features

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

32Gb FC Adapter:

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

64Gb FC Adapter:

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

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Software - Storage Fibre Channel HBA Top

Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux - Red Hat Enterprise Linux (RHEL)
Version: 4.2-1 (b) **(Optional)**
Filename: fibreutils-4.2-1_rhel.x86_64.compsig; fibreutils-4.2-1_rhel.x86_64.rpm

Prerequisites

Requires the following packages to be installed: glibc libgcc libstdc++ bash perl

Enhancements

This package supports only Red Hat Enterprise Linux (RHEL) Distros

Supported Devices and Features

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

32Gb FC Adapter:

- HPE SN1610E 32Gb Dual port Fibre Channel Host Bus Adapter
- HPE SN1610E 32Gb Single port Fibre Channel Host Bus Adapter
- HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter

64Gb FC Adapter:

- HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter

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Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux - SuSE Linux Enterprise Server(SLES)
Version: 4.2-1 (b) **(Optional)**
Filename: fibreutils-4.2-1_sles.x86_64.compsig; fibreutils-4.2-1_sles.x86_64.rpm

Prerequisites

Requires the following packages to be installed: glibc libgcc libstdc++ bash perl

Enhancements

This package supports only SuSE Linux Enterprise Server(SLES) Distros

Supported Devices and Features

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

32Gb FC Adapter:

- HPE SN1610E 32Gb Dual port Fibre Channel Host Bus Adapter
- HPE SN1610E 32Gb Single port Fibre Channel Host Bus Adapter
- HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter

64Gb FC Adapter:

- HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter

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HPE Emulex Fibre Channel Enablement Kit for Host Bus Adapters for Red Hat Enterprise Linux 8 Server
Version: 14.0.499.28 **(Recommended)**
Filename: HPE-CNA-FC-Emulex-Enablement-Kit-14.0.499.28-1.rhel8.x86_64.compsig; HPE-CNA-FC-Emulex-Enablement-Kit-14.0.499.28-1.rhel8.x86_64.rpm

Important Note!

The target environment must have the libHBAAPI Package installed prior to the installation of the enablement kit. (If not already present, the libHBAAPI Package can be obtained from the operating system installation media.)

Prerequisites

The target environment must have the libHBAAPI Package installed prior to the installation of the enablement kit. (If not already present, the libHBAAPI Package can be obtained from the operating system installation media.)

Enhancements

Updated to version 14.0.499.28-1

Supported Devices and Features

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

32Gb FC Adapter:

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

64Gb FC Adapter:

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

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HPE Emulex Fibre Channel Enablement Kit for Host Bus Adapters for SuSE Linux Enterprise Server 15
Version: 14.0.499.28 **(Recommended)**
Filename: HPE-CNA-FC-Emulex-Enablement-Kit-14.0.499.28-1.sles15sp4.x86_64.compsig; HPE-CNA-FC-Emulex-Enablement-Kit-14.0.499.28-1.sles15sp4.x86_64.rpm

Important Note!

The target environment must have the libHBAAPI Package installed prior to the installation of the enablement kit. (If not already present, the libHBAAPI Package can be obtained from the operating system installation media.)

Rewrite of same Enablement kit version on SuSE Linux Enterprise Server 15 service pack 4 has to be performed using --reinstall option

Example: rpm –Uvh HPE-CNA-FC-Emulex-Enablement-Kit-<version>.<OS>.<architecture>.rpm --reinstall

For more information please refer the Knowledge Base at: https://www.suse.com/support/kb/doc/?id=000019640

Prerequisites

The target environment must have the libHBAAPI Package installed prior to the installation of the enablement kit. (If not already present, the libHBAAPI Package can be obtained from the operating system installation media.)

