HA8000V シリーズ

Service Pack for HA8000V (SPH)

Version 4.00 30

Readme

２０１９年4月

1. はじめに

このたびは、日立アドバンストサーバ HA8000V シリーズをご利用いただき誠にありがとうございます。
ご使用になる前に、必ず本内容をご確認ください。

1.1 他社所有名称に対する表示

Microsoft は，米国 Microsoft Corporation の米国およびその他の国における登録商標または商標です。

Microsoft および Windows Server は，米国 Microsoft Corporation の米国およびその他の国における登録商標または商標です。

1.2 注意事項

(1) 本書は改良のため，予告なしに変更することがあります。

(2) Service Pack for HA8000V のご使用に当たっては、<CD ドライブ>¥EULA に格納された「エンドユーザー使用許諾契約書」をお読みください。

(3) Service Pack for HA8000V に瑕疵が無いことを保証するものではありません。

(4) Service Pack for HA8000V は、「3 適用機種及びOS」記載のプラットフォームでご使用いただけます。

(5) 天災、人災、事故等で Service Pack for HA8000V 使用中に電源が切れますとシステム装置が正常に動作しなくなることがありますので十分に気を付けてください。

(6) お客様は、Service Pack for HA8000V 並びに本書の全部又は一部を単独で又は他の情報等と組み合わせ、直接又は間接に以下に該当する取扱いをする場合、「外国為替及び外交貿易」の規制及び米国輸出管理規制等外国の輸出関連法規を確認し、適正な手続きを行う必要があります。

- 輸出するとき。
- 海外へ持ち出すとき。
- 非居住者へ提供し、又は使用させるとき。
- 上記に定めるほか、「外国為替及び外国貿易法」又は外国の輸出関連法規に定めがあるとき。

本ファイルに含まれている、いかなるファイルの内容の全部またはその一部を、無断で掲載またはコピーすることを固く禁じます。

1.3 変更履歴

発行日	変更内容
２０１８年７月	初版
２０１８年７月	適用OS/サポートデバイス追加，誤記訂正
２０１８年８月	Vmware 使用時の注意事項追記
２０１９年４月	5.8 追記

2．Service Pack for HA8000V（ＳＰＨ)について

Service Pack for HA8000V(以降 SPH と呼びます)は、１台または複数台の HA8000V サーバのファームウェア/
システムソフトウェアの更新を簡素化するソリューションです。

SPH には、サーバ/コントローラ/ストレージのファームウェア/ドライバ/ユーティリティパッケージが含ま
れます。また、SPH に収録されている Smart Update Manager(以降 SUM と呼びます)は、更新されたファー
ムウェアおよびシステムソフトウェアをデプロイする推奨ツールです。

SPH/SUM を使うことで、ファームウェアおよびシステムソフトウェアのオンラインアップデートが可能と
なります。アップデート操作を SUM に統合することにより、個々の HA8000V サーバのアップデートが迅
速になり、システム全体のアップデート時間を短縮することができます。

SPH は定期的にリリースされます。最新版の SPH を使用して更新することを推奨します。

3．適用機種及びＯＳ

3.1　適用機種

- HA8000V/DL360 Gen10
- HA8000V/DL380 Gen10
- HA8000V/DL580 Gen10
- HA8000V/ML350 Gen10

3.2　適用 OS

- Microsoft(R) Windows Server(R) 2016
- Microsoft(R) Windows Server(R) 2012 R2
- Red Hat(R) Enterprise Linux(R) Server 7.5
- Red Hat(R) Enterprise Linux(R) Server 7.4
- Red Hat(R) Enterprise Linux(R) Server 6.9

4. 変更内容

本章では、今回のリリースの変更内容を記載しています。

4.1 新規サポート内容

- 追加サポートデバイス
  - ➢ HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter
  - ➢ HPE Ethernet 25Gb 2-port 640SFP28 Adapter
  - ➢ HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter

4.2 更新内容

『6.3 パッケージの変更内容』を参照ください。

5. 注意事項

本章では、SPH をご使用になる上で、注意頂く内容を記載しています。

5.1 ドライバ・ユーティリティなどの適用について

最新のドライバ・ファームウェア・ユーティリティなどを、「日立アドバンスドサーバ HA8000V シリーズ ホームページ」で提供しております。(http://www.hitachi.co.jp/products/it/ha8000v/download/index.html)

各アップデートプログラムの適用についてはお客様責任にて実施していただきますが、システム装置を安定してご使用いただくためにも、ホームページの[サポート]ー[ダウンロード] に定期的にアクセスして、最新のドライバ・ファームウェア・ユーティリティへ更新していただくことをお勧めします。

5.2 SUM によるアップデート時の注意事項

アップデート対象のファームウェア/ドライバには依存関係を持つ場合があり、一度の SUM の実行では全て更新できない場合があります。このため、SUM アップデート後、全ての更新対象がアップデートされているかを確認してください。もし、アップデートされていないパッケージがある場合、再度 SUM を実行してください。全てアップデートされたかは、次の手順により確認できます。

GUI の場合：
　SUM を起動し、「展開サマリー」画面にて、「推奨されたコンポーネント」数表示が、"0"となっていることを確認してください。

CLI の場合：
　"Inventory"までの手順を実行後"getneededupdates"を実行し、"Component"セクションが表示されないことを確認してください。

5.3 SUM でのランゲージパックバージョン表示と適用に関する制限事項

SUM(Smart Update Manager)で表示される、適用中のランゲージパックのバージョンが正しく表示されない場合があります。正しいバージョンを確認するためには、iLO WEB インタフェースの[管理]＞[言語]ペー

ジより現在適用中の言語パックのバージョンをご確認下さい。

　また、上記確認の結果、目的のバージョンのランゲージパックが適用済みであっても、SUM 実行後の「展開サマリー」画面で、ランゲージパックが適用対象として自動的に選択されている場合があります。この場合、ランゲージパックの適用は不要ですので、選択を解除してから展開ボタンをクリックをしてください。

　【注意】
　　　本制限のため、5.2 に示す確認手順で、ランゲージパックが適用対象として残る場合があります。

5.4　ASR(Automatic Server Recovery)について

　ASR(Automatic Server Recovery)はブルースクリーン等の致命的な OS のエラーが発生したときに自動的にシステムの復旧をするべくサーバーの再起動をおこなう機能です。IP(version 3.10 以降)を使った OS のインストール又は SPH(version 3.00 以降)の適用、その他の方法による ASR ドライバーのインストールにより ASR が自動的に有効になります。ASR が不要な場合や Alive Monitor、IPMI WDT 等の他の OS 死活監視を使う場合は ASR を無効化してください。

5.4.1　ASR 操作用の PowerShell スクリプトの入手について

　ASR の有効/無効の確認並びに切り替えは ASR ドライバーのパッケージに同梱されている PowerShell スクリプトを使って行います。下記を参照して PowerShell スクリプトを入手してください。

(1) ASR ドライバーのパッケージを展開します
　　SPH の packages ディレクトリ下にあるファイル群の中から、下表記載の各 OS に対応した Filename のファイルを実行してください。パッケージセットアップが起動するので解凍を選択し、任意のディレクトリにパッケージを展開してください。

Description	Version	Filename
iLO 5 Automatic Server Recovery Driver for Windows Server	4.2.0.0(B)	cp034069.exe
iLO 5 Automatic Server Recovery Driver for Windows Server 2012 R2	4.2.0.0(B)	cp034068.exe

(2) PowerShell スクリプトを確認してください
　　展開したパッケージの中に下記の 2 つの PowerShell スクリプトが含まれている事を確認してください。
　　必要に応じて任意のディレクトリにコピーしてください。

```
Get-AsrTimeout.ps1
Set-AsrTimeout.ps1
```

5.4.2　ASR の確認方法

　Windows の PowerShell より Get-AsrTimeout.ps1 を実行してください。TimeoutInMinutes が 0 又は、コマン

ドの実行がエラーとなった場合 ASR は無効になっています。

```
実行例その 1(TimeoutInMinutes が 0 の場合)
PS C:¥Users¥Administrator¥Desktop> .¥Get-AsrTimeout.ps1


Active InstanceName                                                TimeoutInMinutes
PSComputerName
------ ------------                                                 ----------------
--------------
  True PCI¥VEN_103C&DEV_3306&SUBSYS_00E41590&REV_07¥4&154b2d14&0&00E4_0                0


実行例その 2(コマンドの実行がエラーとなる場合)
PS C:¥Users¥Administrator¥Desktop> .¥Get-AsrTimeout.ps1
Get-CimInstance : 無効なクラスです
発生場所 C:¥Users¥Administrator¥Desktop¥Get-AsrTimeout.ps1:25 文字:1
+ Get-CimInstance -Namespace "root¥wmi" -ClassName "HP_iLO_ASR_Settings ...
+ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
    + CategoryInfo          : MetadataError: (root¥wmi:HP_iLO_ASR_Settings:String)
[Get-CimInstance], CimException
    + FullyQualifiedErrorId : HRESULT
0x80041010,Microsoft.Management.Infrastructure.CimCmdlets.GetCimInstanc
eCommand
```

5.4.3 ASR の無効化方法

Windows の PowerShell より下記のオプションで Set-AsrTimeout.ps1 を実行してください。

```
Set-AsrTimeout.ps1 -Disable
```

```
実行例
PS C:¥Users¥Administrator¥Desktop> .¥Set-AsrTimeout.ps1 -Disable
```

5.4.4 ASR の有効化方法

Windows の PowerShell より下記のオプションで Set-AsrTimeout.ps1 を実行してください。

```
Set-AsrTimeout.ps1 -Default
```

```
実行例
PS C:¥Users¥Administrator¥Desktop> .¥Set-AsrTimeout.ps1 -Default
```

5.5 ドライバアップデート時の注意事項

　ネットワークアダプタドライバをアップデートした場合、ドライバアップデート後、設定値が初期化される場合があります。ドライバアップデート前に設定値を控え、アップデート後に再設定してください。

5.6 Linux 環境で TPM を有効にしている場合の注意事項

　Linux 環境で Trusted Platform Module(TPM)を有効にしている場合、下記のエラーと共にランゲージパック

のアップデートに失敗します。

```
ERROR: Conflicting command line options [--silent requires --tpmbypass option
(Trusted Platform Module is present on this system)]
```

　本問題を回避するには、Linux でのランゲージパックのアップデートには SUM を使用せず、アップデートファイルを直接実行します。
　アップデートファイルは SPH の packages ディレクトリにある "firmware-lpk-ilo-1.30-1.1.x86_64.rpm" です。実行手順は次に示します。

(1) rpm コマンドでアップデートファイルを展開します。
```
# rpm -ivh firmware-lpk-ilo-1.30-1.1.x86_64.rpm
```

(2) cd コマンドでアップデートファイルの展開先に移動します。
```
# cd /usr/lib/x86_64-linux-gnu/firmware-lpk-ilo-1.30-1.1/
```

(3) setup コマンドでアップデートを実行します。
```
# ./setup
```

```
CAUTION: A Trusted Platform Module (TPM) has been detected in this system.
Failure to perform proper OS encryption procedures will result in loss of
access to your data if recovery key is not available. Recommended procedure
for Microsoft Windows(R) BitLocker(TM) is to "suspend" BitLocker prior to
System ROM or Option ROM firmware flash. If you do not have your recovery key
or have not suspended BitLocker, exit this flash: Failure to follow these
instructions will result in loss of access to your data.
Continue (y/N)?y

FLASH_iLO5 v3.04 for Linux (Apr 11 2018)
Firmware image: lang_ja_130_p10.lpk
Language pack update:CP035841.xml reports language pack version 1.30

Server is in Production State;
This operation will update the language pack on the
iLO 5 in this server with version 1.30.
Continue (y/N)?y
Current firmware is  1.30 (May 31 2018 00:00:00)
Firmware image is 0x73afc(473852) bytes
Committing to flash part...
******** DO NOT INTERRUPT! ********
Flashing is underway... 100 percent programmed. -
```

```
Succeeded.
***** iLO 5 reboot in progress (may take more than 60 seconds.)
***** Please ignore console messages, if any.
iLO 5 reboot completed.
```

5.7 Vmware をご使用にあたっての注意事項

システム装置を安定してご使用いただくためには、ご使用の VMware バージョンに合わせたファームウェアを適用頂く必要があります。

VMware 環境でのファームウェアの適用にあたっては、SUM のオフライン 展開モードをご使用ください。本 SPH は、VMware 稼働中のオンラインファームウェアアップデートには対応しておりません。

なお、各 VMware バージョンと SPH サポート情報の詳細は、「日立アドバンスドサーバ HA8000V シリーズ ホームページ」(http://www.hitachi.co.jp/products/it/ha8000v/download/index.html)の[製品]－[OS、ISV 情報]にある『VMware』に掲載している注意事項をご参照の上、推奨ドライババージョンをご確認ください。

5.8 RHEL7.4 または RHEL7.5 環境での Intel 製ネットワークアダプタご使用について

Intel 製ネットワークアダプタのファームウェアは、特定バージョン以降、ダウングレードできない制約があります。

下表のファームウェアバージョン(SPH5.00 収録)以降が適用されている環境において、RHEL7.4 または、RHEL7.5 でネットワークアダプタをご使用になる場合、下表のファームウェアバージョンのまま、(a)(b)に示すドライバの組み合わせてご使用ください。

(a)RHEL7.4：SPH4.60 収録ドライバ
(b)RHEL7.5：OS 標準ドライバ または、SPH5.00 収録ドライバ(※)

※：RHEL7.5 環境でご使用の場合は、SPH5.00 収録ドライバへアップデートを推奨します。

形名(*1)	製品名	ファームウェアバージョン
TQ-N□□-817745-B21 TQ-N□□-817738-B21	Ethernet 10Gb 2 ポート 562FLR-T ネットワークアダプター Ethernet 10Gb 2 ポート 562T ネットワークアダプター	10.4.4
TQ-N□□-727054-B21 TQ-N□□-727055-B21	Ethernet 10Gb 2 ポート 562FLR-SFP+ ネットワークアダプター Ethernet 10Gb 2 ポート 562SFP+ ネットワークアダプター	10.4.3

(*1)：□には製品構成などにより異なった英数字が入ります。

6．ＳＰＨ収録コンテンツ一覧

SPH の iso イメージに含まれるドライバ，ファームウェア，ユーティリティ(ソフトウェア)を示します。
SPH には、適用方法により下記の２種のコンテンツを含んでいます。

- OS セットアップ後、お客様自身で個別に適用頂くもの
- Smart Update Manager(SUM)を使って適用可能なもの

以降、それぞれのコンテンツについて説明します。

6.1　お客様により適用が必要なコンテンツ

次表に示すファイルは、SPH に含まれる SUM ツールでの適用対象ではありません。Windows Server OS の新規・再セットアップ(プレインストールセット除く)の場合は、SPH 適用後に各ツールを実行してください。

No.	ツール	説　明	iso 内格納場所	備　考
1	IT Report Utility (ITRU)	サーバの構成情報、および障害の情報を採取します	¥software¥Hitachi¥ITRU	
2	2PRxDur settings	(レジストリ設定)ネットワークアダプタに関する設定を実施します	¥software¥Hitachi¥RegTool	Broadcom 製 1Gb LAN アダプタ搭載構成のみ対象
3	LargeRxRing settings	(レジストリ設定)ネットワークアダプタに関する設定を実施します	¥software¥Hitachi¥RegTool	

【Broadcom 製 1Gb LAN アダプタ】

- オンボード LAN(Ethernet 1Gb 4-port 331i Adapter)
- HP Ethernet 1Gb 4-port 331FLR Adapter
- HP Ethernet 1Gb 4-port 331T Adapter
- HP Ethernet 1Gb 2-port 332T Adapter

⑴ ITRU のインストール

　ITRU をインストールするには、Administrator 権限にて DOS プロンプトより下記のバッチファイルを実行してください。

　　　<CD ドライブ>:¥software¥Hitachi¥ITRU¥setup.bat

　なお、ITRU のインストールに関する詳細情報は次の WEB ページ
　　http://www.hitachi.co.jp/cgi-bin/soft/sjst/select_open.cgi
　に掲載されている Windows 版 ITRU 取扱説明書の 3 章をご確認願います。

⑵ ネットワークアダプタ レジストリ設定の適用

　ネットワークアダプタ レジストリ設定を適用するたには、Administrator 権限にて DOS プロンプトより下記のバッチファイルを実行してください。

　　　<CD ドライブ>:¥software¥Hitachi¥RegTool¥2PRxDur.bat
　　　< CD ドライブ>:¥software¥Hitachi¥RegTool¥LargeRxRing.bat

　ツール実行後、OS を再起動してください。

6.2 SUM ツールで適用可能なファイル

　次に示すドライバ/ファームウェア/ユーティリティ(ソフトウェア)は、SUM ツールにより適用可能なファイルです。SPH を使ってアップデート作業を行うには、SPH 内のデータをローカルドライブにコピーし、SUM を実行してください。SUM の GUI モードで使用する場合、OS 別の実行するコマンドを下記に示します。(管理者権限で実行してください。)

　　　　Windows 環境：
　　　　　　　　.¥launch_sum.bat
　　　　Linux 環境：
　　　　　　　　./launch_sum.sh

　なお、SUM の詳細な操作方法は、<u>http://www.hitachi.co.jp/ha8000v/</u>に掲載されている『Smart Update Manager　ユーザーガイド』を参照ください。

Category 一覧
- BIOS - System ROM
- Driver – Chipset
- Driver – Network
- Driver – Storage
- Driver - Storage Controller
- Driver - Storage Fibre Channel and Fibre Channel over Ethernet
- Driver - System Management
- Driver – Video
- Firmware - Lights-Out Management
- Firmware – Network
- Firmware - Power Management
- Firmware - SAS Storage Disk
- Firmware - SATA Storage Disk
- Firmware - Storage Controller
- Firmware - Storage Fibre Channel
- Firmware – System
- Software - Lights-Out Management
- Software - Storage Controller
- Software - Storage Fibre Channel HBA
- Software - System Management

6.2.1 BIOS - System ROM

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
1	Online ROM Flash Component for Linux - OEM System ROM U34	firmware-system-oem-u34-1.40_2018_06_15-1.1.x86_64.rpm	System BIOS - U34	1.40_06-15-2018	v1.40 (06/15/2018)	更新
2	Online ROM Flash Component for Linux - System ROM U30	firmware-system-oem-u30-1.40_2018_06_15-1.1.x86_64.rpm	System BIOS - U30	1.40_06-15-2018	v1.40 (06/15/2018)	更新
3	Online ROM Flash Component for Linux - System ROM U32	firmware-system-oem-u32-1.40_2018_06_15-1.1.x86_64.rpm	System BIOS - U32	1.40_06-15-2018	v1.40 (06/15/2018)	更新
4	Online ROM Flash Component for Linux - System ROM U41	firmware-system-oem-u41-1.40_2018_06_15-1.1.x86_64.rpm	System BIOS - U41	1.40_06-15-2018	v1.40 (06/15/2018)	更新
5	Online ROM Flash Component for Windows x64 - OEM System ROM U34	cp034640.exe	System BIOS - U34	1.40_06-15-2018	v1.40 (06/15/2018)	更新
6	Online ROM Flash Component for Windows x64 - System ROM U30	cp034572.exe	System BIOS - U30	1.40_06-15-2018	v1.40 (06/15/2018)	更新
7	Online ROM Flash Component for Windows x64 - System ROM U32	cp034575.exe	System BIOS - U32	1.40_06-15-2018	v1.40 (06/15/2018)	更新
8	Online ROM Flash Component for Windows x64 - System ROM U41	cp034592.exe	System BIOS - U41	1.40_06-15-2018	v1.40 (06/15/2018)	更新

6.2.2 Driver – Chipset

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
9	Identifiers for Intel Xeon Processor Scalable Family for Windows Server 2012 R2 and Server 2016	cp034634.exe	-	10.1.2.86 (B)	10.1.2.86 (B)	更新