Enhancements

Updated to version 14.0.499.28-1

Supported Devices and Features

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

32Gb FC Adapter:

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

64Gb FC Adapter:

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

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HPE Emulex Fibre Channel Smart SAN Enablement Kit for Host Bus Adapters for Microsoft Windows Server 2019 (x86_64)
Version: 1.0.0.1 (b) **(Optional)**
Filename: cp054346.compsig; cp054346.exe

Important Note!

The Smart SAN enablement kit will not execute when an operating system has only the inbox fibre channel driver installed. An out of box (OOB) fibre channel driver is needed to utilize Smart SAN functionality. If any OOB driver is installed, the enablement kit will pre-enable/disable Smart SAN functionality for future use. It can then be activated once a Smart SAN enabled OOB driver is installed (see Prerequisite Notes) and after a reboot has occured.

Obtain Smart SAN User Guide for 3PAR at following link: HPE Smart SAN for 3PAR 2.0 User Guide

Prerequisites

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

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

The HPE supplied fibre channel driver must be installed prior to this enablement kit component if you want to enable Smart SAN functionality. The latest Emulex FC driver 14.0.534.0 is available on the Service Pack for ProLiant (SPP) which is available at http://www.hpe.com/servers/spp/download/

However, if a Smart SAN enabled driver is not installed at execution time, the component will land the enablement kit files for future use after the driver has been installed.

Enhancements

Updated to version 1.0.0.1

Supported Devices and Features

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

32Gb FC Adapter:

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

64Gb FC Adapter:

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

HPE Emulex Fibre Channel Smart SAN Enablement Kit for Host Bus Adapters for Microsoft Windows Server 2022 (x86_64)
Version: 1.0.0.1 (b) **(Optional)**
Filename: cp054345.compsig; cp054345.exe

Important Note!

The Smart SAN enablement kit will not execute when an operating system has only the inbox fibre channel driver installed. An out of box (OOB) fibre channel driver is needed to utilize Smart SAN functionality. If any OOB driver is installed, the enablement kit will pre-enable/disable Smart SAN functionality for future use. It can then be activated once a Smart SAN enabled OOB driver is installed (see Prerequisite Notes) and after a reboot has occured.

Obtain Smart SAN User Guide for 3PAR at following link: HPE Smart SAN for 3PAR 2.0 User Guide

Prerequisites

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

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

The HPE supplied fibre channel driver must be installed prior to this enablement kit component if you want to enable Smart SAN functionality. The driver is available on the HPE.com website at www.hpe.com.

HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver
v14.0.534.0 cp054344.exe

However, if a Smart SAN enabled driver is not installed at execution time, the component will land the enablement kit files for future use after the driver has been installed.

Enhancements

Updated to version 1.0.0.1

Supported Devices and Features

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

32Gb FC Adapter:

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

64Gb FC Adapter:

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

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HPE Emulex Smart SAN Enablement Kit for Linux
Version: 1.0.0.0-4 (b) **(Optional)**

Filename: hpe-emulex-smartsan-enablement-kit-1.0.0.0-4.x86_64.compsig; hpe-emulex-smartsan-enablement-kit-1.0.0.0-4.x86_64.rpm

Important Note!

The Smart SAN enablement kit will not execute when an operating system has only the inbox fibre channel driver installed. An out of box (OOB) fibre channel driver is needed to utilize Smart SAN functionality. If any OOB driver is installed, the enablement kit will pre-enable/disable Smart SAN functionality for future use. It can then be activated once a Smart SAN enabled OOB driver is installed (see Prerequisite Notes) and after a reboot has occured.

Obtain Smart SAN User Guide for 3PAR at following link: HPE Smart SAN for 3PAR 2.0 User Guide

Prerequisites

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

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

The HPE supplied fibre channel driver must be installed prior to this enablement kit component if you want to enable Smart SAN functionality. The driver is available on the HPE.com website at www.hpe.com.

Linux FC Driver Kit for HPE Emulex FC HBAs, version 14.0.xxx.x for RedHat 8, RedHat 9 and SUSE 15.

However, if a Smart SAN enabled driver is not installed at execution time, the component will land the enablement kit files for future use after the driver has been installed.

Enhancements

Updated to version 1.0.0.0-4

Supported Devices and Features

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

32Gb FC Adapter:

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

64Gb FC Adapter:

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

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HPE QLogic Fibre Channel Enablement Kit for Host Bus Adapter for Linux
Version: 6.0.0.0-18 (b) **(Optional)**
Filename: HPE-CNA-FC-hpeqlgc-Enablement-Kit-6.0.0.0-18.noarch.compsig; HPE-CNA-FC-hpeqlgc-Enablement-Kit-6.0.0.0-18.noarch.rpm

Important Note!

Release Notes:
HPE QLogic Adapters Release Notes

The Enablement Kit requires that the target environment have the libHBAAPI package installed from your OS installation media.

The Linux Enablement kit has been changed from "HP-CNA-FC-hpqlgc-Enablement-Kit" to "HPE-CNA-FC-hpeqlgc-Enablement-Kit". Upgrade from the older released Enablement kit is supported. However downgrade to earlier version "HP-CNA-FC-hpqlgc-Enablement-Kit" may not be successful and may report conflicts.

Workaround : Please uninstall the Enablement kit and install the older versions

Rewrite of same Enablement kit version on SuSE Linux Enterprise Server 15 service pack 4 has to be performed using --force --nodeps option

Example: rpm –Uvh HPE-CNA-FC-hpeqlgc-Enablement-Kit-<version>.noarch.rpm --force --nodeps

For more information please refer the Knowledge Base
at: https://www.suse.com/support/kb/doc/?id=000019640

Prerequisites

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

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

The Enablement Kit requires that the target environment have the libHBAAPI package installed from your OS installation media.

Enhancements

Updated the kit to version 6.0.0.0-18

Supported Devices and Features

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

32Gb Fibre Channel Host Bus Adapter:

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

64Gb Fibre Channel Host Bus Adapter:

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

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HPE QLogic Smart SAN Enablement Kit for Fibre Channel Host Bus Adapter for Microsoft Windows Server 2019 (x86_64)
Version: 1.0.0.1 (b) **(Optional)**
Filename: cp054363.compsig; cp054363.exe

Important Note!

The Smart SAN enablement kit will not execute when an operating system has only the inbox fibre channel driver installed. An out of box (OOB) fibre channel driver is needed to utilize Smart SAN functionality. If any OOB driver is installed, the enablement kit will pre-enable/disable Smart SAN

functionality for future use. It can then be activated once a Smart SAN enabled OOB driver is installed (see Prerequisite Notes) and after a reboot has occured.

Obtain Smart SAN User Guide for 3PAR at following link: HPE Smart SAN for 3PAR 2.0 User Guide

Prerequisites

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

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

The HPE supplied fibre channel driver must be installed prior to this enablement kit component if you want to enable Smart SAN functionality. The latest Qlogic FC driver 9.4.6.20 is available on the Service Pack for ProLiant (SPP) which is available at http://www.hpe.com/servers/spp/download/

However, if a Smart SAN enabled driver is not installed at execution time, the component will land the enablement kit files for future use after the driver has been installed.

Enhancements

Updated to version 1.0.0.1

Supported Devices and Features

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

32Gb Fibre Channel Host Bus Adapter:

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

64Gb Fibre Channel Host Bus Adapter:

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

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HPE QLogic Smart SAN Enablement Kit for Fibre Channel Host Bus Adapter for Microsoft Windows Server 2022 (x86_64)
Version: 1.0.0.1 (b) **(Optional)**
Filename: cp054362.compsig; cp054362.exe

Important Note!