6.2.3 Driver – Network

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
10	HPE Broadcom NX1 1Gb Driver for Windows Server x64 Editions	cp034731.exe	HP Ethernet 1Gb 2-port 332T Adapter	212.0.0.0	212.0.0.0	更新
11	HPE Broadcom NX1 1Gb Driver for Windows Server x64 Editions	cp034731.exe	HP Ethernet 1Gb 4-port 331FLR Adapter	212.0.0.0	212.0.0.0	更新
12	HPE Broadcom NX1 1Gb Driver for Windows Server x64 Editions	cp034731.exe	HP Ethernet 1Gb 4-port 331i Adapter (22BE)	212.0.0.0	212.0.0.0	更新
13	HPE Broadcom NX1 1Gb Driver for Windows Server x64 Editions	cp034731.exe	HP Ethernet 1Gb 4-port 331T Adapter	212.0.0.0	212.0.0.0	更新
14	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-tg3-3.137w-1.rhel6u9.x86_64.rpm	HP Ethernet 1Gb 2-port 332T Adapter	3.137w-1	3.137w-1	更新
15	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-tg3-3.137w-1.rhel6u9.x86_64.rpm	HP Ethernet 1Gb 4-port 331FLR Adapter	3.137w-1	3.137w-1	更新
16	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-tg3-3.137w-1.rhel6u9.x86_64.rpm	HP Ethernet 1Gb 4-port 331i Adapter (22BE)	3.137w-1	3.137w-1	更新
17	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise	kmod-tg3-3.137w-1.rhel6u9.x86_64.rpm	HP Ethernet 1Gb 4-port 331T	3.137w-1	3.137w-1	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
	Linux 6 x86_64		Adapter			
18	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.137w-1.rhel7u4.x86_64.rpm	HP Ethernet 1Gb 2-port 332T Adapter	3.137w-1	3.137w-1	更新
19	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.137w-1.rhel7u4.x86_64.rpm	HP Ethernet 1Gb 4-port 331FLR Adapter	3.137w-1	3.137w-1	更新
20	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.137w-1.rhel7u4.x86_64.rpm	HP Ethernet 1Gb 4-port 331i Adapter (22BE)	3.137w-1	3.137w-1	更新
21	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.137w-1.rhel7u4.x86_64.rpm	HP Ethernet 1Gb 4-port 331T Adapter	3.137w-1	3.137w-1	更新
22	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.137w-1.rhel7u5.x86_64.rpm	HP Ethernet 1Gb 2-port 332T Adapter	3.137w-1	3.137w-1	新規追加
23	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.137w-1.rhel7u5.x86_64.rpm	HP Ethernet 1Gb 4-port 331FLR Adapter	3.137w-1	3.137w-1	新規追加
24	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.137w-1.rhel7u5.x86_64.rpm	HP Ethernet 1Gb 4-port 331i Adapter (22BE)	3.137w-1	3.137w-1	新規追加
25	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.137w-1.rhel7u5.x86_64.rpm	HP Ethernet 1Gb 4-port 331T Adapter	3.137w-1	3.137w-1	新規追加
26	HPE Intel E1R Driver for Windows Server 2016	cp031179.exe	HP Ethernet 1Gb 2-port 361T Adapter	12.15.184.0 (B)	12.15.184.0 (B)	
27	HPE Intel E1R Driver for Windows Server 2016	cp031179.exe	HP Ethernet 1Gb 4-port 366FLR Adapter	12.15.184.0 (B)	12.15.184.0 (B)	
28	HPE Intel E1R Driver for Windows Server 2016	cp031179.exe	HP Ethernet 1Gb 4-port 366T Adapter	12.15.184.0 (B)	12.15.184.0 (B)	
29	HPE Intel i40e Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-hp-i40e-2.4.6.1-4.rhel6u9.x86_64.rpm	HPE Ethernet 1Gb 4-port 369i Adapter	2.4.6.1-4	2.4.6.1-4	更新
30	HPE Intel i40e Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-hp-i40e-2.4.6.1-4.rhel6u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	2.4.6.1-4	2.4.6.1-4	更新
31	HPE Intel i40e Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-hp-i40e-2.4.6.1-4.rhel6u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	2.4.6.1-4	2.4.6.1-4	更新
32	HPE Intel i40e Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40e-2.4.6.1-4.rhel7u4.x86_64.rpm	HPE Ethernet 1Gb 4-port 369i Adapter	2.4.6.1-4	2.4.6.1-4	更新
33	HPE Intel i40e Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40e-2.4.6.1-4.rhel7u4.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	2.4.6.1-4	2.4.6.1-4	更新
34	HPE Intel i40e Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40e-2.4.6.1-4.rhel7u4.x86_64.rpm	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	2.4.6.1-4	2.4.6.1-4	更新
35	HPE Intel i40ea Driver for Windows Server 2012 R2	cp034517.exe	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	1.8.94.0	1.8.94.0	更新
36	HPE Intel i40ea Driver for Windows Server 2012 R2	cp034517.exe	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	1.8.94.0	1.8.94.0	更新
37	HPE Intel i40ea Driver for Windows Server 2016	cp034518.exe	HPE Ethernet 10Gb 2-port 562FLR-SFP+	1.8.94.0	1.8.94.0	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
			Adapter			
38	HPE Intel i40ea Driver for Windows Server 2016	cp034518.exe	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	1.8.94.0	1.8.94.0	更新
39	HPE Intel i40eb Driver for Windows Server 2012 R2	cp034519.exe	HPE Ethernet 1Gb 4-port 369i Adapter	1.8.94.0	1.8.94.0	更新
40	HPE Intel i40eb Driver for Windows Server 2016	cp034520.exe	HPE Ethernet 1Gb 4-port 369i Adapter	1.8.94.0	1.8.94.0	更新
41	HPE Intel i40evf Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-hp-i40evf-3.5.6.1-5.rhel6u9.x86_64.rpm	HPE Ethernet 1Gb 4-port 369i Adapter	3.5.6.1-5	3.5.6.1-5	更新
42	HPE Intel i40evf Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-hp-i40evf-3.5.6.1-5.rhel6u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	3.5.6.1-5	3.5.6.1-5	更新
43	HPE Intel i40evf Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-hp-i40evf-3.5.6.1-5.rhel6u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	3.5.6.1-5	3.5.6.1-5	更新
44	HPE Intel i40evf Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40evf-3.5.6.1-5.rhel7u4.x86_64.rpm	HPE Ethernet 1Gb 4-port 369i Adapter	3.5.6.1-5	3.5.6.1-5	更新
45	HPE Intel i40evf Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40evf-3.5.6.1-5.rhel7u4.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	3.5.6.1-5	3.5.6.1-5	更新
46	HPE Intel i40evf Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40evf-3.5.6.1-5.rhel7u4.x86_64.rpm	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	3.5.6.1-5	3.5.6.1-5	更新
47	HPE Intel igb Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-hp-igb-5.3.5.15-4.rhel6u9.x86_64.rpm	HP Ethernet 1Gb 2-port 361T Adapter	5.3.5.15-4	5.3.5.15-4	更新
48	HPE Intel igb Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-hp-igb-5.3.5.15-4.rhel6u9.x86_64.rpm	HP Ethernet 1Gb 4-port 366FLR Adapter	5.3.5.15-4	5.3.5.15-4	更新
49	HPE Intel igb Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-hp-igb-5.3.5.15-4.rhel6u9.x86_64.rpm	HP Ethernet 1Gb 4-port 366T Adapter	5.3.5.15-4	5.3.5.15-4	更新
50	HPE Intel igb Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-igb-5.3.5.15-4.rhel7u4.x86_64.rpm	HP Ethernet 1Gb 2-port 361T Adapter	5.3.5.15-4	5.3.5.15-4	更新
51	HPE Intel igb Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-igb-5.3.5.15-4.rhel7u4.x86_64.rpm	HP Ethernet 1Gb 4-port 366FLR Adapter	5.3.5.15-4	5.3.5.15-4	更新
52	HPE Intel igb Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-igb-5.3.5.15-4.rhel7u4.x86_64.rpm	HP Ethernet 1Gb 4-port 366T Adapter	5.3.5.15-4	5.3.5.15-4	更新
53	HPE Intel ixgbe Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-hp-ixgbe-5.3.5.1-5.rhel6u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	5.3.5.1-5	5.3.5.1-5	更新
54	HPE Intel ixgbe Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-hp-ixgbe-5.3.5.1-5.rhel6u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 562T Adapter	5.3.5.1-5	5.3.5.1-5	更新
55	HPE Intel ixgbe Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-ixgbe-5.3.5.1-5.rhel7u4.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	5.3.5.1-5	5.3.5.1-5	更新
56	HPE Intel ixgbe Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-ixgbe-5.3.5.1-5.rhel7u4.x86_64.rpm	HPE Ethernet 10Gb 2-port 562T Adapter	5.3.5.1-5	5.3.5.1-5	更新
57	HPE Intel ixgbevf Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-hp-ixgbevf-4.3.3.1-5.rhel6u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	4.3.3.1-5	4.3.3.1-5	更新
58	HPE Intel ixgbevf Drivers for	kmod-hp-ixgbevf-4.3.3.	HPE Ethernet	4.3.3.1-5	4.3.3.1-5	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
	Red Hat Enterprise Linux 6 x86_64	1-5.rhel6u9.x86_64.rpm	10Gb 2-port 562T Adapter			
59	HPE Intel ixgbevf Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-ixgbevf-4.3.3.1-5.rhel7u4.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	4.3.3.1-5	4.3.3.1-5	更新
60	HPE Intel ixgbevf Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-ixgbevf-4.3.3.1-5.rhel7u4.x86_64.rpm	HPE Ethernet 10Gb 2-port 562T Adapter	4.3.3.1-5	4.3.3.1-5	更新
61	HPE Intel ixs Driver for Windows Server 2012 R2	cp033709.exe	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	3.14.75.0	3.14.75.0	
62	HPE Intel ixs Driver for Windows Server 2012 R2	cp033709.exe	HPE Ethernet 10Gb 2-port 562T Adapter	3.14.75.0	3.14.75.0	
63	HPE Intel ixs Driver for Windows Server 2016	cp033710.exe	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	4.1.74.0	4.1.74.0	
64	HPE Intel ixs Driver for Windows Server 2016	cp033710.exe	HPE Ethernet 10Gb 2-port 562T Adapter	4.1.74.0	4.1.74.0	
65	HPE Intel v40e Driver for Windows Server 2012 R2	cp034522.exe	-	1.5.76.0	1.5.76.0	更新
66	HPE Intel v40e Driver for Windows Server 2016	cp034523.exe	-	1.5.76.0	1.5.76.0	更新
67	HPE Intel vxn Driver for Windows Server 2012 R2	cp032568.exe	-	1.0.16.1	1.0.16.1	
68	HPE Intel vxn Driver for Windows Server 2016	cp034732.exe	-	2.0.210.0 (B)	2.0.210.0 (B)	更新
69	HPE Mellanox CX4LX and CX5 Driver for Windows Server 2012 R2	cp034468.exe	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	1.90.19216.0	1.90.19216.0	新規追加
70	HPE Mellanox CX4LX and CX5 Driver for Windows Server 2012 R2	cp034468.exe	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	1.90.19216.0	1.90.19216.0	新規追加
71	HPE Mellanox CX4LX and CX5 Driver for Windows Server 2012 R2	cp034468.exe	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	1.90.19216.0	1.90.19216.0	新規追加
72	HPE Mellanox CX4LX and CX5 Driver for Windows Server 2016	cp034469.exe	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	1.90.19216.0	1.90.19216.0	新規追加
73	HPE Mellanox CX4LX and CX5 Driver for Windows Server 2016	cp034469.exe	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	1.90.19216.0	1.90.19216.0	新規追加
74	HPE Mellanox CX4LX and CX5 Driver for Windows Server 2016	cp034469.exe	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	1.90.19216.0	1.90.19216.0	新規追加
75	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Red Hat Enterprise Linux 6 Update 9 (x86_64)	kmod-mlnx-ofa_kernel-4.3-OFED.4.3.1.0.1.1.g8509e41.rhel6u9.x86_64.rpm	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	4.3	4.3	更新
76	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Red Hat Enterprise Linux 6 Update 9 (x86_64)	kmod-mlnx-ofa_kernel-4.3-OFED.4.3.1.0.1.1.g8509e41.rhel6u9.x86_64.rpm	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	4.3	4.3	更新
77	HPE Mellanox RoCE (RDMA	kmod-mlnx-ofa_kernel-	HPE Ethernet	4.3	4.3	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
	over Converged Ethernet) Driver for Red Hat Enterprise Linux 6 Update 9 (x86_64)	4.3-OFED.4.3.1.0.1.1.g8509e41.rhel6u9.x86_64.rpm	25Gb 2-port 640SFP28 Adapter			
78	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Red Hat Enterprise Linux 6 Update 9 (x86_64)	mlnx-ofa_kernel-4.3-OFED.4.3.1.0.1.1.g8509e41.3.rhel6u9.x86_64.rpm	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	4.3	4.3	新規追加
79	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Red Hat Enterprise Linux 6 Update 9 (x86_64)	mlnx-ofa_kernel-4.3-OFED.4.3.1.0.1.1.g8509e41.3.rhel6u9.x86_64.rpm	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	4.3	4.3	新規追加
80	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Red Hat Enterprise Linux 6 Update 9 (x86_64)	mlnx-ofa_kernel-4.3-OFED.4.3.1.0.1.1.g8509e41.3.rhel6u9.x86_64.rpm	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	4.3	4.3	新規追加
81	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Red Hat Enterprise Linux 7 Update 4 (x86_64)	kmod-mlnx-ofa_kernel-4.3-OFED.4.3.1.0.1.1.g8509e41.rhel7u4.x86_64.rpm	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	4.3	4.3	更新
82	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Red Hat Enterprise Linux 7 Update 4 (x86_64)	kmod-mlnx-ofa_kernel-4.3-OFED.4.3.1.0.1.1.g8509e41.rhel7u4.x86_64.rpm	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	4.3	4.3	更新
83	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Red Hat Enterprise Linux 7 Update 4 (x86_64)	kmod-mlnx-ofa_kernel-4.3-OFED.4.3.1.0.1.1.g8509e41.rhel7u4.x86_64.rpm	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	4.3	4.3	更新
84	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Red Hat Enterprise Linux 7 Update 4 (x86_64)	mlnx-ofa_kernel-4.3-OFED.4.3.1.0.1.1.g8509e41.3.rhel7u4.x86_64.rpm	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	4.3	4.3	新規追加
85	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Red Hat Enterprise Linux 7 Update 4 (x86_64)	mlnx-ofa_kernel-4.3-OFED.4.3.1.0.1.1.g8509e41.3.rhel7u4.x86_64.rpm	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	4.3	4.3	新規追加
86	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Red Hat Enterprise Linux 7 Update 4 (x86_64)	mlnx-ofa_kernel-4.3-OFED.4.3.1.0.1.1.g8509e41.3.rhel7u4.x86_64.rpm	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	4.3	4.3	新規追加
87	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-netxtreme2-7.14.46-1.rhel6u9.x86_64.rpm	HP Ethernet 10Gb 2-port 530SFP+ Adapter	7.14.46-1	7.14.46-1	更新
88	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-netxtreme2-7.14.46-1.rhel6u9.x86_64.rpm	HP Ethernet 10Gb 2-port 530T Adapter	7.14.46-1	7.14.46-1	更新
89	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-netxtreme2-7.14.46-1.rhel6u9.x86_64.rpm	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	7.14.46-1	7.14.46-1	更新
90	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-netxtreme2-7.14.46-1.rhel7u4.x86_64.rpm	HP Ethernet 10Gb 2-port 530SFP+ Adapter	7.14.46-1	7.14.46-1	更新
91	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-netxtreme2-7.14.46-1.rhel7u4.x86_64.rpm	HP Ethernet 10Gb 2-port 530T Adapter	7.14.46-1	7.14.46-1	更新
92	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-netxtreme2-7.14.46-1.rhel7u4.x86_64.rpm	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	7.14.46-1	7.14.46-1	更新
93	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-netxtreme2-7.14.46-1.rhel7u5.x86_64.rpm	HP Ethernet 10Gb 2-port 530SFP+ Adapter	7.14.46-1	7.14.46-1	新規追加
94	HPE QLogic NX2 10/20 GbE	kmod-netxtreme2-7.14.	HP Ethernet 10Gb	7.14.46-1	7.14.46-1	新規追加

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
	Multifunction Drivers for Red Hat Enterprise Linux 7 x86_64	46-1.rhel7u5.x86_64.rpm	2-port 530T Adapter			
95	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-netxtreme2-7.14.46-1.rhel7u5.x86_64.rpm	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	7.14.46-1	7.14.46-1	新規追加
96	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Windows Server x64 Editions	cp034362.exe	HP Ethernet 10Gb 2-port 530SFP+ Adapter	7.13.145.0	7.13.145.0	更新
97	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Windows Server x64 Editions	cp034362.exe	HP Ethernet 10Gb 2-port 530T Adapter	7.13.145.0	7.13.145.0	更新
98	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Windows Server x64 Editions	cp034362.exe	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	7.13.145.0	7.13.145.0	更新

6.2.4　Driver – Storage

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
99	HPE Smart Array S100i SR Gen10 SW RAID Driver for Windows Server 2012 R2 and Windows Server 2016	cp035068.exe	-	62.2.20.64 (A)	62.2.20.64 (A)	更新

6.2.5　Driver – Storage Controller

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
100	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 6 (64-bit)	kmod-smartpqi-1.1.4-125.rhel6u9.x86_64.rpm	HPE Smart Array P408i-a SR Gen10 Controller	1.1.4-125	1.1.4-125	更新
101	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 6 (64-bit)	kmod-smartpqi-1.1.4-125.rhel6u9.x86_64.rpm	HPE Smart Array P408i-p SR Gen10 Controller	1.1.4-125	1.1.4-125	更新
102	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 6 (64-bit)	kmod-smartpqi-1.1.4-125.rhel6u9.x86_64.rpm	HPE Smart Array P816i-a SR Gen10 Controller	1.1.4-125	1.1.4-125	更新
103	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 6 (64-bit)	kmod-smartpqi-1.1.4-125.rhel6u9.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	1.1.4-125	1.1.4-125	更新
104	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 6 (64-bit)	kmod-smartpqi-1.1.4-125.rhel6u9.x86_64.rpm	HPE Smart Array E208i-a SR Gen10 Controller	1.1.4-125	1.1.4-125	更新
105	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 6 (64-bit)	kmod-smartpqi-1.1.4-125.rhel6u9.x86_64.rpm	HPE Smart Array E208i-p SR Gen10 Controller	1.1.4-125	1.1.4-125	更新
106	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.1.4-125.rhel7u4.x86_64.rpm	HPE Smart Array P408i-a SR Gen10 Controller	1.1.4-125 (A)	1.1.4-125 (A)	更新
107	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.1.4-125.rhel7u4.x86_64.rpm	HPE Smart Array P408i-p SR Gen10 Controller	1.1.4-125 (A)	1.1.4-125 (A)	更新
108	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7	kmod-smartpqi-1.1.4-125.rhel7u4.x86_64.rpm	HPE Smart Array P816i-a SR Gen10 Controller	1.1.4-125 (A)	1.1.4-125 (A)	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
	(64-bit)					
109	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.1.4-125.rhel7u4.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	1.1.4-125 (A)	1.1.4-125 (A)	更新
110	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.1.4-125.rhel7u4.x86_64.rpm	HPE Smart Array E208i-a SR Gen10 Controller	1.1.4-125 (A)	1.1.4-125 (A)	更新
111	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.1.4-125.rhel7u4.x86_64.rpm	HPE Smart Array E208i-p SR Gen10 Controller	1.1.4-125 (A)	1.1.4-125 (A)	更新
112	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.1.4-125.rhel7u5.x86_64.rpm	HPE Smart Array P408i-a SR Gen10 Controller	1.1.4-125 (A)	1.1.4-125 (A)	新規追加
113	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.1.4-125.rhel7u5.x86_64.rpm	HPE Smart Array P408i-p SR Gen10 Controller	1.1.4-125 (A)	1.1.4-125 (A)	新規追加
114	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.1.4-125.rhel7u5.x86_64.rpm	HPE Smart Array P816i-a SR Gen10 Controller	1.1.4-125 (A)	1.1.4-125 (A)	新規追加
115	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.1.4-125.rhel7u5.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	1.1.4-125 (A)	1.1.4-125 (A)	新規追加
116	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.1.4-125.rhel7u5.x86_64.rpm	HPE Smart Array E208i-a SR Gen10 Controller	1.1.4-125 (A)	1.1.4-125 (A)	新規追加
117	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.1.4-125.rhel7u5.x86_64.rpm	HPE Smart Array E208i-p SR Gen10 Controller	1.1.4-125 (A)	1.1.4-125 (A)	新規追加
118	HPE Smart Array Gen10 Controller Driver for Windows Server 2012 R2 and Windows Server 2016	cp034601.exe	HPE Smart Array P408i-a SR Gen10 Controller	100.62.0.64	100.62.0.64	更新
119	HPE Smart Array Gen10 Controller Driver for Windows Server 2012 R2 and Windows Server 2016	cp034601.exe	HPE Smart Array P408i-p SR Gen10 Controller	100.62.0.64	100.62.0.64	更新
120	HPE Smart Array Gen10 Controller Driver for Windows Server 2012 R2 and Windows Server 2016	cp034601.exe	HPE Smart Array P816i-a SR Gen10 Controller	100.62.0.64	100.62.0.64	更新
121	HPE Smart Array Gen10 Controller Driver for Windows Server 2012 R2 and Windows Server 2016	cp034601.exe	HPE Smart Array E208e-p SR Gen10 Controller	100.62.0.64	100.62.0.64	更新
122	HPE Smart Array Gen10 Controller Driver for Windows Server 2012 R2 and Windows Server 2016	cp034601.exe	HPE Smart Array E208i-a SR Gen10 Controller	100.62.0.64	100.62.0.64	更新
123	HPE Smart Array Gen10 Controller Driver for Windows Server 2012 R2 and Windows Server 2016	cp034601.exe	HPE Smart Array E208i-p SR Gen10 Controller	100.62.0.64	100.62.0.64	更新