The Smart SAN enablement kit will not execute when an operating system has only the inbox fibre channel driver installed. An out of box (OOB) fibre channel driver is needed to utilize Smart SAN functionality. If any OOB driver is installed, the enablement kit will pre-enable/disable Smart SAN functionality for future use. It can then be activated once a Smart SAN enabled OOB driver is installed (see Prerequisite Notes) and after a reboot has occured.

Obtain Smart SAN User Guide for 3PAR at following link: HPE Smart SAN for 3PAR 2.0 User Guide

Prerequisites

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

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

The HPE supplied fibre channel driver must be installed prior to this enablement kit component if you want to enable Smart SAN functionality. The driver is available on the HPE.com website at www.hpe.com.

- HPE Storage Fibre Channel Adapter Kit for the QLogic Storport Driver for Windows Server 2022 version 9.4.6.20, cp054361.exe

However, if a Smart SAN enabled driver is not installed at execution time, the component will land the enablement kit files for future use after the driver has been installed.

Enhancements

Updated to version 1.0.0.1

Supported Devices and Features

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

32Gb Fibre Channel Host Bus Adapter:

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

64Gb Fibre Channel Host Bus Adapter:

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

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HPE QLogic Smart SAN Enablement kit for Linux
Version: 3.3-3 (b) **(Optional)**
Filename: hpe-qlogic-smartsan-enablement-kit-3.3-3.x86_64.compsig; hpe-qlogic-smartsan-enablement-kit-3.3-3.x86_64.rpm

Important Note!

Obtain Smart SAN User Guide for 3PAR at following link: HPE Smart SAN for 3PAR 2.0 User Guide

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:http://www.hpe.com/storage/spock/

The HPE supplied fibre channel driver must be installed prior to this enablement kit component if you want to enable Smart SAN functionality. The driver is available on the HPE.com website at www.hpe.com.

- Red Hat Enterprise Linux 8 Server FC Driver Kit for HPE QLogic HBAs , version 10.02.07.00-k1.

- Red Hat Enterprise Linux 9 Server FC Driver Kit for HPE QLogic HBAs , version 10.02.07.00-k1.
- SUSE Linux Enterprise Server 15 FC Driver Kit for HPE QLogic HBAs, version 10.02.07.00-k1.

However, if a Smart SAN enabled driver is not installed at execution time, the component will land the enablement kit files for future use after the driver has been installed.

Enhancements

Updated to version 3.3-3

Supported Devices and Features

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

32Gb Fibre Channel Host Bus Adapter:

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

64Gb Fibre Channel Host Bus Adapter:

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

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Software - System Management Top

Agentless Management Service (iLO 5, iLO 6) for Red Hat Enterprise Linux 9 Server
Version: 3.3.0 **(Optional)**
Filename: amsd-3.3.0-1773.7.rhel9.x86_64.compsig; amsd-3.3.0-1773.7.rhel9.x86_64.rpm

Prerequisites

- **amsd only supported on HPE Gen10/Gen10 Plus and later Server Generations.**
- **amsd provides information to the iLO 5 and iLO 6 service providing SNMP support.**
- **Requirements:**
  - Minimum iLO 5 Firmware Version = 2.70
  - Minimum supported OS Versions = Red Hat Enterprise Linux 9
- **Requirements:**
  - Minimum iLO 6 Firmware Version = 1.10
  - Minimum supported OS Versions = Red Hat Enterprise Linux 9

Fixes

Fixed the following items:

- cpqSePCIeDiskOsName is now correctly displayed
- Removed trailing spaces in the value of cpqSePCIeDiskModel, cpqNicIfPhysAdapterPartNumber, cpqSePciSlotBoardName, cpqSePCIeDiskFwRe

Enhancements

The following enhancements are available in this release:

-
  -

- Extend cpqSePciSlotEntry, cpqSePciFunctEntry, cpaSePCleDiskEntry OIDs index for supporting PCI multi-segment function.
- Support NIC redundancy bonding function

Agentless Management Service (iLO5, iLO 6) for Red Hat Enterprise Linux 8 Server
Version: 3.3.0 **(Optional)**
Filename: amsd-3.3.0-1773.23.rhel8.x86_64.compsig; amsd-3.3.0-1773.23.rhel8.x86_64.rpm

Prerequisites

- **amsd only supported on HPE Gen10/Gen10 Plus Servers and later Server Generations.**
- **amsd provides information to the iLO 5 and iLO 6 service providing SNMP support.**
- **Requirements:**
  - Minimum iLO 5 Firmware Version = 1.10
  - Minimum supported OS Versions = Red Hat Enterprise Linux 8
- **Requirements:**
  - Minimum iLO 6 Firmware Version = 1.10
  - Minimum supported OS Versions = Red Hat Enterprise Linux 8.6

Fixes

Fixed the following items:

- cpqSePCIeDiskOsName is now correctly displayed
- Removed trailing spaces in the value of cpqSePCIeDiskModel, cpqNicIfPhysAdapterPartNumber, cpqSePciSlotBoardName, cpqSePCIeDiskFwRe

Enhancements

The following enhancements are available in this release:

-
  -
- Extend cpqSePciSlotEntry, cpqSePciFunctEntry, cpaSePCleDiskEntry OIDs index for supporting PCI multi-segment function.
- Support NIC redundancy bonding function

Agentless Management Service (iLO5, iLO 6) for SUSE Linux Enterprise Server 15
Version: 3.3.0 **(Optional)**
Filename: amsd-3.3.0-1773.7.sles15.x86_64.compsig; amsd-3.3.0-1773.7.sles15.x86_64.rpm

Prerequisites

- **amsd only supported on HPE Gen10/Gen10 Plus and later Server Generations.**
- **amsd provides information to the iLO 5 and iLO 6 service providing SNMP support.**
- **Requirements:**
  - Minimum iLO5 Firmware Version=1.10
  - Minimum supported OS Versions=SUSE Linux Enterprise Server 15
- **Requirements:**
  - Minimum iLO 6 Firmware Version = 1.10
  - Minimum supported OS Versions = SUSE Linux Enterprise Server 15 SP4

Fixes

Fixed the following items:

- cpqSePCIeDiskOsName is now correctly displayed
- Removed trailing spaces in the value of cpqSePCIeDiskModel, cpqNicIfPhysAdapterPartNumber, cpqSePciSlotBoardName, cpqSePCIeDiskFwRe

Enhancements

The following enhancements are available in this release:

  -
    -
- Extend cpqSePciSlotEntry, cpqSePciFunctEntry, cpaSePCleDiskEntry OIDs index for supporting PCI multi-segment function.
- Support NIC redundancy bonding function
- Support cpqNic information on SLES XEN Virtual interfaces

HPE Agentless Management Bundle for ESXi on Gen11
Version: 701.11.3.0 **(Recommended)**
Filename: amsdvComponent_701.11.3.0.17-1_21262907.zip

Enhancements

Agentless Management Service

- Add PCIe multi-segment platform feature support

HPE Fiber Channel and Storage Enablement Component for ESXi 7.0
Version: 3.9.0 **(Recommended)**
Filename: fc-enablement-component_700.3.9.0.4-1_20266032.zip

Enhancements

- Supports VMware ESXi 7.0 U2 and ESXi 7.0 U3

HPE Fiber Channel and Storage Enablement Component for ESXi 8.0
Version: 3.9.0 **(Recommended)**
Filename: fc-enablement-component_800.3.9.0.30-1_20300413.zip

Enhancements

Supports VMware ESXi 8.0

HPE Gen11 Agentless Management Service for Microsoft Windows x64
Version: 3.30.0.0 **(Optional)**
Filename: cp054819.compsig; cp054819.exe

Important Note!