6.2.6 Driver - Storage Fibre Channel and Fibre Channel over Ethernet

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
124	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Windows 2012, Windows 2012R2 and Windows 2016	cp034221.exe	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	11.4.334.7	11.4.334.7	更新
125	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Windows 2012, Windows 2012R2 and Windows 2016	cp034221.exe	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	11.4.334.7	11.4.334.7	更新
126	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Windows 2012, Windows 2012R2 and Windows 2016	cp034221.exe	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	11.4.334.7	11.4.334.7	更新
127	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Windows 2012, Windows 2012R2 and Windows 2016	cp034221.exe	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	11.4.334.7	11.4.334.7	更新
128	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Windows Server 2012 and 2012 R2	cp034232.exe	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	9.2.8.20	9.2.8.20	更新
129	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Windows Server 2012 and 2012 R2	cp034232.exe	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	9.2.8.20	9.2.8.20	更新
130	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Windows Server 2012 and 2012 R2	cp034232.exe	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	9.2.8.20	9.2.8.20	更新
131	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Windows Server 2012 and 2012 R2	cp034232.exe	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	9.2.8.20	9.2.8.20	更新
132	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Windows Server 2016	cp034233.exe	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	9.2.8.20	9.2.8.20	更新
133	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Windows Server 2016	cp034233.exe	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	9.2.8.20	9.2.8.20	更新
134	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Windows Server 2016	cp034233.exe	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	9.2.8.20	9.2.8.20	更新
135	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Windows Server 2016	cp034233.exe	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	9.2.8.20	9.2.8.20	更新
136	Red Hat Enterprise Linux 6 Server (x86-64) FC Driver Kit for	kmod-qlgc-qla2xxx-8.08.00.07.06.0_k1-1.rhel6u	HPE StoreFabric SN1100Q 16Gb	8.08.00.07.06.0-k1	8.08.00.07.06.0-k1	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
	HPE Qlogic and mezzanine Host Bus Adapters	9.x86_64.rpm	Dual Port Fibre Channel Host Bus Adapter			
137	Red Hat Enterprise Linux 6 Server (x86-64) FC Driver Kit for HPE Qlogic and mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-8.08.00.07.06.0_k1-1.rhel6u9.x86_64.rpm	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	8.08.00.07.06.0-k1	8.08.00.07.06.0-k1	更新
138	Red Hat Enterprise Linux 6 Server (x86-64) FC Driver Kit for HPE Qlogic and mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-8.08.00.07.06.0_k1-1.rhel6u9.x86_64.rpm	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	8.08.00.07.06.0-k1	8.08.00.07.06.0-k1	更新
139	Red Hat Enterprise Linux 6 Server (x86-64) FC Driver Kit for HPE Qlogic and mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-8.08.00.07.06.0_k1-1.rhel6u9.x86_64.rpm	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	8.08.00.07.06.0-k1	8.08.00.07.06.0-k1	更新
140	Red Hat Enterprise Linux 6 Server (x86-64) Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and mezzanine Host Bus Adapters	kmod-elx-lpfc-11.4.334.12-1.rhel6u9.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	11.4.334.12	11.4.334.12	更新
141	Red Hat Enterprise Linux 6 Server (x86-64) Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and mezzanine Host Bus Adapters	kmod-elx-lpfc-11.4.334.12-1.rhel6u9.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	11.4.334.12	11.4.334.12	更新
142	Red Hat Enterprise Linux 6 Server (x86-64) Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and mezzanine Host Bus Adapters	kmod-elx-lpfc-11.4.334.12-1.rhel6u9.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	11.4.334.12	11.4.334.12	更新
143	Red Hat Enterprise Linux 6 Server (x86-64) Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and mezzanine Host Bus Adapters	kmod-elx-lpfc-11.4.334.12-1.rhel6u9.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	11.4.334.12	11.4.334.12	更新
144	Red Hat Enterprise Linux 7 Server FC Driver Kit for HPE QLogic and mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-8.08.00.07.07.0_k1-1.rhel7u4.x86_64.rpm	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	8.08.00.07.07.5-k1	8.08.00.07.07.5-k1	更新
145	Red Hat Enterprise Linux 7 Server FC Driver Kit for HPE QLogic and mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-8.08.00.07.07.0_k1-1.rhel7u4.x86_64.rpm	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	8.08.00.07.07.5-k1	8.08.00.07.07.5-k1	更新
146	Red Hat Enterprise Linux 7 Server FC Driver Kit for HPE QLogic and mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-8.08.00.07.07.0_k1-1.rhel7u4.x86_64.rpm	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	8.08.00.07.07.5-k1	8.08.00.07.07.5-k1	更新
147	Red Hat Enterprise Linux 7 Server FC Driver Kit for HPE QLogic and mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-8.08.00.07.07.0_k1-1.rhel7u4.x86_64.rpm	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	8.08.00.07.07.5-k1	8.08.00.07.07.5-k1	更新
148	Red Hat Enterprise Linux 7 Server FC Driver Kit for HPE QLogic and mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-8.08.00.07.07.5_k1-1.rhel7u5.x86_64.rpm	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	8.08.00.07.07.5-k1	8.08.00.07.07.5-k1	新規追加
149	Red Hat Enterprise Linux 7	kmod-qlgc-qla2xxx-8.08	HPE StoreFabric	8.08.00.07.0	8.08.00.07.07.	新規追加

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
	Server FC Driver Kit for HPE QLogic and mezzanine Host Bus Adapters	.00.07.07.5_k1-1.rhel7u5.x86_64.rpm	SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	7.5-k1	5-k1	
150	Red Hat Enterprise Linux 7 Server FC Driver Kit for HPE QLogic and mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-8.08.00.07.07.5_k1-1.rhel7u5.x86_64.rpm	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	8.08.00.07.07.5-k1	8.08.00.07.07.5-k1	新規追加
151	Red Hat Enterprise Linux 7 Server FC Driver Kit for HPE QLogic and mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-8.08.00.07.07.5_k1-1.rhel7u5.x86_64.rpm	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	8.08.00.07.07.5-k1	8.08.00.07.07.5-k1	新規追加
152	Red Hat Enterprise Linux 7 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and mezzanine Host Bus Adapters	kmod-elx-lpfc-11.4.334.12-1.rhel7u4.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	11.4.334.12	11.4.334.12	更新
153	Red Hat Enterprise Linux 7 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and mezzanine Host Bus Adapters	kmod-elx-lpfc-11.4.334.12-1.rhel7u4.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	11.4.334.12	11.4.334.12	更新
154	Red Hat Enterprise Linux 7 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and mezzanine Host Bus Adapters	kmod-elx-lpfc-11.4.334.12-1.rhel7u4.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	11.4.334.12	11.4.334.12	更新
155	Red Hat Enterprise Linux 7 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and mezzanine Host Bus Adapters	kmod-elx-lpfc-11.4.334.12-1.rhel7u4.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	11.4.334.12	11.4.334.12	更新
156	Red Hat Enterprise Linux 7 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and mezzanine Host Bus Adapters	kmod-elx-lpfc-11.4.334.12-1.rhel7u5.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	11.4.334.12	11.4.334.12	新規追加
157	Red Hat Enterprise Linux 7 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and mezzanine Host Bus Adapters	kmod-elx-lpfc-11.4.334.12-1.rhel7u5.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	11.4.334.12	11.4.334.12	新規追加
158	Red Hat Enterprise Linux 7 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and mezzanine Host Bus Adapters	kmod-elx-lpfc-11.4.334.12-1.rhel7u5.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	11.4.334.12	11.4.334.12	新規追加
159	Red Hat Enterprise Linux 7 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and mezzanine Host Bus Adapters	kmod-elx-lpfc-11.4.334.12-1.rhel7u5.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	11.4.334.12	11.4.334.12	新規追加

6.2.7 Driver – System Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
160	iLO 5 Automatic Server Recovery Driver for Windows Server 2012 R2	cp034068.exe	-	4.2.0.0 (B)	4.2.0.0 (B)	更新
161	iLO 5 Automatic Server Recovery Driver for Windows	cp034069.exe	-	4.2.0.0 (B)	4.2.0.0 (B)	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
	Server 2016					
162	iLO 5 Channel Interface Driver for Windows Server 2012 R2	cp034070.exe	-	4.3.0.0	4.3.0.0	更新
163	iLO 5 Channel Interface Driver for Windows Server 2016	cp034071.exe	-	4.3.0.0	4.3.0.0	更新

6.2.8 Driver – Video

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
164	Matrox G200eH3 Video Controller Driver for Windows Server 2012 R2	cp033123.exe	-	9.15.1.184 (B)	9.15.1.184 (B)	更新
165	Matrox G200eH3 Video Controller Driver for Windows Server 2016	cp033124.exe	-	9.15.1.184 (B)	9.15.1.184 (B)	更新

6.2.9 Firmware – Lights-Out Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
166	Language Pack - Japanese	cp035842.exe	Integrated Lights-Out 5 Language Pack	1.30	1.30	更新
167	Language Pack - Japanese	firmware-lpk-ilo-1.30-1.1.x86_64.rpm	Integrated Lights-Out 5 Language Pack	1.30	1.30	更新
168	Online ROM Flash Component for Linux - iLO 5	firmware-ilo5-1.30-1.1.x86_64.rpm	Integrated Lights-Out 5 Firmware	1.30 (a)	1.30	更新
169	Online ROM Flash Component for Windows x64 - iLO 5	cp036753.exe	Integrated Lights-Out 5 Firmware	1.30 (a)	1.30	更新

6.2.10 Firmware – Network

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
170	HPE Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-broadcom-2.21.3-1.1.x86_64.rpm	HP Ethernet 1Gb 2-port 332T Adapter	2.21.3	20.12.41	更新
171	HPE Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-broadcom-2.21.3-1.1.x86_64.rpm	HP Ethernet 1Gb 4-port 331FLR Adapter	2.21.3	20.12.41	更新
172	HPE Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-broadcom-2.21.3-1.1.x86_64.rpm	HP Ethernet 1Gb 4-port 331i Adapter (22BE)	2.21.3	20.12.41	更新
173	HPE Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-broadcom-2.21.3-1.1.x86_64.rpm	HP Ethernet 1Gb 4-port 331T Adapter	2.21.3	20.12.41	更新
174	HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp034766.exe	HP Ethernet 1Gb 2-port 332T Adapter	5.1.3.0	20.12.41	更新
175	HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp034766.exe	HP Ethernet 1Gb 4-port 331FLR Adapter	5.1.3.0	20.12.41	更新
176	HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp034766.exe	HP Ethernet 1Gb 4-port 331i Adapter (22BE)	5.1.3.0	20.12.41	更新
177	HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp034766.exe	HP Ethernet 1Gb 4-port 331T Adapter	5.1.3.0	20.12.41	更新
178	HPE Intel Online Firmware	firmware-nic-intel-1.15.	HPE Ethernet 1Gb	1.15.9	1.1904.0	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
	Upgrade Utility for Linux x86_64	9-1.1.x86_64.rpm	4-port 369i Adapter			
179	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.15.9-1.1.x86_64.rpm	HP Ethernet 1Gb 2-port 361T Adapter	1.15.9	1.1904.0	更新
180	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.15.9-1.1.x86_64.rpm	HP Ethernet 1Gb 4-port 366FLR Adapter	1.15.9	1.1904.0	更新
181	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.15.9-1.1.x86_64.rpm	HP Ethernet 1Gb 4-port 366T Adapter	1.15.9	1.1904.0	更新
182	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.15.9-1.1.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	1.15.9	10.3.5	更新
183	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.15.9-1.1.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	1.15.9	10.3.5	更新
184	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.15.9-1.1.x86_64.rpm	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	1.15.9	10.3.5	更新
185	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.15.9-1.1.x86_64.rpm	HPE Ethernet 10Gb 2-port 562T Adapter	1.15.9	10.3.5	更新
186	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp034074.exe	HPE Ethernet 1Gb 4-port 369i Adapter	5.1.3.0	1.1904.0	更新
187	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp034074.exe	HP Ethernet 1Gb 2-port 361T Adapter	5.1.3.0	1.1904.0	更新
188	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp034074.exe	HP Ethernet 1Gb 4-port 366FLR Adapter	5.1.3.0	1.1904.0	更新
189	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp034074.exe	HP Ethernet 1Gb 4-port 366T Adapter	5.1.3.0	1.1904.0	更新
190	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp034074.exe	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	5.1.3.0	10.3.5	更新
191	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp034074.exe	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	5.1.3.0	10.3.5	更新
192	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp034074.exe	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	5.1.3.0	10.3.5	更新
193	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp034074.exe	HPE Ethernet 10Gb 2-port 562T Adapter	5.1.3.0	10.3.5	更新
194	HPE QLogic NX2 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-qlogic-nx2-2.22.15-1.1.x86_64.rpm	HP Ethernet 10Gb 2-port 530SFP+ Adapter	2.22.15	7.17.19	更新
195	HPE QLogic NX2 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-qlogic-nx2-2.22.15-1.1.x86_64.rpm	HP Ethernet 10Gb 2-port 530T Adapter	2.22.15	7.17.19	更新
196	HPE QLogic NX2 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-qlogic-nx2-2.22.15-1.1.x86_64.rpm	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	2.22.15	7.17.19	更新
197	HPE QLogic NX2 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp034083.exe	HP Ethernet 10Gb 2-port 530SFP+ Adapter	5.1.3.0	7.17.19	更新
198	HPE QLogic NX2 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp034083.exe	HP Ethernet 10Gb 2-port 530T Adapter	5.1.3.0	7.17.19	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
199	HPE QLogic NX2 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp034083.exe	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	5.1.3.0	7.17.19	更新
200	Online Firmware Upgrade Utility (Linux x86_64) for HPE Mellanox Ethernet only adapters	firmware-nic-mellanox-ethernet-only-1.0.8-2.1.x86_64.rpm	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	1.0.8 (A)	14.22.1414	更新
201	Online Firmware Upgrade Utility (Linux x86_64) for HPE Mellanox Ethernet only adapters	firmware-nic-mellanox-ethernet-only-1.0.8-2.1.x86_64.rpm	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	1.0.8 (A)	14.22.1414	更新
202	Online Firmware Upgrade Utility (Linux x86_64) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX4 and ConnectX5 devices on Linux x86_64 platform	firmware-hca-mellanox-vpi-connectx4-1.0.4-1.1.x86_64.rpm	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	1.0.4	16.22.4030	新規追加
203	Online Firmware Upgrade Utility (Windows x64) for HPE Mellanox Ethernet only adapters	cp036334.exe	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	1.0.0.8 (A)	14.22.1414	更新
204	Online Firmware Upgrade Utility (Windows x64) for HPE Mellanox Ethernet only adapters	cp036334.exe	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	1.0.0.8 (A)	14.22.1414	更新
205	Online Firmware Upgrade Utility (Windows x64) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX4 and ConnectX5 devices on Windows x86_64 platform	cp034540.exe	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	1.0.0.4	16.22.4030	新規追加

6.2.11 Firmware – Power Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
206	Online ROM Flash for Linux - Advanced Power Capping Microcontroller Firmware for servers using Intel Xeon Scalable 3100/4100/5100/6100/8100 series Processors	firmware-powerpic-1.0.4-1.1.x86_64.rpm	Advanced Power Capping Microcontroller Firmware	1.0.4	1.0.4	
207	Online ROM Flash for Windows x64 - Advanced Power Capping Microcontroller Firmware for servers using Intel Xeon Scalable 3100/4100/5100/6100/8100 series Processors	cp033359.exe	Advanced Power Capping Microcontroller Firmware	1.0.4	1.0.4	