About installation and enablement of SMA service:

- During AMS installation in interactive mode, there is pop up message to selectively install SMA.
  - If Yes is selected, SMA service will be installed and set to running state.
  - If No is selected, SMA service will be installed but the service is not enabled.
- During AMS installation in silent mode, SMA is installed but the service is not enabled.
- To enable SMA service at a later time, go to the following folder: %ProgramFiles%\OEM\AMS\Service\ (Typically c:\Program Files\OEM\AMS\Service) and execute "EnableSma.bat /f"

- IMPORTANT: The SNMP service community name and permission must also be setup. This is not done by "EnableSma.bat".
- To disable SMA after it has been enabled, go to the following folder: %ProgramFiles%\OEM\AMS\Service\ (Typically c:\Program Files\OEM\AMS\Service) and execute "DisableSma.bat /f"
- After installing Windows operating system, make sure all the latest Microsoft Updates are downloaded and installed (wuapp.exe can be launched to start the update process). If this is not done, a critical error may be reported in Windows Event Log, "The Agentless Management Service terminated unexpectedly.".

AMS Control Panel Applet:

- The AMS control panel applet UI is best displayed on the system when screen resolution is 1280 x 1024 pixels or higher and text size 100%.
- Test trap generated from AMS Control Panel Applet requires iLO6 firmware version 1.1 and newer.
- When in iLO6 high security mode (e.g. FIPS mode), MD5 authentication protocol will not be shown.

Prerequisites

The *Channel Interface Driver for Windows X64* must be installed prior to this component.

Microsoft SNMP Service must be enabled, if SMA (System Management Assistant) is enabled.

Fixes

- Fixed missing enterprise OID in SNMP trap.
- Fixed AHCI SATA drive firmware version won't synchronize after upgrading or downgrading firmware.

Enhancements

- Supported PCI multi-segment.
- Enhanced NIC physical adapter configured speed and duplex up to 100g.

HPE MegaRAID Storage Administrator for Linux 64-bit (HPE MRSA for Gen10P and Gen11 Controllers)
Version: 8.2.19.0 (C) **(Recommended)**
Filename: MRStorageAdministrator-008.002.019.000-00.x86_64.compsig; MRStorageAdministrator-008.002.019.000-00.x86_64.rpm

Prerequisites

- For SLES15 and above platforms, one of the dependent rpms - 'insserv-compat' is required during installation/uninstallation. This is needed because MRSA startup script is based on SysV/init script and insserv adds as a bridge between SysV/init script and systemctl.
- From RHEL 8+ the Desktop ICON Launching property is disabled by default. Please use either yum or DNF to install gnome-tweak-tool and Enable the Desktop Shortcut feature to launch MRSA. The chkconfig package is not present in RHEL 9 by default. This package is required to auto start MRSA service on system boot. Please install chkconfig package before installing the MRSA.

Enhancements

Support HPE ML110 and DL560 Gen11 servers

HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for Gen10P and Gen11 Controllers)

Version: 8.2.19.0 (C) **(Recommended)**
Filename: cp055453.exe; cp055453_part1.compsig; cp055453_part2.compsig

Enhancements

Support HPE ML110 and DL560 Gen11 servers

HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit (for Gen10P and Gen11 Controllers)
Version: 007.2207.0000.0000 (C) **(Optional)**
Filename: storcli-007.2207.0000.0000-1.noarch.compsig; storcli-007.2207.0000.0000-1.noarch.rpm

Enhancements

Support HPE ML110 and DL560 Gen11 servers

HPE MegaRAID Storage Administrator StorCLI for VMware 7.0 (for Gen11 Controllers)
Version: 007.2207.0000.0000 (B) **(Recommended)**
Filename: BCM-vmware-storcli64_007.2207.0000.0000-01_20701325.zip

Enhancements

Gen11 2023.02.00.00 Usage

HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers)
Version: 7.22.7.0 (C) **(Recommended)**
Filename: cp055450.compsig; cp055450.exe

Enhancements

Support HPE ML110 and DL560 Gen11 servers

Integrated Smart Update Tools for VMware ESXi 7.0
Version: 701.4.1.0 **(Recommended)**
Filename: sutComponent_701.4.1.0.8-0-signed_component-21302426.zip

Important Note!