6.2.12 Firmware – SAS Storage Disk

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
208	Online ROM Flash Component for Windows (x64) - EG000600JWEBH and EG000300JWEBF Drives	cp034292.exe	EG000600JWEBH	HPD3 (B)	HPD3	更新
209	Online ROM Flash Component for Windows (x64) - EG000600JWEBH and EG000300JWEBF Drives	cp034292.exe	EG000300JWEBF	HPD3 (B)	HPD3	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
210	Online ROM Flash Component for Windows (x64) - EG001800JWJNR and EG002400JWJNT Drives	cp035599.exe	EG002400JWJNT	HPD1	HPD1	更新
211	Online ROM Flash Component for Windows (x64) - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB, and EG1200JEMDA Drives	cp034298.exe	EG1200JEMDA	HPD6 (B)	HPD6	更新
212	Online ROM Flash Component for Windows (x64) - EG1800JEMDB Drives	cp035863.exe	EG1800JEMDB	HPD5	HPD5	更新
213	Online ROM Flash Component for Windows (x64) - EH000300JWCPK, EH000600JWCPL, and EH000900JWCPN Drives	cp034310.exe	EH000300JWCPK	HPD3 (B)	HPD3	更新
214	Online ROM Flash Component for Windows (x64) - EH000300JWCPK, EH000600JWCPL, and EH000900JWCPN Drives	cp034310.exe	EH000600JWCPL	HPD3 (B)	HPD3	更新
215	Online ROM Flash Component for Windows (x64) - EH000300JWCPK, EH000600JWCPL, and EH000900JWCPN Drives	cp034310.exe	EH000900JWCPN	HPD3 (B)	HPD3	更新
216	Online ROM Flash Component for Windows (x64) - EO000400JWDKP,EO000800JWDKQ,EO001600JWDKR,MO000400JWDKU,MO000800JWDKV,MO001600JWDLA and MO003200JWDLB Drives	cp035545.exe	EO000400JWDKP	HPD1 (B)	HPD1	更新
217	Online ROM Flash Component for Windows (x64) - EO000400JWDKP,EO000800JWDKQ,EO001600JWDKR,MO000400JWDKU,MO000800JWDKV,MO001600JWDLA and MO003200JWDLB Drives	cp035545.exe	EO000800JWDKQ	HPD1 (B)	HPD1	更新
218	Online ROM Flash Component for Windows (x64) - EO000400JWDKP,EO000800JWDKQ,EO001600JWDKR,MO000400JWDKU,MO000800JWDKV,MO001600JWDLA and MO003200JWDLB Drives	cp035545.exe	EO001600JWDKR	HPD1 (B)	HPD1	更新
219	Online ROM Flash Component for Windows (x64) - EO000400JWDKP,EO000800JWDKQ,EO001600JWDKR,MO000400JWDKU,MO000800JWDKV,MO001600JWDLA and MO003200JWDLB Drives	cp035545.exe	MO000400JWDKU	HPD1 (B)	HPD1	更新
220	Online ROM Flash Component for Windows (x64) - EO000400JWDKP,EO000800JWDKQ,EO001600JWDKR,MO000400JWDKU,MO000800JWDKV,MO001600JWDLA and MO003200JWDLB Drives	cp035545.exe	MO000800JWDKV	HPD1 (B)	HPD1	更新
221	Online ROM Flash Component for Windows (x64) -	cp035545.exe	MO001600JWDLA	HPD1 (B)	HPD1	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
	EO000400JWDKP,EO000800JWDKQ,EO001600JWDKR,MO000400JWDKU,MO000800JWDKV,MO001600JWDLA and MO003200JWDLB Drives					
222	Online ROM Flash Component for Windows (x64) - EO000400JWDKP,EO000800JWDKQ,EO001600JWDKR,MO000400JWDKU,MO000800JWDKV,MO001600JWDLA and MO003200JWDLB Drives	cp035545.exe	MO003200JWDLB	HPD1 (B)	HPD1	更新
223	Online ROM Flash Component for Windows (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP, and MB4000JVYZQ Drives	cp035654.exe	MB1000JVYZL	HPD2 (B)	HPD2	更新
224	Online ROM Flash Component for Windows (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP, and MB4000JVYZQ Drives	cp035654.exe	MB2000JVYZN	HPD2 (B)	HPD2	更新
225	Online ROM Flash Component for Windows (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP, and MB4000JVYZQ Drives	cp035654.exe	MB4000JVYZQ	HPD2 (B)	HPD2	更新
226	Online ROM Flash Component for Windows (x64) - MB6000JVYYV Drives	cp035655.exe	MB6000JVYYV	HPD2 (B)	HPD2	更新
227	Online ROM Flash Component for Windows (x64) - MB8000JFECQ Drives	cp035652.exe	MB8000JFECQ	HPD7	HPD7	更新
228	Online ROM Flash Component for Windows (x64) - MM1000JEFRB and MM2000JEFRC Drives	cp034562.exe	MM2000JEFRC	HPD8	HPD8	更新
229	Online ROM Flash Component for Windows (x64) - MM1000JFJTH Drives	cp034509.exe	MM1000JFJTH	HPD3	HPD3	更新
230	Supplemental Update / Online ROM Flash Component for Linux (x64) - EG000600JWEBH and EG000300JWEBF Drives	firmware-hdd-aa9e289524-HPD3-2.1.x86_64.rpm	EG000600JWEBH	HPD3 (B)	HPD3	更新
231	Supplemental Update / Online ROM Flash Component for Linux (x64) - EG000600JWEBH and EG000300JWEBF Drives	firmware-hdd-aa9e289524-HPD3-2.1.x86_64.rpm	EG000300JWEBF	HPD3 (B)	HPD3	更新
232	Supplemental Update / Online ROM Flash Component for Linux (x64) - EG001800JWJNR and EG002400JWJNT Drives	firmware-hdd-b1c9eaf74c-HPD1-1.1.x86_64.rpm	EG002400JWJNT	HPD1	HPD1	更新
233	Supplemental Update / Online ROM Flash Component for Linux (x64) - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB, and EG1200JEMDA Drives	firmware-hdd-ac3fda26eb-HPD6-3.1.x86_64.rpm	EG1200JEMDA	HPD6 (C)	HPD6	更新
234	Supplemental Update / Online ROM Flash Component for Linux (x64) - EG1800JEMDB Drives	firmware-hdd-0a38b25661-HPD5-2.1.x86_64.rpm	EG1800JEMDB	HPD5 (B)	HPD5	更新
235	Supplemental Update / Online ROM Flash Component for Linux (x64) - EH000300JWCPK,	firmware-hdd-3d97759111-HPD3-2.1.x86_64.rpm	EH000900JWCPN	HPD3 (B)	HPD3	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
	EH000600JWCPL, and EH000900JWCPN Drives					
236	Supplemental Update / Online ROM Flash Component for Linux (x64) - EH000300JWCPK, EH000600JWCPL, and EH000900JWCPN Drives	firmware-hdd-3d97759 111-HPD3-2.1.x86_64.r pm	EH000600JWCPL	HPD3 (B)	HPD3	更新
237	Supplemental Update / Online ROM Flash Component for Linux (x64) - EH000300JWCPK, EH000600JWCPL, and EH000900JWCPN Drives	firmware-hdd-3d97759 111-HPD3-2.1.x86_64.r pm	EH000300JWCPK	HPD3 (B)	HPD3	更新
238	Supplemental Update / Online ROM Flash Component for Linux (x64) - EO000400JWDKP,EO000800JW DKQ,EO001600JWDKR,MO0004 00JWDKU,MO000800JWDKV,M O001600JWDLA and MO003200JWDLB Drives	firmware-hdd-5dcf26fa 42-HPD1-2.1.x86_64.rp m	EO000400JWDKP	HPD1 (B)	HPD1	更新
239	Supplemental Update / Online ROM Flash Component for Linux (x64) - EO000400JWDKP,EO000800JW DKQ,EO001600JWDKR,MO0004 00JWDKU,MO000800JWDKV,M O001600JWDLA and MO003200JWDLB Drives	firmware-hdd-5dcf26fa 42-HPD1-2.1.x86_64.rp m	EO000800JWDKQ	HPD1 (B)	HPD1	更新
240	Supplemental Update / Online ROM Flash Component for Linux (x64) - EO000400JWDKP,EO000800JW DKQ,EO001600JWDKR,MO0004 00JWDKU,MO000800JWDKV,M O001600JWDLA and MO003200JWDLB Drives	firmware-hdd-5dcf26fa 42-HPD1-2.1.x86_64.rp m	EO001600JWDKR	HPD1 (B)	HPD1	更新
241	Supplemental Update / Online ROM Flash Component for Linux (x64) - EO000400JWDKP,EO000800JW DKQ,EO001600JWDKR,MO0004 00JWDKU,MO000800JWDKV,M O001600JWDLA and MO003200JWDLB Drives	firmware-hdd-5dcf26fa 42-HPD1-2.1.x86_64.rp m	MO000400JWDK U	HPD1 (B)	HPD1	更新
242	Supplemental Update / Online ROM Flash Component for Linux (x64) - EO000400JWDKP,EO000800JW DKQ,EO001600JWDKR,MO0004 00JWDKU,MO000800JWDKV,M O001600JWDLA and MO003200JWDLB Drives	firmware-hdd-5dcf26fa 42-HPD1-2.1.x86_64.rp m	MO000800JWDK V	HPD1 (B)	HPD1	更新
243	Supplemental Update / Online ROM Flash Component for Linux (x64) - EO000400JWDKP,EO000800JW DKQ,EO001600JWDKR,MO0004 00JWDKU,MO000800JWDKV,M O001600JWDLA and MO003200JWDLB Drives	firmware-hdd-5dcf26fa 42-HPD1-2.1.x86_64.rp m	MO001600JWDLA	HPD1 (B)	HPD1	更新
244	Supplemental Update / Online ROM Flash Component for Linux (x64) - EO000400JWDKP,EO000800JW	firmware-hdd-5dcf26fa 42-HPD1-2.1.x86_64.rp m	MO003200JWDLB	HPD1 (B)	HPD1	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
	DKQ,EO001600JWDKR,MO000400JWDKU,MO000800JWDKV,MO001600JWDLA and MO003200JWDLB Drives					
245	Supplemental Update / Online ROM Flash Component for Linux (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP, and MB4000JVYZQ Drives	firmware-hdd-b85516c7d2-HPD2-2.1.x86_64.rpm	MB1000JVYZL	HPD2 (B)	HPD2	更新
246	Supplemental Update / Online ROM Flash Component for Linux (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP, and MB4000JVYZQ Drives	firmware-hdd-b85516c7d2-HPD2-2.1.x86_64.rpm	MB2000JVYZN	HPD2 (B)	HPD2	更新
247	Supplemental Update / Online ROM Flash Component for Linux (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP, and MB4000JVYZQ Drives	firmware-hdd-b85516c7d2-HPD2-2.1.x86_64.rpm	MB4000JVYZQ	HPD2 (B)	HPD2	更新
248	Supplemental Update / Online ROM Flash Component for Linux (x64) - MB6000JVYYV Drives	firmware-hdd-0595c2a887-HPD2-2.1.x86_64.rpm	MB6000JVYYV	HPD2 (B)	HPD2	更新
249	Supplemental Update / Online ROM Flash Component for Linux (x64) - MB8000JFECQ Drives	firmware-hdd-252770cdda-HPD7-1.1.x86_64.rpm	MB8000JFECQ	HPD7	HPD7	更新
250	Supplemental Update / Online ROM Flash Component for Linux (x64) - MM1000JEFRB and MM2000JEFRC Drives	firmware-hdd-b04257b77b-HPD8-1.1.x86_64.rpm	MM2000JEFRC	HPD8	HPD8	更新
251	Supplemental Update / Online ROM Flash Component for Linux (x64) - MM1000JFJTH Drives	firmware-hdd-fa46c607d6-HPD3-1.1.x86_64.rpm	MM1000JFJTH	HPD3	HPD3	更新

6.2.13 Firmware - SATA Storage Disk

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
252	Online ROM Flash Component for Windows (x64) - MB001000GWCBC and MB002000GWCBD Drives	cp035650.exe	MB001000GWCBC	HPG4 (C)	HPG4	更新
253	Online ROM Flash Component for Windows (x64) - MB001000GWFWK and MB002000GWFWL Drives	cp035587.exe	MB002000GWFWL	HPG4 (C)	HPG4	更新
254	Online ROM Flash Component for Windows (x64) - MB002000GWFGH and MB001000GWFGF Drives	cp034198.exe	MB001000GWFGF	HPG3	HPG3	更新
255	Online ROM Flash Component for Windows (x64) - MB006000GWBXQ and MB008000GWBYL Drives	cp035657.exe	MB006000GWBXQ	HPG5 (C)	HPG5	更新
256	Online ROM Flash Component for Windows (x64) - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH, and MB4000GVYZK Drives	cp035662.exe	MB4000GVYZK	HPG4 (C)	HPG4	更新
257	Online ROM Flash Component for Windows (x64) - MB8000GFECR Drives	cp035724.exe	MB8000GFECR	HPG5 (B)	HPG5	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
258	Online ROM Flash Component for Windows (x64) - MM1000GEFQV and MM2000GEFRA Drives	cp034322.exe	MM2000GEFRA	HPG5 (B)	HPG5	更新
259	Online ROM Flash Component for Windows (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK, and MK001920GWHRU Drives	cp035660.exe	VK000240GWEZB	HPG6 (B)	HPG6	更新
260	Online ROM Flash Component for Windows (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK, and MK001920GWHRU Drives	cp035660.exe	VK000480GWEZC	HPG6 (B)	HPG6	更新
261	Online ROM Flash Component for Windows (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK, and MK001920GWHRU Drives	cp035660.exe	VK000960GWEZD	HPG6 (B)	HPG6	更新
262	Online ROM Flash Component for Windows (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK, and MK001920GWHRU Drives	cp035660.exe	MK000240GWEZF	HPG6 (B)	HPG6	更新
263	Online ROM Flash Component for Windows (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK, and MK001920GWHRU Drives	cp035660.exe	MK000480GWEZH	HPG6 (B)	HPG6	更新
264	Online ROM Flash Component for Windows (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK, and MK001920GWHRU Drives	cp035660.exe	MK000960GWEZK	HPG6 (B)	HPG6	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
265	Online ROM Flash Component for Windows (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK, and MK001920GWHRU Drives	cp035660.exe	MK001920GWHRU	HPG6 (B)	HPG6	更新
266	Supplemental Update / Online ROM Flash Component for Linux (x64) - MB001000GWCBC and MB002000GWCBD Drives	firmware-hdd-68b12e54d2-HPG4-3.1.x86_64.rpm	MB001000GWCBC	HPG4 (C)	HPG4	更新
267	Supplemental Update / Online ROM Flash Component for Linux (x64) - MB001000GWFWK and MB002000GWFWL Drives	firmware-hdd-bfc4af697b-HPG4-3.1.x86_64.rpm	MB002000GWFWL	HPG4 (C)	HPG4	更新
268	Supplemental Update / Online ROM Flash Component for Linux (x64) - MB002000GWFGH and MB001000GWFGF Drives	firmware-hdd-0b575b5895-HPG3-1.1.x86_64.rpm	MB001000GWFGF	HPG3	HPG3	更新
269	Supplemental Update / Online ROM Flash Component for Linux (x64) - MB006000GWBXQ and MB008000GWBYL Drives	firmware-hdd-a1fd19f9ca-HPG5-3.1.x86_64.rpm	MB006000GWBXQ	HPG5 (C)	HPG5	更新
270	Supplemental Update / Online ROM Flash Component for Linux (x64) - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH, and MB4000GVYZK Drives	firmware-hdd-0a7010918e-HPG4-3.1.x86_64.rpm	MB4000GVYZK	HPG4 (C)	HPG4	更新
271	Supplemental Update / Online ROM Flash Component for Linux (x64) - MB8000GFECR Drives	firmware-hdd-6d922fc9a8-HPG5-2.1.x86_64.rpm	MB8000GFECR	HPG5 (B)	HPG5	更新
272	Supplemental Update / Online ROM Flash Component for Linux (x64) - MM1000GEFQV and MM2000GEFRA Drives	firmware-hdd-ec908c3650-HPG5-2.1.x86_64.rpm	MM2000GEFRA	HPG5 (B)	HPG5	更新
273	Supplemental Update / Online ROM Flash Component for Linux (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK, and MK001920GWHRU Drives	firmware-hdd-3db7640485-HPG6-2.1.x86_64.rpm	VK000240GWEZB	HPG6 (B)	HPG6	更新
274	Supplemental Update / Online ROM Flash Component for Linux (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK, and MK001920GWHRU Drives	firmware-hdd-3db7640485-HPG6-2.1.x86_64.rpm	VK000480GWEZC	HPG6 (B)	HPG6	更新
275	Supplemental Update / Online ROM Flash Component for Linux (x64) - VK000240GWEZB, VK000480GWEZC,	firmware-hdd-3db7640485-HPG6-2.1.x86_64.rpm	VK000960GWEZD	HPG6 (B)	HPG6	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
	VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK, and MK001920GWHRU Drives					
276	Supplemental Update / Online ROM Flash Component for Linux (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK, and MK001920GWHRU Drives	firmware-hdd-3db7640485-HPG6-2.1.x86_64.rpm	MK000240GWEZF	HPG6 (B)	HPG6	更新
277	Supplemental Update / Online ROM Flash Component for Linux (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK, and MK001920GWHRU Drives	firmware-hdd-3db7640485-HPG6-2.1.x86_64.rpm	MK000480GWEZH	HPG6 (B)	HPG6	更新
278	Supplemental Update / Online ROM Flash Component for Linux (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK, and MK001920GWHRU Drives	firmware-hdd-3db7640485-HPG6-2.1.x86_64.rpm	MK000960GWEZK	HPG6 (B)	HPG6	更新
279	Supplemental Update / Online ROM Flash Component for Linux (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK, and MK001920GWHRU Drives	firmware-hdd-3db7640485-HPG6-2.1.x86_64.rpm	MK001920GWHRU	HPG6 (B)	HPG6	更新

6.2.14 Firmware – Storage Controller

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
280	Online ROM Flash Component for Windows (x64) - HPE 12Gb/s SAS Expander Firmware for HPE Smart Array Controllers and HPE HBA Controllers	cp034755.exe	HPE 12Gb SAS Expander Card	4.02 (B)	4.02	更新
281	Online ROM Flash Component for Windows (x64) - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	cp032660.exe	HPE Smart Array P816i-a SR Gen10 Controller	1.05	1.05	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
282	Online ROM Flash Component for Windows (x64) - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	cp032660.exe	HPE Smart Array P408i-a SR Gen10 Controller	1.05	1.05	更新
283	Online ROM Flash Component for Windows (x64) - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	cp032660.exe	HPE Smart Array P408i-p SR Gen10 Controller	1.05	1.05	更新
284	Online ROM Flash Component for Windows (x64) - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	cp032660.exe	HPE Smart Array E208e-p SR Gen10 Controller	1.05	1.05	更新
285	Online ROM Flash Component for Windows (x64) - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	cp032660.exe	HPE Smart Array E208i-p SR Gen10 Controller	1.05	1.05	更新
286	Online ROM Flash Component for Windows (x64) - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	cp032660.exe	HPE Smart Array E208i-a SR Gen10 Controller	1.05	1.05	更新
287	Supplemental Update / Online ROM Flash Component for Linux (x64) – HPE 12Gb/s SAS Expander Firmware for HPE Smart Array Controllers and HPE HBA Controllers	firmware-smartarray-2de15b6882-4.02-1.1.x86_64.rpm	HPE 12Gb SAS Expander Card	4.02	4.02	
288	Supplemental Update / Online ROM Flash Component for Linux (x64) - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	firmware-smartarray-f7c07bdbbd-1.05-1.1.x86_64.rpm	HPE Smart Array P816i-a SR Gen10 Controller	1.05	1.05	更新
289	Supplemental Update / Online ROM Flash Component for Linux (x64) - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	firmware-smartarray-f7c07bdbbd-1.05-1.1.x86_64.rpm	HPE Smart Array P408i-a SR Gen10 Controller	1.05	1.05	更新
290	Supplemental Update / Online ROM Flash Component for	firmware-smartarray-f7c07bdbbd-1.05-1.1.x86	HPE Smart Array P408i-p SR Gen10	1.05	1.05	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
	Linux (x64) - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	_64.rpm	Controller			
291	Supplemental Update / Online ROM Flash Component for Linux (x64) - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	firmware-smartarray-f7c07bdbbd-1.05-1.1.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	1.05	1.05	更新
292	Supplemental Update / Online ROM Flash Component for Linux (x64) - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	firmware-smartarray-f7c07bdbbd-1.05-1.1.x86_64.rpm	HPE Smart Array E208i-p SR Gen10 Controller	1.05	1.05	更新
293	Supplemental Update / Online ROM Flash Component for Linux (x64) - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	firmware-smartarray-f7c07bdbbd-1.05-1.1.x86_64.rpm	HPE Smart Array E208i-a SR Gen10 Controller	1.05	1.05	更新

6.2.15　Firmware – Storage Fibre Channel

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
294	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Linux (x64)	firmware-fc-emulex-2018.06.01-1.13.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	2018.06.01	11.4.334.10	更新
295	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Linux (x64)	firmware-fc-emulex-2018.06.01-1.13.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	2018.06.01	11.4.334.10	更新
296	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Linux (x64)	firmware-fc-emulex-2018.06.01-1.13.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	2018.06.01	11.4.334.11	更新
297	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Linux (x64)	firmware-fc-emulex-2018.06.01-1.13.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	2018.06.01	11.4.334.11	更新
298	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Windows 2012/2012 R2/2016 x64	cp034219.exe	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	2018.06.01	11.4.334.11	更新
299	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Windows 2012/2012 R2/2016 x64	cp034219.exe	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus	2018.06.01	11.4.334.11	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
			Adapter			
300	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Windows 2012/2012 R2/2016 x64	cp034219.exe	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	2018.06.01	11.4.334.10	更新
301	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Windows 2012/2012 R2/2016 x64	cp034219.exe	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	2018.06.01	11.4.334.10	更新
302	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Linux (x86_64)	firmware-fc-qlogic-2018.06.01-1.9.x86_64.rpm	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	2018.06.01	01.70.85	更新
303	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Linux (x86_64)	firmware-fc-qlogic-2018.06.01-1.9.x86_64.rpm	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	2018.06.01	01.70.85	更新
304	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Linux (x86_64)	firmware-fc-qlogic-2018.06.01-1.9.x86_64.rpm	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	2018.06.01	01.70.85	更新
305	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Linux (x86_64)	firmware-fc-qlogic-2018.06.01-1.9.x86_64.rpm	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	2018.06.01	01.70.85	更新
306	HPE Firmware Online Flash for QLogic Fibre Channel Host Bus Adapters - Windows 2012/2012R2/2016 (x86_64)	cp034231.exe	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	2018.06.01	01.70.85	更新
307	HPE Firmware Online Flash for QLogic Fibre Channel Host Bus Adapters - Windows 2012/2012R2/2016 (x86_64)	cp034231.exe	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	2018.06.01	01.70.85	更新
308	HPE Firmware Online Flash for QLogic Fibre Channel Host Bus Adapters - Windows 2012/2012R2/2016 (x86_64)	cp034231.exe	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	2018.06.01	01.70.85	更新
309	HPE Firmware Online Flash for QLogic Fibre Channel Host Bus Adapters - Windows 2012/2012R2/2016 (x86_64)	cp034231.exe	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	2018.06.01	01.70.85	更新

6.2.16 Firmware – System

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
310	Online Flash Component for Linux - Gen10 NVMe Backplane PIC Firmware	firmware-nvmebackplane-gen10-1.20-4.1.x86_64.rpm	NVMe Backplane PIC	1.20 (D)	1.20	更新
311	Online Flash Component for Linux - Gen10 NVMe Backplane PIC Firmware	firmware-nvmebackplane-gen10-1.20-4.1.x86_64.rpm	NVMe Backplane PIC	1.20 (D)	1.20	更新
312	Online Flash Component for Windows x64 - Gen10 NVMe	cp036570.exe	NVMe Backplane PIC	1.20 (C)	1.20	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
	Backplane PIC Firmware					
313	Online Flash Component for Windows x64 - Gen10 NVMe Backplane PIC Firmware	cp036570.exe	NVMe Backplane PIC	1.20 (C)	1.20	更新

6.2.17 Software - Lights-Out Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
314	HP Lights-Out Online Configuration Utility for Linux (AMD64/EM64T)	hponcfg-5.3.0-0.x86_64.rpm	-	5.3.0-0	5.3.0-0	更新
315	HP Lights-Out Online Configuration Utility for Windows x64 Editions	cp033351.exe	-	5.2.0.0	5.2.0.0	

6.2.18 Software - Storage Controller

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
316	HPE Smart Array SR Event Notification Service for Windows Server 64-bit Editions	cp034018.exe	HPE Smart Array P408i-a SR Gen10 Controller	1.0.0.64 (B)	1.0.0.64 (B)	
317	HPE Smart Array SR Event Notification Service for Windows Server 64-bit Editions	cp034018.exe	HPE Smart Array P408i-p SR Gen10 Controller	1.0.0.64 (B)	1.0.0.64 (B)	
318	HPE Smart Array SR Event Notification Service for Windows Server 64-bit Editions	cp034018.exe	HPE Smart Array P816i-a SR Gen10 Controller	1.0.0.64 (B)	1.0.0.64 (B)	
319	HPE Smart Array SR Event Notification Service for Windows Server 64-bit Editions	cp034018.exe	HPE Smart Array E208e-p SR Gen10 Controller	1.0.0.64 (B)	1.0.0.64 (B)	
320	HPE Smart Array SR Event Notification Service for Windows Server 64-bit Editions	cp034018.exe	HPE Smart Array E208i-p SR Gen10 Controller	1.0.0.64 (B)	1.0.0.64 (B)	
321	HPE Smart Array SR Event Notification Service for Windows Server 64-bit Editions	cp034018.exe	HPE Smart Array E208i-a SR Gen10 Controller	1.0.0.64 (B)	1.0.0.64 (B)	

6.2.19 Software - Storage Fibre Channel HBA

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
322	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux (x86_64)	fibreutils-3.3-5.x86_64.rpm	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	3.3-5	3.3-5	
323	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux (x86_64)	fibreutils-3.3-5.x86_64.rpm	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	3.3-5	3.3-5	
324	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux (x86_64)	fibreutils-3.3-5.x86_64.rpm	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	3.3-5	3.3-5	
325	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux (x86_64)	fibreutils-3.3-5.x86_64.rpm	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	3.3-5	3.3-5	

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
326	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux (x86_64)	fibreutils-3.3-5.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	3.3-5	3.3-5	
327	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux (x86_64)	fibreutils-3.3-5.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	3.3-5	3.3-5	
328	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux (x86_64)	fibreutils-3.3-5.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	3.3-5	3.3-5	
329	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux (x86_64)	fibreutils-3.3-5.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	3.3-5	3.3-5	
330	HPE Emulex Fibre Channel Enablement Kit for Red Hat Enterprise Linux 6 Server	HP-CNA-FC-Emulex-Enablement-Kit-11.4.334.2-1.rhel6.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	11.4.334.2	11.4.334.2	更新
331	HPE Emulex Fibre Channel Enablement Kit for Red Hat Enterprise Linux 6 Server	HP-CNA-FC-Emulex-Enablement-Kit-11.4.334.2-1.rhel6.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	11.4.334.2	11.4.334.2	更新
332	HPE Emulex Fibre Channel Enablement Kit for Red Hat Enterprise Linux 6 Server	HP-CNA-FC-Emulex-Enablement-Kit-11.4.334.2-1.rhel6.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	11.4.334.2	11.4.334.2	更新
333	HPE Emulex Fibre Channel Enablement Kit for Red Hat Enterprise Linux 6 Server	HP-CNA-FC-Emulex-Enablement-Kit-11.4.334.2-1.rhel6.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	11.4.334.2	11.4.334.2	更新
334	HPE Emulex Fibre Channel Enablement Kit for Red Hat Enterprise Linux 7 Server	HP-CNA-FC-Emulex-Enablement-Kit-11.4.334.2-1.rhel7.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	11.4.334.2	11.4.334.2	更新
335	HPE Emulex Fibre Channel Enablement Kit for Red Hat Enterprise Linux 7 Server	HP-CNA-FC-Emulex-Enablement-Kit-11.4.334.2-1.rhel7.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	11.4.334.2	11.4.334.2	更新
336	HPE Emulex Fibre Channel Enablement Kit for Red Hat Enterprise Linux 7 Server	HP-CNA-FC-Emulex-Enablement-Kit-11.4.334.2-1.rhel7.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	11.4.334.2	11.4.334.2	更新
337	HPE Emulex Fibre Channel Enablement Kit for Red Hat Enterprise Linux 7 Server	HP-CNA-FC-Emulex-Enablement-Kit-11.4.334.2-1.rhel7.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	11.4.334.2	11.4.334.2	更新
338	HPE Emulex Smart SAN Enablement Kit for Linux	hpe-emulex-smartsan-enablement-kit-1.0.0.0-4.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus	1.0.0.0-4 (b)	1.0.0.0-4 (b)	

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
			Adapter			
339	HPE Emulex Smart SAN Enablement Kit for Linux	hpe-emulex-smartsan-enablement-kit-1.0.0.0-4.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	1.0.0.0-4 (b)	1.0.0.0-4 (b)	
340	HPE Emulex Smart SAN Enablement Kit for Linux	hpe-emulex-smartsan-enablement-kit-1.0.0.0-4.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	1.0.0.0-4 (b)	1.0.0.0-4 (b)	
341	HPE Emulex Smart SAN Enablement Kit for Linux	hpe-emulex-smartsan-enablement-kit-1.0.0.0-4.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	1.0.0.0-4 (b)	1.0.0.0-4 (b)	
342	HPE Emulex Smart SAN Enablement Kit for Windows 64 bit operating systems	cp033240.exe	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	1.0.0.1 (f)	1.0.0.1 (f)	
343	HPE Emulex Smart SAN Enablement Kit for Windows 64 bit operating systems	cp033240.exe	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	1.0.0.1 (f)	1.0.0.1 (f)	
344	HPE Emulex Smart SAN Enablement Kit for Windows 64 bit operating systems	cp033240.exe	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	1.0.0.1 (f)	1.0.0.1 (f)	
345	HPE Emulex Smart SAN Enablement Kit for Windows 64 bit operating systems	cp033240.exe	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	1.0.0.1 (f)	1.0.0.1 (f)	
346	HPE Fibre Channel Enablement Kit for Linux - QLogic	HP-CNA-FC-hpqlgc-Enablement-Kit-6.0.0.0-4.noarch.rpm	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	6.0.0.0-4 (d)	6.0.0.0-4 (d)	
347	HPE Fibre Channel Enablement Kit for Linux - QLogic	HP-CNA-FC-hpqlgc-Enablement-Kit-6.0.0.0-4.noarch.rpm	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	6.0.0.0-4 (d)	6.0.0.0-4 (d)	
348	HPE Fibre Channel Enablement Kit for Linux - QLogic	HP-CNA-FC-hpqlgc-Enablement-Kit-6.0.0.0-4.noarch.rpm	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	6.0.0.0-4 (d)	6.0.0.0-4 (d)	
349	HPE Fibre Channel Enablement Kit for Linux - QLogic	HP-CNA-FC-hpqlgc-Enablement-Kit-6.0.0.0-4.noarch.rpm	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	6.0.0.0-4 (d)	6.0.0.0-4 (d)	
350	HPE QLogic Smart SAN enablement kit for Linux	hpe-qlogic-smartsan-enablement-kit-3.3-3.x86_64.rpm	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	3.3-3 (b)	3.3-3 (b)	
351	HPE QLogic Smart SAN enablement kit for Linux	hpe-qlogic-smartsan-enablement-kit-3.3-3.x86_64.rpm	HPE StoreFabric SN1100Q 16Gb Single Port Fibre	3.3-3 (b)	3.3-3 (b)	

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
			Channel Host Bus Adapter			
352	HPE QLogic Smart SAN enablement kit for Linux	hpe-qlogic-smartsan-enablement-kit-3.3-3.x86_64.rpm	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	3.3-3 (b)	3.3-3 (b)	
353	HPE QLogic Smart SAN enablement kit for Linux	hpe-qlogic-smartsan-enablement-kit-3.3-3.x86_64.rpm	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	3.3-3 (b)	3.3-3 (b)	
354	HPE QLogic Smart SAN Enablement Kit for Windows 64 bit operating systems	cp033239.exe	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	1.0.0.1 (e)	1.0.0.1 (e)	
355	HPE QLogic Smart SAN Enablement Kit for Windows 64 bit operating systems	cp033239.exe	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	1.0.0.1 (e)	1.0.0.1 (e)	
356	HPE QLogic Smart SAN Enablement Kit for Windows 64 bit operating systems	cp033239.exe	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	1.0.0.1 (e)	1.0.0.1 (e)	
357	HPE QLogic Smart SAN Enablement Kit for Windows 64 bit operating systems	cp033239.exe	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	1.0.0.1 (e)	1.0.0.1 (e)	

6.2.20　Software – System Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
358	Agentless Management Service (iLO 5) for Red Hat Enterprise Linux 6 Server	amsd-1.3.0-2803.25.rhel6.x86_64.rpm	-	1.3.0	1.3.0	更新
359	Agentless Management Service (iLO 5) for Red Hat Enterprise Linux 7 Server	amsd-1.3.0-2804.29.rhel7.x86_64.rpm	-	1.3.0	1.3.0	更新
360	Agentless Management Service for Windows X64	cp034101.exe	-	1.30.0.0	1.30.0.0	更新
361	NVMe Drive Eject NMI Fix for Intel Xeon Processor Scalable Family for Windows	cp033116.exe	-	1.1.0.0 (B)	1.1.0.0 (B)	
362	Smart Storage Administrator (SSA) CLI for Linux 64-bit	ssacli-3.30-14.0.x86_64.rpm	-	3.30.14.0	3.30.14.0	更新
363	Smart Storage Administrator (SSA) CLI for Windows 64-bit	cp034625.exe	-	3.30.14.0	3.30.14.0	更新
364	Smart Storage Administrator (SSA) for Linux 64-bit	ssa-3.30-14.0.x86_64.rpm	-	3.30.14.0	3.30.14.0	更新
365	Smart Storage Administrator (SSA) for Windows 64-bit	cp034624.exe	-	3.30.14.0	3.30.14.0	更新
366	Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Linux 64-bit	ssaducli-3.30-14.0.x86_64.rpm	-	3.30.14.0	3.30.14.0	更新
367	Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Windows 64-bit	cp034626.exe	-	3.30.14.0	3.30.14.0	更新

6.3 パッケージの変更内容

Online ROM Flash Component for Linux - OEM System ROM U34

      Version: 1.40_06-15-2018 (Optional)

<u>Enhancements</u>

- ・Added support to decode certain Machine Check Exceptions to a specific failing PCIe device. Previous versions of the System ROM would log a generic Machine Check event to the Integrated Management Log (IML) for these error events.
- ・Added a new BIOS/Platform Configuration (RBSU) Memory Controller Interleaving menu. This option allows disabling memory controller interleaving which may improve memory performance for systems configured with an unbalanced memory configuration.
- ・Added a new BIOS/Platform Configuration (RBSU) Processor Jitter Control Optimization menu for Jitter Smoothing Support. This new optimization setting allows customers to choose between optimizing Auto-tuned mode for maximum throughput performance, low latency, or the default - zero latency.
- ・Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.
- ・Updated the language translations (non-English modes) for System Utilities.

<u>Fixes</u>

- ・Addressed an issue where systems may experience an 389-Unexpected Shutdown and Restart, logged in the iLO Integrated Management Log (IML). This issue is not unique to Hitachi servers.
- ・Addressed an issue where the Embedded Diagnostics may not launch properly when the UEFI POST Discovery Mode option is set to Force Fast Discovery.
- ・Addressed an issue where the Integrated Management Log (IML) Viewer in the System Utilities menu may become unresponsive when launched.
- ・Addressed an issue where the HPE Dual SD Card USB Module may not boot properly when the UEFI POST Discovery Mode option is set to Force Fast Discovery.
- ・Addressed an issue where the Trusted Platform Module (TPM) Firmware update may not complete properly when the TPM is configured for TPM 2.0 Mode. This issue does not impact systems configured with a TPM operating in TPM 1.2 mode.
- ・Addressed an issue where the system may not be able to boot to Intelligent Provisioning when a third party USB Key was installed in one of the server USB Ports. This issue was seen with a specific USB Key and has not been seen with other devices.
- ・Addressed an issue where Integrated Lights-Out (iLO) Virtual Media may not boot properly when the UEFI POST Discovery Mode option is set to Force Full Discovery.
- ・Addressed an issue where the system may become unresponsive during POST or experience a Red Screen on the next boot following an I/O Machine Check Failure at runtime.
- ・Addressed an issue where a system configured with the internal SD Card disabled from BIOS/Platform Configuration (RBSU) and an HPE Dual SD card installed would not boot from the HPE Dual SD card USB Module when configured in Legacy Boot Mode. This issue does not impact systems configured in UEFI

Boot Mode.

· Addressed an issue where a system configured with an optional HPE CN1200E-T adapter would not boot properly when configured in Legacy Boot Mode. This issue does not impact systems configured in UEFI Boot Mode.

· Addressed an issue where systems configured with HPE s100i Software RAID may experience a failed RAID volume on a system reset.

· Added a new Power Supply Redundancy Message to inform a user of running a system configured with four power supplies in an invalid Power Supply Redundancy Mode such as 1+1 Redundancy Mode.

Online ROM Flash Component for Linux - System ROM U30

Version: 1.40_06-15-2018 (Optional)

Enhancements

· Added support to decode certain Machine Check Exceptions to a specific failing PCIe device. Previous versions of the System ROM would log a generic Machine Check event to the Integrated Management Log (IML) for these error events.

· Added a new BIOS/Platform Configuration (RBSU) Memory Controller Interleaving menu. This option allows disabling memory controller interleaving which may improve memory performance for systems configured with an unbalanced memory configuration.

· Added a new BIOS/Platform Configuration (RBSU) Processor Jitter Control Optimization menu for Jitter Smoothing Support. This new optimization setting allows customers to choose between optimizing Auto-tuned mode for maximum throughput performance, low latency, or the default - zero latency.

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

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

Fixes

· Addressed an issue where systems may experience an 389-Unexpected Shutdown and Restart, logged in the iLO Integrated Management Log (IML). This issue is not unique to Hitachi servers.

· Addressed an issue where the Embedded Diagnostics may not launch properly when the UEFI POST Discovery Mode option is set to Force Fast Discovery.

· Addressed an issue where the Integrated Management Log (IML) Viewer in the System Utilities menu may become unresponsive when launched.

· Addressed an issue where a system configured for HPE Scalable Persistent Memory may not properly log a backup failure event to the Integrated Management Log (IML).

· Addressed an issue where the HPE Dual SD Card USB Module may not boot properly when the UEFI POST Discovery Mode option is set to Force Fast Discovery.

· Addressed an issue where the Trusted Platform Module (TPM) Firmware update may not complete properly when the TPM is configured for TPM 2.0 Mode. This issue does not impact systems configured with a TPM operating in TPM 1.2 mode.

- Addressed an issue where the system may not be able to boot to Intelligent Provisioning when a third party USB Key was installed in one of the server USB Ports. This issue was seen with a specific USB Key and has not been seen with other devices.
- Addressed an issue where Integrated Lights-Out (iLO) Virtual Media may not boot properly when the UEFI POST Discovery Mode option is set to Force Full Discovery.
- Addressed an issue where the system may become unresponsive during POST or experience a Red Screen on the next boot following an I/O Machine Check Failure at runtime.
- Addressed an issue where a system configured with the internal SD Card disabled from BIOS/Platform Configuration (RBSU) and an HPE Dual SD card installed would not boot from the HPE Dual SD card USB Module when configured in Legacy Boot Mode. This issue does not impact systems configured in UEFI Boot Mode.
- Addressed an issue where a system configured with an optional HPE CN1200E-T adapter would not boot properly when configured in Legacy Boot Mode. This issue does not impact systems configured in UEFI Boot Mode.
- Addressed an issue where systems configured with HPE s100i Software RAID may experience a failed RAID volume on a system reset.
- Addressed an issue where systems configured for Scalable Persistent Memory may not function properly after changing certain BIOS/Platform Configuration (RBSU) Settings such as Intel TXT support. Previously these configuration changes could have led to a loss of persistent data.

Online ROM Flash Component for Linux - System ROM U32

Version: 1.40_06-15-2018 (Optional)

Enhancements

- Added support to decode certain Machine Check Exceptions to a specific failing PCIe device. Previous versions of the System ROM would log a generic Machine Check event to the Integrated Management Log (IML) for these error events.
- Added a new BIOS/Platform Configuration (RBSU) Memory Controller Interleaving menu. This option allows disabling memory controller interleaving which may improve memory performance for systems configured with an unbalanced memory configuration.
- Added a new BIOS/Platform Configuration (RBSU) Processor Jitter Control Optimization menu for Jitter Smoothing Support. This new optimization setting allows customers to choose between optimizing Auto-tuned mode for maximum throughput performance, low latency, or the default - zero latency.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.
- Updated the language translations (non-English modes) for System Utilities.

Fixes

- Addressed an issue where systems may experience an 389-Unexpected Shutdown and Restart, logged in the iLO Integrated Management Log (IML). This issue is not unique to Hitachi servers.

- Addressed an issue where the Embedded Diagnostics may not launch properly when the UEFI POST Discovery Mode option is set to Force Fast Discovery.
- Addressed an issue where the Integrated Management Log (IML) Viewer in the System Utilities menu may become unresponsive when launched.
- Addressed an issue where the HPE Dual SD Card USB Module may not boot properly when the UEFI POST Discovery Mode option is set to Force Fast Discovery.
- Addressed an issue where the Trusted Platform Module (TPM) Firmware update may not complete properly when the TPM is configured for TPM 2.0 Mode. This issue does not impact systems configured with a TPM operating in TPM 1.2 mode.
- Addressed an issue where the system may not be able to boot to Intelligent Provisioning when a third party USB Key was installed in one of the server USB Ports. This issue was seen with a specific USB Key and has not been seen with other devices.
- Addressed an issue where Integrated Lights-Out (iLO) Virtual Media may not boot properly when the UEFI POST Discovery Mode option is set to Force Full Discovery.
- Addressed an issue where the system may become unresponsive during POST or experience a Red Screen on the next boot following an I/O Machine Check Failure at runtime.
- Addressed an issue where a system configured with the internal SD Card disabled from BIOS/Platform Configuration (RBSU) and an HPE Dual SD card installed would not boot from the HPE Dual SD card USB Module when configured in Legacy Boot Mode. This issue does not impact systems configured in UEFI Boot Mode.
- Addressed an issue where a system configured with an optional HPE CN1200E-T adapter would not boot properly when configured in Legacy Boot Mode. This issue does not impact systems configured in UEFI Boot Mode.
- Addressed an issue where systems configured with HPE s100i Software RAID may experience a failed RAID volume on a system reset.

Online ROM Flash Component for Linux - System ROM U41

Version: 1.40_06-15-2018 (Optional)

Enhancements

- Added support to decode certain Machine Check Exceptions to a specific failing PCIe device. Previous versions of the System ROM would log a generic Machine Check event to the Integrated Management Log (IML) for these error events.
- Added a new BIOS/Platform Configuration (RBSU) Memory Controller Interleaving menu. This option allows disabling memory controller interleaving which may improve memory performance for systems configured with an unbalanced memory configuration.
- Added a new BIOS/Platform Configuration (RBSU) Processor Jitter Control Optimization menu for Jitter Smoothing Support. This new optimization setting allows customers to choose between optimizing Auto-tuned mode for maximum throughput performance, low latency, or the default - zero latency.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform

Configuration options.

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

Fixes

・ Addressed an issue where systems may experience an 389-Unexpected Shutdown and Restart, logged in the iLO Integrated Management Log (IML). This issue is not unique to Hitachi servers.

・ Addressed an issue where the Embedded Diagnostics may not launch properly when the UEFI POST Discovery Mode option is set to Force Fast Discovery.

・ Addressed an issue where the Integrated Management Log (IML) Viewer in the System Utilities menu may become unresponsive when launched.

・ Addressed an issue where the HPE Dual SD Card USB Module may not boot properly when the UEFI POST Discovery Mode option is set to Force Fast Discovery.

・ Addressed an issue where the Trusted Platform Module (TPM) Firmware update may not complete properly when the TPM is configured for TPM 2.0 Mode. This issue does not impact systems configured with a TPM operating in TPM 1.2 mode.

・ Addressed an issue where the system may not be able to boot to Intelligent Provisioning when a third party USB Key was installed in one of the server USB Ports. This issue was seen with a specific USB Key and has not been seen with other devices.

・ Addressed an issue where Integrated Lights-Out (iLO) Virtual Media may not boot properly when the UEFI POST Discovery Mode option is set to Force Full Discovery.

・ Addressed an issue where the system may become unresponsive during POST or experience a Red Screen on the next boot following an I/O Machine Check Failure at runtime.

・ Addressed an issue where a system configured with the internal SD Card disabled from BIOS/Platform Configuration (RBSU) and an HPE Dual SD card installed would not boot from the HPE Dual SD card USB Module when configured in Legacy Boot Mode. This issue does not impact systems configured in UEFI Boot Mode.

・ Addressed an issue where a system configured with an optional HPE CN1200E-T adapter would not boot properly when configured in Legacy Boot Mode. This issue does not impact systems configured in UEFI Boot Mode.

・ Addressed an issue where systems configured with HPE s100i Software RAID may experience a failed RAID volume on a system reset.

Online ROM Flash Component for Windows x64 - OEM System ROM U34

Version: 1.40_06-15-2018 (Optional)

Enhancements

・ Added support to decode certain Machine Check Exceptions to a specific failing PCIe device. Previous versions of the System ROM would log a generic Machine Check event to the Integrated Management Log (IML) for these error events.

・ Added a new BIOS/Platform Configuration (RBSU) Memory Controller Interleaving menu. This option

allows disabling memory controller interleaving which may improve memory performance for systems configured with an unbalanced memory configuration.

· Added a new BIOS/Platform Configuration (RBSU) Processor Jitter Control Optimization menu for Jitter Smoothing Support. This new optimization setting allows customers to choose between optimizing Auto-tuned mode for maximum throughput performance, low latency, or the default - zero latency.