Integrated Smart Update Tools for ESXi 7.0 provides support for firmware and driver updates via iLO Repository

Fixes

See the iSUT Release Notes for information about the issues resolved in this release

Enhancements

See the iSUT Release Notes for information about the enhancements in this release.

Integrated Smart Update Tools for VMware ESXi 8.0
Version: 800.4.1.0 **(Recommended)**
Filename: sutComponent_800.4.1.0.11-0-signed_component-21308439.zip

Important Note!

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

Fixes

See the iSUT Release Notes for information about the issues resolved in this release

Enhancements

See the iSUT Release Notes for information about the enhancements in this release.

Smart Storage Administrator (SSA) CLI for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers
Version: 6.15.11.0 (C) **(Recommended)**
Filename: ssacli-6.15-11.0.x86_64.compsig; ssacli-6.15-11.0.x86_64.rpm; ssacli-6.15-11.0.x86_64.txt

Enhancements

Support ML110 and DL560 Gen11 servers

Smart Storage Administrator (SSA) CLI for VMware 7.0
Version: 6.15.11.0 **(Recommended)**
Filename: ssacli2-component_6.15.11.0-7.0.0_20754029.zip

Enhancements

Initial Build for Vmware

Smart Storage Administrator (SSA) CLI for VMware 8.0
Version: 6.15.11.0 **(Recommended)**
Filename: ssacli2-component_6.15.11.0-8.0.0_20754055.zip

Enhancements

Gen11 2023.02.00.00 Usage

Smart Storage Administrator (SSA) CLI for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers
Version: 6.15.11.0 (C) **(Recommended)**
Filename: cp055518.compsig; cp055518.exe

Enhancements

Support ML110 and DL560 Gen11 servers

Smart Storage Administrator (SSA) for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers
Version: 6.15.11.0 (C) **(Recommended)**
Filename: ssa-6.15-11.0.x86_64.compsig; ssa-6.15-11.0.x86_64.rpm; ssa-6.15-11.0.x86_64.txt

Prerequisites

The Smart Storage Administrator for Linux requires the System Management Homepage software to be installed on the server. If the System Management Homepage software is not already installed on your server, please download it from HPE.com and install it before installing the Smart Storage Administrator for Linux.

IMPORTANT UPDATE: SSA (GUI) for Linux can now be run without requiring the System Management Homepage. SSA now supports a Local Application Mode for Linux. The System Management Homepage is still supported, but no longer required to run the SSA GUI.

To invoke, enter the following at the command prompt:

ssa -local

The command will start SSA in a new Firefox browser window. When the browser window is closed, SSA will automatically stop. This is only valid for the loopback interface, and not visible to external network connections.

Enhancements

Support ML110 and DL560 Gen11 servers

Smart Storage Administrator (SSA) for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers
Version: 6.15.11.0 (C) **(Recommended)**
Filename: cp055522.compsig; cp055522.exe

Enhancements

Support ML110 and DL560 Gen11 servers

Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers
Version: 6.15.11.0 (C) **(Recommended)**
Filename: ssaducli-6.15-11.0.x86_64.compsig; ssaducli-6.15-11.0.x86_64.rpm; ssaducli-6.15-11.0.x86_64.txt

Enhancements

Support ML110 and DL560 Gen11 servers

Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers
Version: 6.15.11.0 (C) **(Recommended)**
Filename: cp055523.compsig; cp055523.exe

Important Note!

This stand alone version of the Smart Storage Administrator's Diagnostic feature is available only in CLI form. For the GUI version of Diagnostic reports, please use Smart Storage Administrator (SSA).

Enhancements

Support ML110 and DL560 Gen11 servers