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

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

Fixes

· Addressed an issue where systems may experience an 389-Unexpected Shutdown and Restart, logged in the iLO Integrated Management Log (IML). This issue is not unique to Hitachi servers.

· Addressed an issue where the Embedded Diagnostics may not launch properly when the UEFI POST Discovery Mode option is set to Force Fast Discovery.

· Addressed an issue where the Integrated Management Log (IML) Viewer in the System Utilities menu may become unresponsive when launched.

· Addressed an issue where the HPE Dual SD Card USB Module may not boot properly when the UEFI POST Discovery Mode option is set to Force Fast Discovery.

· Addressed an issue where the Trusted Platform Module (TPM) Firmware update may not complete properly when the TPM is configured for TPM 2.0 Mode. This issue does not impact systems configured with a TPM operating in TPM 1.2 mode.

· Addressed an issue where the system may not be able to boot to Intelligent Provisioning when a third party USB Key was installed in one of the server USB Ports. This issue was seen with a specific USB Key and has not been seen with other devices.

· Addressed an issue where Integrated Lights-Out (iLO) Virtual Media may not boot properly when the UEFI POST Discovery Mode option is set to Force Full Discovery.

· Addressed an issue where the system may become unresponsive during POST or experience a Red Screen on the next boot following an I/O Machine Check Failure at runtime.

· Addressed an issue where a system configured with the internal SD Card disabled from BIOS/Platform Configuration (RBSU) and an HPE Dual SD card installed would not boot from the HPE Dual SD card USB Module when configured in Legacy Boot Mode. This issue does not impact systems configured in UEFI Boot Mode.

· Addressed an issue where a system configured with an optional HPE CN1200E-T adapter would not boot properly when configured in Legacy Boot Mode. This issue does not impact systems configured in UEFI Boot Mode.

· Addressed an issue where systems configured with HPE s100i Software RAID may experience a failed RAID volume on a system reset.

· Added a new Power Supply Redundancy Message to inform a user of running a system configured with four power supplies in an invalid Power Supply Redundancy Mode such as 1+1 Redundancy Mode.

Online ROM Flash Component for Windows x64 - System ROM U30

Version: 1.40_06-15-2018 (Optional)

Enhancements

- Added support to decode certain Machine Check Exceptions to a specific failing PCIe device. Previous versions of the System ROM would log a generic Machine Check event to the Integrated Management Log (IML) for these error events.
- Added a new BIOS/Platform Configuration (RBSU) Memory Controller Interleaving menu. This option allows disabling memory controller interleaving which may improve memory performance for systems configured with an unbalanced memory configuration.
- Added a new BIOS/Platform Configuration (RBSU) Processor Jitter Control Optimization menu for Jitter Smoothing Support. This new optimization setting allows customers to choose between optimizing Auto-tuned mode for maximum throughput performance, low latency, or the default - zero latency.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.
- Updated the language translations (non-English modes) for System Utilities.

Fixes

- Addressed an issue where systems may experience an 389-Unexpected Shutdown and Restart, logged in the iLO Integrated Management Log (IML). This issue is not unique to Hitachi servers.
- Addressed an issue where the Embedded Diagnostics may not launch properly when the UEFI POST Discovery Mode option is set to Force Fast Discovery.
- Addressed an issue where the Integrated Management Log (IML) Viewer in the System Utilities menu may become unresponsive when launched.
- Addressed an issue where a system configured for HPE Scalable Persistent Memory may not properly log a backup failure event to the Integrated Management Log (IML).
- Addressed an issue where the HPE Dual SD Card USB Module may not boot properly when the UEFI POST Discovery Mode option is set to Force Fast Discovery.
- Addressed an issue where the Trusted Platform Module (TPM) Firmware update may not complete properly when the TPM is configured for TPM 2.0 Mode. This issue does not impact systems configured with a TPM operating in TPM 1.2 mode.
- Addressed an issue where the system may not be able to boot to Intelligent Provisioning when a third party USB Key was installed in one of the server USB Ports. This issue was seen with a specific USB Key and has not been seen with other devices.
- Addressed an issue where Integrated Lights-Out (iLO) Virtual Media may not boot properly when the UEFI POST Discovery Mode option is set to Force Full Discovery.
- Addressed an issue where the system may become unresponsive during POST or experience a Red Screen on the next boot following an I/O Machine Check Failure at runtime.
- Addressed an issue where a system configured with the internal SD Card disabled from BIOS/Platform Configuration (RBSU) and an HPE Dual SD card installed would not boot from the HPE Dual SD card USB Module when configured in Legacy Boot Mode. This issue does not impact systems configured in UEFI

Boot Mode.

- Addressed an issue where a system configured with an optional HPE CN1200E-T adapter would not boot properly when configured in Legacy Boot Mode. This issue does not impact systems configured in UEFI Boot Mode.

- Addressed an issue where systems configured with HPE s100i Software RAID may experience a failed RAID volume on a system reset.

- Addressed an issue where systems configured for Scalable Persistent Memory may not function properly after changing certain BIOS/Platform Configuration (RBSU) Settings such as Intel TXT support. Previously these configuration changes could have led to a loss of persistent data.

Online ROM Flash Component for Windows x64 - System ROM U32

Version: 1.40_06-15-2018 (Optional)

Enhancements

- Added support to decode certain Machine Check Exceptions to a specific failing PCIe device. Previous versions of the System ROM would log a generic Machine Check event to the Integrated Management Log (IML) for these error events.

- Added a new BIOS/Platform Configuration (RBSU) Memory Controller Interleaving menu. This option allows disabling memory controller interleaving which may improve memory performance for systems configured with an unbalanced memory configuration.

- Added a new BIOS/Platform Configuration (RBSU) Processor Jitter Control Optimization menu for Jitter Smoothing Support. This new optimization setting allows customers to choose between optimizing Auto-tuned mode for maximum throughput performance, low latency, or the default - zero latency.

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

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

Fixes

- Addressed an issue where systems may experience an 389-Unexpected Shutdown and Restart, logged in the iLO Integrated Management Log (IML). This issue is not unique to Hitachi servers.

- Addressed an issue where the Embedded Diagnostics may not launch properly when the UEFI POST Discovery Mode option is set to Force Fast Discovery.

- Addressed an issue where the Integrated Management Log (IML) Viewer in the System Utilities menu may become unresponsive when launched.

- Addressed an issue where the HPE Dual SD Card USB Module may not boot properly when the UEFI POST Discovery Mode option is set to Force Fast Discovery.

- Addressed an issue where the Trusted Platform Module (TPM) Firmware update may not complete properly when the TPM is configured for TPM 2.0 Mode. This issue does not impact systems configured with a TPM operating in TPM 1.2 mode.

- Addressed an issue where the system may not be able to boot to Intelligent Provisioning when a third

party USB Key was installed in one of the server USB Ports. This issue was seen with a specific USB Key and has not been seen with other devices.

・ Addressed an issue where Integrated Lights-Out (iLO) Virtual Media may not boot properly when the UEFI POST Discovery Mode option is set to Force Full Discovery.

・ Addressed an issue where the system may become unresponsive during POST or experience a Red Screen on the next boot following an I/O Machine Check Failure at runtime.

・ Addressed an issue where a system configured with the internal SD Card disabled from BIOS/Platform Configuration (RBSU) and an HPE Dual SD card installed would not boot from the HPE Dual SD card USB Module when configured in Legacy Boot Mode. This issue does not impact systems configured in UEFI Boot Mode.

・ Addressed an issue where a system configured with an optional HPE CN1200E-T adapter would not boot properly when configured in Legacy Boot Mode. This issue does not impact systems configured in UEFI Boot Mode.

・ Addressed an issue where systems configured with HPE s100i Software RAID may experience a failed RAID volume on a system reset.

Online ROM Flash Component for Windows x64 - System ROM U41

Version: 1.40_06-15-2018 (Optional)

Enhancements

・ Added support to decode certain Machine Check Exceptions to a specific failing PCIe device. Previous versions of the System ROM would log a generic Machine Check event to the Integrated Management Log (IML) for these error events.

・ Added a new BIOS/Platform Configuration (RBSU) Memory Controller Interleaving menu. This option allows disabling memory controller interleaving which may improve memory performance for systems configured with an unbalanced memory configuration.

・ Added a new BIOS/Platform Configuration (RBSU) Processor Jitter Control Optimization menu for Jitter Smoothing Support. This new optimization setting allows customers to choose between optimizing Auto-tuned mode for maximum throughput performance, low latency, or the default - zero latency.

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

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

Fixes

・ Addressed an issue where systems may experience an 389-Unexpected Shutdown and Restart, logged in the iLO Integrated Management Log (IML). This issue is not unique to Hitachi servers.

・ Addressed an issue where the Embedded Diagnostics may not launch properly when the UEFI POST Discovery Mode option is set to Force Fast Discovery.

・ Addressed an issue where the Integrated Management Log (IML) Viewer in the System Utilities menu may become unresponsive when launched.

- Addressed an issue where the HPE Dual SD Card USB Module may not boot properly when the UEFI POST Discovery Mode option is set to Force Fast Discovery.

- Addressed an issue where the Trusted Platform Module (TPM) Firmware update may not complete properly when the TPM is configured for TPM 2.0 Mode. This issue does not impact systems configured with a TPM operating in TPM 1.2 mode.

- Addressed an issue where the system may not be able to boot to Intelligent Provisioning when a third party USB Key was installed in one of the server USB Ports. This issue was seen with a specific USB Key and has not been seen with other devices.

- Addressed an issue where Integrated Lights-Out (iLO) Virtual Media may not boot properly when the UEFI POST Discovery Mode option is set to Force Full Discovery.

- Addressed an issue where the system may become unresponsive during POST or experience a Red Screen on the next boot following an I/O Machine Check Failure at runtime.

- Addressed an issue where a system configured with the internal SD Card disabled from BIOS/Platform Configuration (RBSU) and an HPE Dual SD card installed would not boot from the HPE Dual SD card USB Module when configured in Legacy Boot Mode. This issue does not impact systems configured in UEFI Boot Mode.

- Addressed an issue where a system configured with an optional HPE CN1200E-T adapter would not boot properly when configured in Legacy Boot Mode. This issue does not impact systems configured in UEFI Boot Mode.

- Addressed an issue where systems configured with HPE s100i Software RAID may experience a failed RAID volume on a system reset.

Identifiers for Intel Xeon Processor Scalable Family for Windows Server 2012 R2 and Server 2016

Version: 10.1.2.86 (B) (Optional)

Fixes

Corrected a potential installation failure that could occur when Windows Device Guard is enabled.

HPE Broadcom NX1 1Gb Driver for Windows Server x64 Editions

Version: 212.0.0.0 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.1.3.0 or later, for use with this driver.

Fixes

This driver corrects an issue which results in a Windows Stop Error (0x133) when the system is operating in a heavily stressed environment.

Enhancements

The component installer for this package is now digitally signed.

Supported Devices and Features

This driver supports the following network adapters:

HP 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 332T Adapter

HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 6 x86_64

Version: 3.137w-1 (Optional)

Important Note!

HPE recommends the firmware provided in HPE NX1 Broadcom Online Firmware Upgrade Utility for Linux x86_64, version 2.21.3 or later, for use with these drivers.

Fixes

This product addresses a traffic stop seen when running ping flood and iperf3 tests.

Supported Devices and Features

These drivers support the following network adapters:

HP Ethernet 1Gb 4-port 331i Adapter (22BE)

HP Ethernet 1Gb 4-port 331FLR Adapter

HP Ethernet 1Gb 4-port 331T Adapter

HP Ethernet 1Gb 2-port 332T Adapter

HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64

Version: 3.137w-1 (Optional)

Important Note!

HPE recommends the firmware provided in HPE NX1 Broadcom Online Firmware Upgrade Utility for Linux x86_64, version 2.21.3 or later, for use with these drivers.

Fixes

This product addresses a traffic stop seen when running ping flood and iperf3 tests.

Enhancements

Supported Devices and Features

These drivers support the following network adapters:

HP Ethernet 1Gb 4-port 331i Adapter (22BE)

HP Ethernet 1Gb 4-port 331FLR Adapter

HP Ethernet 1Gb 4-port 331T Adapter

HP Ethernet 1Gb 2-port 332T Adapter

HPE Intel E1R Driver for Windows Server 2016

Version: 12.15.184.0 (B) (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server

x64 Editions, version 5.1.0.4 or later, for use with this driver.

Enhancements

Some of the devices supported by this product have been rebranded.

Supported Devices and Features

This driver supports the following HPE Intel E1R network adapters:

HPE Ethernet 1Gb 2-port 361T Adapter

HPE Ethernet 1Gb 4-port 366i Communication Board

HPE Ethernet 1Gb 4-port 366FLR Adapter

HPE Ethernet 1Gb 4-port 366T Adapter

HPE Intel i40e Drivers for Red Hat Enterprise Linux 6 x86_64

Version: 2.4.6.1-4 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86_64,

version 1.15.9 or later, for use with these drivers.

Fixes

This product corrects an error seen when a submodule is being updated.

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 1Gb 4-port 369i Adapter

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

HPE Ethernet 10Gb 2-port 562SFP+ Adapter

HPE Intel i40e Drivers for Red Hat Enterprise Linux 7 x86_64

Version: 2.4.6.1-4 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86_64,

version 1.15.9 or later, for use with these drivers.

Fixes

This product corrects an error seen when a submodule is being updated.

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 1Gb 4-port 369i Adapter

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

HPE Ethernet 10Gb 2-port 562SFP+ Adapter

HPE Intel i40ea Driver for Windows Server 2012 R2

Version: 1.8.94.0 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.1.3.0 or later, for use with this driver.

Fixes

This driver corrects an issue which results in a Windows Stop Error (BSOD) when the system is operating in a heavily stressed iSCSI environment.

Supported Devices and Features

This product supports the following network adapters:

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

HPE Ethernet 10Gb 2-port 562SFP+ Adapter

HPE Intel i40ea Driver for Windows Server 2016

Version: 1.8.94.0 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.1.3.0 or later, for use with this driver.

Fixes

This driver corrects an issue which results in a Windows Stop Error (BSOD) when the system is operating in a heavily stressed iSCSI environment.

Supported Devices and Features

This product supports the following network adapters:

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

HPE Ethernet 10Gb 2-port 562SFP+ Adapter

HPE Intel i40eb Driver for Windows Server 2012 R2

Version: 1.8.94.0 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.1.3.0 or later, for use with this driver.

Fixes

This driver corrects an issue which results in a Stop Error (0x133) when the system is operating in a heavily stressed environment.

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 1Gb 4-port 369i Adapter

HPE Intel i40eb Driver for Windows Server 2016

Version: 1.8.94.0 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.1.3.0 or later, for use with this driver.

Fixes

This driver corrects an issue which results in a Stop Error (0x133) when the system is operating in a heavily stressed environment.

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 1Gb 4-port 369i Adapter

HPE Intel i40evf Drivers for Red Hat Enterprise Linux 6 x86_64

Version: 3.5.6.1-5 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.15.9 or later, for use with these drivers.

Fixes

This product corrects an error seen when a submodule is being updated.

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 1Gb 4-port 369i Adapter

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

HPE Ethernet 10Gb 2-port 562SFP+ Adapter

HPE Intel i40evf Drivers for Red Hat Enterprise Linux 7 x86_64

Version: 3.5.6.1-5 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86_64,

version 1.15.9 or later, for use with these drivers.

Fixes

This product corrects an error seen when a submodule is being updated.

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 1Gb 4-port 369i Adapter

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

HPE Ethernet 10Gb 2-port 562SFP+ Adapter

HPE Intel igb Drivers for Red Hat Enterprise Linux 6 x86_64

Version: 5.3.5.15-4 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.15.9 or later, for use with these drivers.

Enhancements

This product is updated to maintain compatibility with firmware version 1.15.x.

Supported Devices and Features

These drivers support the following Intel network adapters:

HP Ethernet 1Gb 2-port 361T Adapter

HP Ethernet 1Gb 4-port 366FLR Adapter

HPE Ethernet 1Gb 4-port 366i Communication Board

HP Ethernet 1Gb 4-port 366T Adapter

HPE Intel igb Drivers for Red Hat Enterprise Linux 7 x86_64

Version: 5.3.5.15-4 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.15.9 or later, for use with these drivers.

Enhancements

This product is updated to maintain compatibility with firmware version 1.15.x.

Supported Devices and Features

These drivers support the following Intel network adapters:

HP Ethernet 1Gb 2-port 361T Adapter

HP Ethernet 1Gb 4-port 366FLR Adapter

HPE Ethernet 1Gb 4-port 366i Communication Board

HP Ethernet 1Gb 4-port 366T Adapter

HPE Intel ixgbe Drivers for Red Hat Enterprise Linux 6 x86_64

Version: 5.3.5.1-5 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.15.9 or later, for use with these drivers.

Fixes

This product corrects an issue with obtaining a link automatically after swapping SFP+ modules of different speeds.

Supported Devices and Features

These drivers support the following network adapters:

HPE Ethernet 10Gb 2-port 562FLR-T Adapter

HPE Ethernet 10Gb 2-port 562T Adapter

HPE Intel ixgbe Drivers for Red Hat Enterprise Linux 7 x86_64

Version: 5.3.5.1-5 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.15.9 or later, for use with these drivers.

Fixes

This product corrects an issue with obtaining a link automatically after swapping SFP+ modules of different speeds.

Supported Devices and Features

These drivers support the following network adapters:

HPE Ethernet 10Gb 2-port 562FLR-T Adapter

HPE Ethernet 10Gb 2-port 562T Adapter

HPE Intel ixgbevf Drivers for Red Hat Enterprise Linux 6 x86_64

Version: 4.3.3.1-5 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.15.9 or later, for use with these drivers.

Fixes

This product addresses an issue where the number of supported virtual functions reported by the sriov_totalvfs parameter is incorrect.

Supported Devices and Features

These drivers support the following network adapters:

HPE Ethernet 10Gb 2-port 562FLR-T Adapter

HPE Ethernet 10Gb 2-port 562T Adapter

HPE Intel ixgbevf Drivers for Red Hat Enterprise Linux 7 x86_64

Version: 4.3.3.1-5 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.15.9 or later, for use with these drivers.

Fixes

This product addresses an issue where the number of supported virtual functions reported by the sriov_totalvfs parameter is incorrect.

Supported Devices and Features

These drivers support the following network adapters:

HPE Ethernet 10Gb 2-port 562FLR-T Adapter

HPE Ethernet 10Gb 2-port 562T Adapter

HPE Intel ixs Driver for Windows Server 2012 R2

Version: 3.14.75.0 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.1.2.2 or later, for use with this driver.

Enhancements

This driver is updated to maintain compatibility with latest NDIS drivers.

Supported Devices and Features

This driver supports the following network adapters:

HPE Ethernet 10Gb 2-port 562FLR-T Adapter

HPE Ethernet 10Gb 2-port 562T Adapter

HPE Intel ixs Driver for Windows Server 2016

Version: 4.1.74.0 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.1.2.2 or later, for use with this driver.

Enhancements

This driver is updated to maintain compatibility with latest NDIS drivers.

Supported Devices and Features

>This driver supports the following network adapters:

>HPE Ethernet 10Gb 2-port 562FLR-T Adapter

>HPE Ethernet 10Gb 2-port 562T Adapter

HPE Intel v40e Driver for Windows Server 2012 R2

>Version: 1.5.76.0 (Optional)

Important Note!

>HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server

>x64 Editions, version 5.1.3.0 or later, for use with this driver.

Prerequisites

>This driver requires host driver version 1.8.90.0 or later.

Fixes

>This driver now requires host driver version 1.8.90.0 or later.

Supported Devices and Features

>This product supports the following HPE Intel i40ea network adapters:

>HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter

>HPE Ethernet 10Gb 2-port 562SFP+ Adapter

HPE Intel v40e Driver for Windows Server 2016

>Version: 1.5.76.0 (Optional)

Important Note!

>HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server

>x64 Editions, version 5.1.3.0 or later, for use with this driver.

Prerequisites

>This driver requires host driver version 1.8.90.0 or later.

Fixes

>This driver now requires host driver version 1.8.90.0 or later.

Supported Devices and Features

>This product supports the following HPE Intel i40ea network adapters:

>HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter

>HPE Ethernet 10Gb 2-port 562SFP+ Adapter

HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 6 x86_64

>Version: 7.14.46-1 (Optional)

Important Note!

HPE recommends the firmware provided in HPE QLogic NX2 Online Firmware Upgrade Utility for Linux x86_64, version 2.22.15 or later, for use with these drivers.

Fixes

This product corrects an error seen when creating a vlan interface in QinQ vlan mode.

This product corrects an issue seen when setting PVID priority in vlan mode.

This product corrects an error seen when getting traffic from a SR-IOV VM to a Virt-IO VM through the same physical function (PF).

This product corrects an error where a system crash occurs when reading cnic sfp data.

This product corrects an issue seen when updating the bnx2i driver.

Supported Devices and Features

These drivers support the following network adapters:

HP Ethernet 10Gb 2-port 530SFP+ Adapter

HP Ethernet 10Gb 2-port 530T Adapter

HP Ethernet 10Gb 2-port 533FLR-T Adapter

HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 7 x86_64

Version: 7.14.46-1 (Optional)

Important Note!

HPE recommends the firmware provided in HPE QLogic NX2 Online Firmware Upgrade Utility for Linux x86_64, version 2.22.15 or later, for use with these drivers.

Fixes

This product corrects an error seen when creating a vlan interface in QinQ vlan mode.

This product corrects an issue seen when setting PVID priority in vlan mode.

This product corrects an error seen when getting traffic from a SR-IOV VM to a Virt-IO VM through the same physical function (PF).

This product corrects an error where a system crash occurs when reading cnic sfp data.

This product corrects an issue seen when updating the bnx2i driver.

This product corrects an issue seen when setting PVID for VFs in rhel7u4 using the ip tool.

Enhancements

Supported Devices and Features

These drivers support the following network adapters:

HP Ethernet 10Gb 2-port 530SFP+ Adapter

HP Ethernet 10Gb 2-port 530T Adapter

HP Ethernet 10Gb 2-port 533FLR-T Adapter

HPE QLogic NX2 10/20 GbE Multifunction Drivers for Windows Server x64 Editions

Version: 7.13.145.0 (Optional)

Important Note!

HP recommends the firmware provided in HPE QLogic NX2 Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.1.3.0 or later, for use with these drivers.

Fixes

This driver corrects an issue which results in a "MissingPFDriver" message appearing in Get-NetAdapterSriov command output.

Supported Devices and Features

This driver supports the following network adapters:

HP Ethernet 10Gb 2-port 530SFP+ Adapter

HP Ethernet 10Gb 2-port 530T Adapter

HP Ethernet 10Gb 2-port 533FLR-T Adapter

HPE Smart Array S100i SR Gen10 SW RAID Driver for Windows Server 2012 R2 and Windows Server 2016

Version: 62.2.20.64 (A) (Recommended)

Important Note!

Customers who already have firmware version 62.2.20.64 installed do not need to update to 62.2.20.64(A).

Enhancements

Added HPE Digital Signature

HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 6 (64-bit)

Version: 1.1.4-125 (Recommended)

Fixes

In rare cases, the driver might stop responding when using NCQ SATA drives.

Supported Devices and Features

SUPPORTED KERNELS:

The kernels of Red Hat Enterprise Linux 6 (64-bit) supported by this driver rpm are:

2.6.32-696.el6 - Red Hat Enterprise Linux 6 Update 9(64-bit) and future errata kernels for update 9.

HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)

Version: 1.1.4-125 (A) (Recommended)

Fixes

In rare cases, the driver might stop responding when using NCQ SATA drives.

Enhancements

Added support for Red Hat Enterprise Linux 7.4.

Note: If driver version 1.1.4-125 was previously installed, then it is not necessary to upgrade to version 1.1.4-125(A).

Supported Devices and Features

SUPPORTED KERNELS:

The kernels of Red Hat Enterprise Linux7 (64-bit) supported by this binary rpm are:

3.10.0-693.el7- Red Hat Enterprise Linux 7 Update 4 (64-bit) and future errata kernels for update 4.

HPE Smart Array Gen10 Controller Driver for Windows Server 2012 R2 and Windows Server 2016

Version: 100.62.0.64 (Recommended)

Fixes

Microsoft Windows Server 2016 fails cluster validation test.

Windows "Removal Policy" incorrectly set to TRUE.

HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Windows 2012, Windows 2012R2 and Windows 2016

Version: 11.4.334.7 (Recommended)

Important Note!

Release Notes:

HPE StoreFabric Emulex Adapters Release Notes

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

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

To obtain the guide:

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

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

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

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

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 11.4.334.7

Removed the raw driver file folder. 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¥win2012

Supported Devices and Features

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

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

HPE StoreFabric SN1200E 16Gb 2P FC HBA

HPE StoreFabric SN1200E 16Gb 1P FC HBA

HPE StoreFabric SN1600E 32Gb 2p FC HBA

HPE StoreFabric SN1600E 32Gb 1p FC HBA

HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Windows Server 2012 and 2012 R2

Version: 9.2.8.20 (Recommended)

Important Note!

Release Notes:

HPE StoreFabric 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/

Fixes

This driver version resolves the following :

Switch name server entry, Port Symbols are displayed with dots at the end

Non-descriptive Device name in Windows

Request_Driver_Plogi(Port Login) Retry Delay

Unexpected behavior of FC(Fibre Channel) speed - When transfer sizes above 8MB(MegaByte) are

attempted, performance drops to almost zero by making mixed mode (I/O Control Block type 6 and 7)

default and used IOCB (I/O Control Block) type 6 when IO(Input Output) size > 128K (> 0x20 segments)

Enhancements

Updated the driver to version 9.2.8.20

Added support for the following:

Added ABTS (Abort Sequence) handling for passthru (pass through) ELS (Extended Link Services) to

prevent FW (firmware) resource leak

Updated RISC(Reduced Instruction Set Computer) FW (Firmware) to version 8.07.00 for 8G Adapters

Driver always responds to RDP (Read Diagnostic Parameter) with full payload (new version of FW (firmware) will split it into multiple frames if there is no login session)

Added new DPORT (Destination Port) diagnostic API (Application Program Interface) interface to return detailed codes

Removed Echo only restriction for ELS (Extended Link Services) pass through

Added GFO (Get Fabric Object) and LUN (Logical Unit) level QoS (Quality of Service) support

Added ELS (Extended Link Services) passthru (pass through) interface

Supported Devices and Features

This driver supports the following HPE adapters:

16Gb FC:

HP StoreFabric SN1100Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter

HP StoreFabric SN1100Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter

32Gb FC:

HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter

HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

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HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Windows Server 2016

Version: 9.2.8.20 (Recommended)

Important Note!

Release Notes:

HPE StoreFabric 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/

Fixes

This driver version resolves the following :

Switch name server entry, Port Symbols are displayed with dots at the end

Non-descriptive Device name in Windows

Request_Driver_Plogi(Port Login) Retry Delay

Unexpected behavior of FC(Fibre Channel) speed - When transfer sizes above 8MB(MegaByte) are attempted, performance drops to almost zero by making mixed mode (I/O Control Block type 6 and 7) default and used IOCB (I/O Control Block) type 6 when IO(Input Output) size > 128K (> 0x20 segments)

Enhancements

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Added GFO (Get Fabric Object) and LUN (Logical Unit) level QoS (Quality of Service) support

Added ELS (Extended Link Services) passthru (pass through) interface

Supported Devices and Features

This driver supports the following HPE adapters:

16Gb FC:

HP StoreFabric SN1100Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter

HP StoreFabric SN1100Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter

32Gb FC:

HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter

HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

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Red Hat Enterprise Linux 6 Server (x86-64) FC Driver Kit for HPE Qlogic and mezzanine Host Bus Adapters

Version: 8.08.00.07.06.0-k1 (Recommended)

Important Note!

Release Notes

HPE StoreFabric QLogic Adapters Release Notes

Note: 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/

Fixes

This driver version resolves the following:

Mask off Scope bits in retry delay.

Track if INQ (Inquiry) was sent, and send INQ (Inquiry) to all LUNs (Logical Unit).

Prevent re_login trigger from sending too many commands

Prevent multiple active discovery commands per session

Correction to non-existent fabric name.

Remove RDP (Read Diagnostic Parameter) response size cropping for logged out port.

Fix supported speed ranges in FDMI/RDP (Fabric Device Management Interface /Read Diagnostic Parameter).

GPID (Get Node Identification) Data unexpected terminations.

Re-login for N-port Handle in use.

Re-login is being triggered too fast.

Reported supported link speeds.

Add correction to fc (Fibre Channel) host stats (Statistics).

Enhancements

Updated to version 8.08.00.07.06.0-k1

Added support for the following:

Handle cases for limiting Read Diagnostic Parameter (RDP) response payload length.

Add fabric priority QoS (Quality of Service) lun (Logical Unit) IOCB (I/O Control Block) mechanism.

Implement CT (Common Transport) command GFO (Get Fabric Object)

Retry switch command on timed out.

Add short name for SFP (Small Form-Factor Pluggable) range auto detect.

Add ability to auto detect SFP (Small Form-Factor Pluggable) type.

Add support for fabric priority per target.

Allow Storage Name Service (SNS) fabric login to be retried.

Increase the login retry count to 30.

Supported Devices and Features

This driver supports the following HPE adapters:

16Gb FC:

HP StoreFabric SN1100Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter

HP StoreFabric SN1100Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter

32Gb FC:

HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter

HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

Red Hat Enterprise Linux 6 Server (x86-64) Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and mezzanine Host Bus Adapters

Version: 11.4.334.12 (Recommended)

Important Note!

Release Notes:

HPE StoreFabric Emulex Adapters Release Notes

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

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

To obtain the guide:

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

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

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

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

Prerequisites

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

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

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

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

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

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

Enhancements

Updated to driver version 11.4.334.12

Supported Devices and Features

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

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

HPE StoreFabric SN1200E 16Gb 2P FC HBA

HPE StoreFabric SN1200E 16Gb 1P FC HBA

HPE StoreFabric SN1600E 32Gb 2p FC HBA

HPE StoreFabric SN1600E 32Gb 1p FC HBA

Red Hat Enterprise Linux 7 Server FC Driver Kit for HPE QLogic and mezzanine Host Bus Adapters

Version: 8.08.00.07.07.5-k1 (Recommended)

Important Note!

Release Notes:

HPE StoreFabric QLogic Adapters Release Notes

Note: 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/

Fixes

This driver version resolves the following:

Mask off Scope bits in retry delay.

Track if INQ (Inquiry) was sent, and send INQ (Inquiry) to all LUNs (Logical Unit).

Prevent re_login trigger from sending too many commands

Prevent multiple active discovery commands per session

Correction to non-existent fabric name.

Remove RDP (Read Diagnostic Parameter) response size cropping for logged out port.

Fix supported speed ranges in FDMI/RDP (Fabric Device Management Interface /Read Diagnostic Parameter).

GPID (Get Node Identification) Data unexpected terminations.

Re-login for N-port Handle in use.

Re-login is being triggered too fast.

Reported supported link speeds.

Add correction to fc (Fibre Channel) host stats (Statistics).

Enhancements

Updated driver to version 8.08.00.07.07.5-k1

Added support for the following:

Handle cases for limiting Read Diagnostic Parameter (RDP) response payload length.

Add fabric priority QoS (Quality of Service) lun (Logical Unit) IOCB (I/O Control Block) mechanism.

Implement CT (Common Transport) command GFO (Get Fabric Object)

Retry switch command on timed out.

Add short name for SFP (Small Form-Factor Pluggable) range auto detect.

Add ability to auto detect SFP (Small Form-Factor Pluggable) type.

Add support for fabric priority per target.

Allow Storage Name Service (SNS) fabric login to be retried.

Increase the login retry count to 30.

Supported Devices and Features

This driver supports the following HPE adapters:

16Gb FC:

HP StoreFabric SN1100Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter

HP StoreFabric SN1100Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter

32Gb FC:

HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter

HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

Red Hat Enterprise Linux 7 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and mezzanine Host Bus Adapters

Version: 11.4.334.12 (Recommended)

Important Note!

Release Notes:

HPE StoreFabric Emulex Adapters Release Notes

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

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

To obtain the guide:

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

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

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

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

Prerequisites

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

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

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

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

To obtain the guide:

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

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

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

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

Enhancements

Updated to driver version 11.4.334.12

Supported Devices and Features

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

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

HPE StoreFabric SN1200E 16Gb 2P FC HBA

HPE StoreFabric SN1200E 16Gb 1P FC HBA

HPE StoreFabric SN1600E 32Gb 2p FC HBA

HPE StoreFabric SN1600E 32Gb 1p FC HBA

HPE NVDIMM-N Drivers for Microsoft Windows Server 2012 and 2012 R2

Version: 2.0.0.2 (Recommended)

Enhancements

These NVDIMM-N drivers enable support for Persistent Memory technology on select HPE Servers running Microsoft Windows Server 2012 and 2012 R2.

Added support for HPE 16GB NVDIMM devices.

Changed block sector size from 512B to 4096B. Old data won't be accessible and must be backed up first if it needs to be preserved.

For more information about Persistent Memory technology offered on HPE Servers, please consult the following links:

https://www.hpe.com/us/en/servers/persistent-memory.html

http://h20195.www2.hpe.com/V2/GetDocument.aspx?docname=4AA6-4681ENW&cc=us&lc=en

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iLO 5 Automatic Server Recovery Driver for Windows Server 2012 R2

Version: 4.2.0.0 (B) (Optional)

Important Note!

Installing the iLO 5 Channel Interface Driver, version 4.1.0.0 or earlier, will overwrite this driver. To avoid the overwrite, use version 4.1.0.0(B) or later of the iLO 5 Channel Interface Driver.

Enhancements

Added support for the HPE ProLiant DL325 Gen10.

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iLO 5 Automatic Server Recovery Driver for Windows Server 2016

Version: 4.2.0.0 (B) (Optional)

Important Note!

Installing the iLO 5 Channel Interface Driver, version 4.1.0.0 or earlier, will overwrite this driver. To avoid the overwrite, use version 4.1.0.0(B) or later of the iLO 5 Channel Interface Driver.

Enhancements

Added support for the HPE ProLiant DL325 Gen10.

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iLO 5 Channel Interface Driver for Windows Server 2012 R2

Version: 4.3.0.0 (Optional)

Enhancements

Enabled message-signaled interrupts to avoid interrupt sharing with the Universal Serial Bus controller in iLO 5.

Added support for the HPE ProLiant DL325 Gen10.

iLO 5 Channel Interface Driver for Windows Server 2016

Version: 4.3.0.0 (Optional)

Enhancements

Enabled message-signaled interrupts to avoid interrupt sharing with the Universal Serial Bus controller in iLO 5.

Added support for the HPE ProLiant DL325 Gen10.

Matrox G200eH3 Video Controller Driver for Windows Server 2012 R2

Version: 9.15.1.184 (B) (Optional)

Enhancements

Added support for the HPE ProLiant DL325 Gen10.

Matrox G200eH3 Video Controller Driver for Windows Server 2016

Version: 9.15.1.184 (B) (Optional)

Enhancements

Added support for the HPE ProLiant DL325 Gen10.

Language Pack - Japanese

Version: 1.30 (Recommended)

Enhancements

N/A

Language Pack - Japanese

Version: 1.30 (Optional)

Prerequisites

Requires iLO 5 firmware version 1.10 or higher

Enhancements

N/A

Online ROM Flash Component for Linux - iLO 5

Version: 1.30 (a) (Recommended)

Fixes

Update release

Online ROM Flash Component for Windows x64 - iLO 5

Version: 1.30 (a) (Recommended)

Fixes

Not applicable

HPE Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64

Version: 2.21.3 (Optional)

Important Note!

HPE recommends HPE Broadcom tg3 Ethernet Drivers, versions 3.137w-1 or later, for use with this firmware.

Prerequisites

This package requires the appropriate driver for your network adapter be installed and all Ethernet ports brought up (ifup ethX or ifconfig ethX up) before firmware can be updated.

Fixes

This product addresses an issue where the NIC Serial Number for the HPE Ethernet 1Gb 4-port 331FLR Adapter is not displayed in AHS.
The firmware in this product addresses an issue where the "Reboot Required" icon is not highlighted after a NIC firmware update (via System Utilities->Embedded Application->Firmware Update) completes.

Supported Devices and Features

This product supports the following network adapters:

HP 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 332T Adapter

HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions

Version: 5.1.3.0 (Optional)

Important Note!

HPE recommends HPE Broadcom 1Gb Driver for Windows Server x64 Editions, version 212.0.0.0 or later, for use with this firmware.

Prerequisites

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

Fixes

This product addresses an issue where the NIC Serial Number for the HPE Ethernet 1Gb 4-port 331FLR Adapter is not displayed in AHS.

The firmware in this product addresses an issue where the "Reboot Required" icon is not highlighted after a NIC firmware update (via System Utilities->Embedded Application->Firmware Update) completes.

Supported Devices and Features

This product supports the following network adapters:

HP 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 332T Adapter

HPE Intel Online Firmware Upgrade Utility for Linux x86_64

Version: 1.15.9 (Optional)

Important Note!

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

HPE Intel igb Drivers for Linux, versions 5.3.5.15 or later

HPE Intel ixgbe Drivers for Linux , versions 5.3.5.1 or later

HPE Intel i40e Drivers for Linux, versions 2.4.6 or later

Prerequisites

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

Fixes

This product addresses a NIC VLAN ID issue seen in the NIC Human Interface Infrastructure (HII) menu when operating in UEFI mode.

This product addresses a teaming issue where the HPE Ethernet 10Gb 2-port 561T Adapter still shows connected on the switch after the NIC has been disabled.

This product addresses a link issue and a PXE issue seen with the HPE Ethernet 10Gb 2-port 560FLB Adapter.

This product addresses a WOL issue seen with the HPE Ethernet 1Gb 4-port 366T Adapter.

Supported Devices and Features

This package supports the following network adapters:

HP Ethernet 1Gb 2-port 361T Adapter

HP Ethernet 1Gb 4-port 366FLR Adapter

HPE Ethernet 1Gb 4-port 366i Communication Board

HP Ethernet 1Gb 4-port 366T 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 562T Adapter

HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions

Version: 5.1.3.0 (Optional)

Important Note!

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

HPE Intel E1R Driver for Windows Server 2012, versions 12.14.8.0 or later

HPE Intel E1R Driver for Windows Server 2016, version 12.15.184.0(B) or later

HPE Intel ixn Driver for Windows Server 2012, versions 3.14.76.0 or later

HPE Intel ixn Driver for Windows Server 2016, version 4.1.74.0 or later

HPE Intel ixs Driver for Windows Server 2012 R2, version 3.14.75.0 or later

HPE Intel ixs Driver for Windows Server 2016, version 4.1.74.0 or later

HPE Intel ixt Driver for Windows Server 2012, versions 3.14.76.0 or later

HPE Intel ixt Driver for Windows Server 2016, version 4.1.74.0 or later

HPE Intel i40ea Driver for Windows, versions 1.8.94.0 or later

HPE Intel i40eb Driver for Windows, versions 1.8.94.0 or later

Prerequisites

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

Fixes

This product addresses a NIC VLAN ID issue seen in the NIC Human Interface Infrastructure (HII) menu when operating in UEFI mode.

This product addresses a teaming issue where the HPE Ethernet 10Gb 2-port 561T Adapter still shows connected on the switch after the NIC has been disabled.

This product addresses a link issue and a PXE issue seen with the HPE Ethernet 10Gb 2-port 560FLB Adapter.

This product addresses a WOL issue seen with the HPE Ethernet 1Gb 4-port 366T Adapter.

Supported Devices and Features

This package supports the following network adapters:

HP Ethernet 1Gb 2-port 361T Adapter

HP Ethernet 1Gb 4-port 366FLR Adapter

HPE Ethernet 1Gb 4-port 366i Communication Board

HP Ethernet 1Gb 4-port 366T 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 562T Adapter

HPE QLogic NX2 Online Firmware Upgrade Utility for Linux x86_64

Version: 2.22.15 (Optional)

Important Note!

HPE recommends HPE QLogic NX2 10/20GbE Multifunction Drivers for Linux, versions 7.14.46-1 or later, for use with the firmware in this package.

Prerequisites

This package requires the appropriate driver for your network adapter be installed and all Ethernet ports brought up (ifup ethX or ifconfig ethX up) before firmware can be updated.

Fixes

This product corrects an issue where users may see an error message when they attempt to restore the adapter's configuration settings to defaults by pressing F7 under the 'System Utilities->System Configuration' menu.

Supported Devices and Features

This product supports the following network adapters:

HP Ethernet 10Gb 2-port 530SFP+ Adapter

HP Ethernet 10Gb 2-port 530T Adapter

HP Ethernet 10Gb 2-port 533FLR-T Adapter

HPE QLogic NX2 Online Firmware Upgrade Utility for Windows Server x64 Editions

Version: 5.1.3.0 (Optional)

Important Note!

HPE recommends HPE QLogic NX2 10/20GbE Multifunction Drivers for Windows Server x64 Editions, version 7.13.145.0 or later, for use with this firmware.

Prerequisites

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

Fixes

This product corrects an issue where users may see an error message when they attempt to restore the adapter's configuration settings to defaults by pressing F7 under the 'System Utilities->System Configuration' menu.

Supported Devices and Features

This product supports the following network adapters:

HP Ethernet 10Gb 2-port 530SFP+ Adapter

HP Ethernet 10Gb 2-port 530T Adapter

HP Ethernet 10Gb 2-port 533FLR-T Adapter

Online ROM Flash for Linux - Advanced Power Capping Microcontroller Firmware for servers using Intel Xeon Scalable 3100/4100/5100/6100/8100 series Processors

> Version: 1.0.4 (Optional)

Enhancements

> Version 1.0.4

Online ROM Flash for Windows x64 - Advanced Power Capping Microcontroller Firmware for servers using Intel Xeon Scalable 3100/4100/5100/6100/8100 series Processors

> Version: 1.0.4 (Optional)

Enhancements

> Version 1.0.4

Online ROM Flash Component for Windows (x64) - EG000600JWEBH and EG000300JWEBF Drives

> Version: HPD3 (B) (Recommended)

Important Note!

> Online firmware flashing of drives attached to an HPE Smart Array controller running in Zero Memory (ZM) mode or an HPE ProLiant 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 SPP and HP SUM.
> Customers who already installed firmware version HPD3 do not need to update to HPD3(B).

Fixes

> Added FW binary unencrypted

Enhancements

> Added support for SmartRAID 3154-8e RAID controller.
> Added support for Windows Server 2016 Device Guard.

Online ROM Flash Component for Windows (x64) - EG001800JWJNR and EG002400JWJNT Drives

> Version: HPD1 (Recommended)

Important Note!

> Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or a ProLiant 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 includes a fix for an issue that could cause timeout errors during certain sequential write corner cases. There is also a fix for slow response time during random write workloads.

Enhancements

Added support for Windows Server 2016 Device Guard.

Online ROM Flash Component for Windows (x64) - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB, and EG1200JEMDA Drives

Version: HPD6 (B) (Recommended)

Important Note!

Online firmware flashing of drives attached to an HPE Smart Array controller running in Zero Memory (ZM) mode or an HPE ProLiant 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 SPP and HP SUM.

Customers who already installed firmware version HPD6 do not need to update to HPD6(B).

Fixes

Added FW binary unencrypted

Enhancements

Added support for Windows Server 2016 Device Guard.

Added support for SmartRAID 3154-8e RAID controller.

Online ROM Flash Component for Windows (x64) - EG1800JEMDB Drives

Version: HPD5 (Recommended)

Fixes

This firmware includes a fix for slow performance during sequential write workloads with small queue depth.

Enhancements

Added support for SmartRAID 3154-8e RAID controller.

Added support for Windows Server 2016 Device Guard.

Online ROM Flash Component for Windows (x64) - EH000300JWCPK, EH000600JWCPL, and EH000900JWCPN Drives

Version: HPD3 (B) (Recommended)

Important Note!

Online firmware flashing of drives attached to an HPE Smart Array controller running in Zero Memory (ZM)

mode or an HPE ProLiant 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 SPP and HP SUM.

Customers who already installed firmware version HPD3 do not need to update to HPD3(B).

Fixes

Added FW binary unencrypted

Enhancements

Added support for SmartRAID 3154-8e RAID controller.

Added support for Windows Server 2016 Device Guard.

Online ROM Flash Component for Windows (x64) - EO000400JWDKP,EO000800JWDKQ,EO001600JWDKR,MO000400JWDKU,MO000800JWDKV,MO001600JWDLA and MO003200JWDLB Drives

Version: HPD1 (B) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM)
mode or a ProLiant 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 firmware version HPD1 do not need to update to HPD1(B).

Enhancements

- Added support for Windows Server 2016 Device Guard.

Online ROM Flash Component for Windows (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP, and MB4000JVYZQ Drives

Version: HPD2 (B) (Recommended)

Important Note!

Online firmware flashing of drives attached to an HPE Smart Array controller running in Zero Memory (ZM)
mode or an HPE ProLiant 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 SPP and HP SUM.

Customers who already installed firmware version HPD2 do not need to update to HPD2(B).

Enhancements

Added support for Windows Server 2016 Device Guard.

Online ROM Flash Component for Windows (x64) - MB6000JVYYV Drives

Version: HPD2 (B) (Recommended)

Important Note!

Online firmware flashing of drives attached to an HPE Smart Array controller running in Zero Memory (ZM) mode or an HPE ProLiant 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 SPP and HP SUM.

Customers who already installed firmware version HPD2 do not need to update to HPD2(B).

Enhancements

Added support for Windows Server 2016 Device Guard.

Online ROM Flash Component for Windows (x64) - MB8000JFECQ Drives

Version: HPD7 (Recommended)

Important Note!

Online firmware flashing of drives attached to an HPE Smart Array controller running in Zero Memory (ZM) mode or an HPE ProLiant 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 SPP and HP SUM.

Fixes

This firmware includes a fix for slow performance during sequential write workloads with small queue depth.

Enhancements

Added support for Windows Server 2016 Device Guard.

Online ROM Flash Component for Windows (x64) - MM1000JEFRB and MM2000JEFRC Drives

Version: HPD8 (Optional)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or a ProLiant 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 allows the drive to meet the requirements for Azure Stack certification.

This firmware contains a change to the reported drive serial number in VPD page 80. It will now report the same as is displayed on the drive label. Any removed characters are replaced with blank place holders so the log format will not be changed.

Enhancements

Added support for Windows Server 2016 Device Guard.

Online ROM Flash Component for Windows (x64) - MM1000JFJTH Drives

Version: HPD3 (Optional)

Important Note!

Online firmware flashing of drives attached to an HPE Smart Array controller running in Zero Memory (ZM) mode or an HPE ProLiant 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 SPP and HP SUM.

Fixes

This firmware allows the drive to meet the requirements for Azure Stack certification.

This firmware contains a change to the reported drive serial number in VPD page 80. It will now report the same as is displayed on the drive label. Any removed characters are replaced with blank place holders so the log format will not be changed.

Enhancements

▪ Added support for Windows Server 2016 Device Guard.

Supplemental Update / Online ROM Flash Component for Linux (x64) - EG000600JWEBH and EG000300JWEBF Drives

Version: HPD3 (B) (Recommended)

Important Note!

Online firmware flashing of drives attached to an HPE Smart Array controller running in Zero Memory (ZM) mode or an HPE ProLiant 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 SPP and HP SUM.

Customers who already installed firmware version HPD3 do not need to update to HPD3(B).

Fixes

Added FW binary unencrypted

Enhancements

Added support for SmartRAID 3154-8e RAID controller.

Added support for HPE Smart Array P824i-p MR Gen10 Controller.

Supplemental Update / Online ROM Flash Component for Linux (x64) - EG001800JWJNR and EG002400JWJNT Drives

Version: HPD1 (Recommended)

Fixes

This firmware includes a fix for an issue that could cause timeout errors during certain sequential write corner cases. There is also a fix for slow response time during random write workloads.

Enhancements

- Added support for HPE Smart Array P824i-p MR Gen10 Controller.

Supplemental Update / Online ROM Flash Component for Linux (x64) - EO000400JWDKP,EO000800JWDKQ,EO001600JWDKR,MO000400JWDKU,MO000800JWDKV,MO001600JWDLA and MO003200JWDLB Drives

Version: HPD1 (B) (Recommended)

Important Note!

Online firmware flashing of drives attached to an HPE Smart Array controller running in Zero Memory (ZM) mode or an HPE ProLiant 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 SPP and HP SUM.

Enhancements

- Added support for HPE Smart Array P824i-p MR Gen10 controller.

Supplemental Update / Online ROM Flash Component for Linux (x64) - MM1000JEFRB and MM2000JEFRC Drives

Version: HPD8 (Optional)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or a ProLiant 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.

<u>**Fixes**</u>

This firmware allows the drive to meet the requirements for Azure Stack certification.

This firmware contains a change to the reported drive serial number in VPD page 80. It will now report the same as is displayed on the drive label. Any removed characters are replaced with blank place holders so the log format will not be changed.

<u>**Enhancements**</u>

Added support for HPE Smart Array P824i-p MR Gen10 Controller.

Supplemental Update / Online ROM Flash Component for Linux (x64) - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB, and EG1200JEMDA Drives

Version: HPD6 (C) (Recommended)

<u>**Important Note!**</u>

Online firmware flashing of drives attached to an HPE Smart Array controller running in Zero Memory (ZM) mode or an HPE ProLiant 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 SPP and HP SUM.

Customers who already installed firmware version HPD6 do not need to update to HPD6(C).

<u>**Fixes**</u>

Added FW binary unencrypted

<u>**Enhancements**</u>

Added support for SmartRAID 3154-8e RAID controller.

Added support for HPE Smart Array P824i-p MR Gen10 Controller.

Supplemental Update / Online ROM Flash Component for Linux (x64) - EG1800JEMDB Drives

Version: HPD5 (B) (Recommended)

<u>**Important Note!**</u>

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or a ProLiant 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 firmware version HPD5 do not need to update to HPD5(B).

Enhancements

- Added support for HPE Smart Array P824i-p MR Gen10 Controller.

Supplemental Update / Online ROM Flash Component for Linux (x64) - EH000300JWCPK, EH000600JWCPL, and EH000900JWCPN Drives

Version: HPD3 (B) (Recommended)

Important Note!

Online firmware flashing of drives attached to an HPE Smart Array controller running in Zero Memory (ZM) mode or an HPE ProLiant 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 SPP and HP SUM.

Customers who already installed firmware version HPD3 do not need to update to HPD3(B).

Fixes

Added FW binary unencrypted

Enhancements

Added support for SmartRAID 3154-8e RAID controller.

Added support for HPE Smart Array P824i-p MR Gen10 Controller.

Supplemental Update / Online ROM Flash Component for Linux (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP, and MB4000JVYZQ Drives

Version: HPD2 (B) (Recommended)

Important Note!

Online firmware flashing of drives attached to an HPE Smart Array controller running in Zero Memory (ZM) mode or an HPE ProLiant 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 SPP and HP SUM.

Customers who already installed firmware version HPD2 do not need to update to HPD2(B).

Enhancements

Added support for SmartRAID 3154-8e RAID controller.

Added support for HPE Smart Array P824i-p MR Gen10 Controller.

Supplemental Update / Online ROM Flash Component for Linux (x64) - MB6000JVYYV Drives

Version: HPD2 (B) (Recommended)

Important Note!

Online firmware flashing of drives attached to an HPE Smart Array controller running in Zero Memory (ZM) mode or an HPE ProLiant 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 SPP and HP SUM.

Customers who already installed firmware version HPD2 do not need to update to HPD2(B).

Enhancements

Added support for SmartRAID 3154-8e RAID controller.

Added support for HPE Smart Array P824i-p MR Gen10 Controller.

Supplemental Update / Online ROM Flash Component for Linux (x64) - MB8000JFECQ Drives

Version: HPD7 (Recommended)

Important Note!

Online firmware flashing of drives attached to an HPE Smart Array controller running in Zero Memory (ZM) mode or an HPE ProLiant 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 SPP and HP SUM.

Fixes

This firmware includes a fix for slow performance during sequential write workloads with small queue depth.

Enhancements

Added support for SmartRAID 3154-8e RAID controller.

Added support for HPE Smart Array P824i-p MR Gen10 Controller.

Supplemental Update / Online ROM Flash Component for Linux (x64) - MM1000JFJTH Drives

Version: HPD3 (Optional)

Important Note!

Online firmware flashing of drives attached to an HPE Smart Array controller running in Zero Memory (ZM) mode or an HPE ProLiant 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 SPP and HP SUM.

Fixes

This firmware allows the drive to meet the requirements for Azure Stack certification.

This firmware contains a change to the reported drive serial number in VPD page 80. It will now report the same as is displayed on the drive label. Any removed characters are replaced with blank place holders so the log format will not be changed.

Enhancements

Added support for SmartRAID 3154-8e RAID controller.

Added support for HPE Smart Array P824i-p MR Gen10 Controller.

Online ROM Flash Component for Windows (x64) - MB001000GWCBC and MB002000GWCBD Drives

Version: HPG4 (C) (Recommended)

Important Note!

Online firmware flashing of drives attached to an HPE Smart Array controller running in Zero Memory (ZM) mode or an HPE ProLiant 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 SPP and HP SUM.

Customers who already installed firmware version HPG4 do not need to update to HPG4(C).

Enhancements

Added support for Windows Server 2016 Device Guard.

Online ROM Flash Component for Windows (x64) - MB001000GWFWK and MB002000GWFWL Drives

Version: HPG4 (C) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or a ProLiant 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 firmware version HPG4 do not need to update to HPG4(C).

Enhancements

Added support for Windows Server 2016 Device Guard.

Online ROM Flash Component for Windows (x64) - MB002000GWFGH and MB001000GWFGF Drives

Version: HPG3 (Optional)

Important Note!

Online firmware flashing of drives attached to an HPE Smart Array controller running in Zero Memory (ZM) mode or an HPE ProLiant 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 SPP and HP SUM.

Fixes

This firmware has a change that allows the drive to meet the requirements for Azure Stack certification.

Enhancements

Added support for Windows Server 2016 Device Guard.

Online ROM Flash Component for Windows (x64) - MB006000GWBXQ and MB008000GWBYL Drives

Version: HPG5 (C) (Recommended)

Important Note!

Online firmware flashing of drives attached to an HPE Smart Array controller running in Zero Memory (ZM) mode or an HPE ProLiant 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 SPP and HP SUM.

Customers who already installed firmware version HPG5 do not need to update to HPG5(C).

Enhancements

Added support for Windows Server 2016 Device Guard.

Online ROM Flash Component for Windows (x64) - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH, and MB4000GVYZK Drives

Version: HPG4 (C) (Recommended)

Important Note!

Online firmware flashing of drives attached to an HPE Smart Array controller running in Zero Memory (ZM) mode or an HPE ProLiant 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 SPP and HP SUM.

Customers who already installed firmware version HPG4 do not need to update to HPG4(C).

Enhancements

Added support for Windows Server 2016 Device Guard.

Online ROM Flash Component for Windows (x64) - MB8000GFECR Drives

Version: HPG5 (B) (Recommended)

Important Note!

Online firmware flashing of drives attached to an HPE Smart Array controller running in Zero Memory (ZM) mode or an HPE ProLiant 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 SPP and HP SUM.

Customers who already installed firmware version HPG5 do not need to update to HPG5(B).

Enhancements

Added support for Windows Server 2016 Device Guard.

Online ROM Flash Component for Windows (x64) - MM1000GEFQV and MM2000GEFRA Drives

Version: HPG5 (B) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or a ProLiant 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 firmware version HPG5 do not need to update to HPG5 (B).

Fixes

Added FW binary unencrypted

Enhancements

Added support for Windows Server 2016 Device Guard.

Added support for SmartRAID 3154-8e RAID controller.

Online ROM Flash Component for Windows (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK, and MK001920GWHRU Drives

Version: HPG6 (B) (Recommended)

Important Note!

Online firmware flashing of drives attached to an HPE Smart Array controller running in Zero Memory (ZM) mode or an HPE ProLiant 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 SPP and HP SUM.

Customers who already installed firmware version HPDG6 do not need to update to HPG6(B).

Enhancements

Added support for Windows Server 2016 Device Guard.

Supplemental Update / Online ROM Flash Component for Linux (x64) - MB001000GWCBC and MB002000GWCBD Drives

Version: HPG4 (C) (Recommended)

Important Note!

Online firmware flashing of drives attached to an HPE Smart Array controller running in Zero Memory (ZM) mode or an HPE ProLiant 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 SPP and HP SUM.

Customers who already installed firmware version HPG4 do not need to update to HPG4(c).

Enhancements

Added support for SmartRAID 3154-8e RAID controller.

Added support for HPE Smart Array P824i-p MR Gen10 Controller.

Supplemental Update / Online ROM Flash Component for Linux (x64) - MB001000GWFWK and MB002000GWFWL Drives

Version: HPG4 (C) (Recommended)

Important Note!

Online firmware flashing of drives attached to an HPE Smart Array controller running in Zero Memory (ZM) mode or an HPE ProLiant 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 SPP and HP SUM.

Customers who already installed firmware version HPG4 do not need to update to HPG4(C).

Enhancements

> Added support for SmartRAID 3154-8e RAID controller.
>
> Added support for HPE Smart Array P824i-p MR Gen10 Controller.

Supplemental Update / Online ROM Flash Component for Linux (x64) - MB002000GWFGH and MB001000GWFGF Drives

> Version: HPG3 (Recommended)

Important Note!

> Online firmware flashing of drives attached to an HPE Smart Array controller running in Zero Memory (ZM) mode or an HPE ProLiant 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 SPP and HP SUM.

Fixes

> This firmware has a change that allows the drive to meet the requirements for Azure Stack certification.

Enhancements

> Added support for HPE Smart Array P824i-p MR Gen10 controller.

Supplemental Update / Online ROM Flash Component for Linux (x64) - MB006000GWBXQ and MB008000GWBYL Drives

> Version: HPG5 (C) (Recommended)

Important Note!

> Online firmware flashing of drives attached to an HPE Smart Array controller running in Zero Memory (ZM) mode or an HPE ProLiant 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 SPP and HP SUM.
>
> Customers who already installed firmware version HPG5 do not need to update to HPG5(C).

Enhancements

> Added support for SmartRAID 3154-8e RAID controller.
>
> Added support for HPE Smart Array P824i-p MR Gen10 Controller.

Supplemental Update / Online ROM Flash Component for Linux (x64) - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH, and MB4000GVYZK Drives

> Version: HPG4 (C) (Recommended)

Important Note!

Online firmware flashing of drives attached to an HPE Smart Array controller running in Zero Memory (ZM) mode or an HPE ProLiant 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 SPP and HP SUM.

Customers who already installed firmware version HPG4 do not need to update to HPG4(C).

Enhancements

Added support for SmartRAID 3154-8e RAID controller.

Added support for HPE Smart Array P824i-p MR Gen10 Controller.

Supplemental Update / Online ROM Flash Component for Linux (x64) - MB8000GFECR Drives

Version: HPG5 (B) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or a ProLiant 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 firmware version HPG5 do not need to update to HPG5(B).

Enhancements

Added support for SmartRAID 3154-8e RAID controller.

Added support for HPE Smart Array P824i-p MR Gen10 Controller.

Supplemental Update / Online ROM Flash Component for Linux (x64) - MM1000GEFQV and MM2000GEFRA Drives

Version: HPG5 (B) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or a ProLiant 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 firmware version HPG5 do not need to update to HPG5 (B).

Fixes

Added FW binary unencrypted

Enhancements

Added support for SmartRAID 3154-8e RAID controller.

Added support for HPE Smart Array P824i-p MR Gen10 Controller.

Supplemental Update / Online ROM Flash Component for Linux (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK, and MK001920GWHRU Drives

Version: HPG6 (B) (Recommended)

Important Note!

Online firmware flashing of drives attached to an HPE Smart Array controller running in Zero Memory (ZM) mode or an HPE ProLiant 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 SPP and HP SUM.

Fixes

Firmware improves a NAND threshold level to strengthen differentiation of NAND states to mitigate excessive reallocation of NAND Blocks (Grown Bad Blocks). For important information about this resolved issue, refer to HPE Customer Bulletin a00027721.

Enhancements

- Added support for HPE Smart Array P824i-p MR Gen10 Controller.

Online ROM Flash Component for Windows (x64) - HPE 12Gb/s SAS Expander Firmware for HPE Smart Array Controllers and HPE HBA Controllers

Version: 4.02 (B) (Optional)

Important Note!

Customers who already have firmware version 4.02 installed do not need to update to 4.02 (B).

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

Enhancements

Added HPE Digital Signature

Online ROM Flash Component for Windows (x64) - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10

Version: 1.05 (Optional)

Enhancements

Initial OEM firmware release for HPE P/E-Class SR Gen10 controllers.

Supplemental Update / Online ROM Flash Component for Linux (x64) - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10

Version: 1.05 (Optional)

Enhancements

Initial OEM firmware release for HPE P/E-Class SR Gen10 controllers.

Supplemental Update / Online ROM Flash Component for Linux (x64) – HPE 12Gb/s SAS Expander Firmware for HPE Smart Array Controllers and HPE HBA Controllers

Version: 4.02 (Optional)

Important Note!

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

Fixes

Changed the Enclosure's Target and LUN address to the appropriate unique values. Previously these addresses would conflict with the SATA drive in bay #1 which interfered with software defined storage solutions such as Storage Spaces Direct.

HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Linux (x64)

Version: 2018.06.01 (Recommended)

Important Note!

Release Notes:

HPE StoreFabric Emulex Adapters Release Notes

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

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

To obtain the guide:

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

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

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

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

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 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.

The Enablement Kit requires that the target environment have the libHBAAPI package installed from your OS installation media.

Install the FC Driver Kit, reboot, and then install the Enablement Kit.

Additional requirements:

Environment must be running the syslog daemon for the flash engine to run

Environment must have 32-bit netlink library (libnl.so) installed for component to be able to discover Emulex Host Bus Adapters(HBAs)

Enhancements

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

Added support to the following:

8G Standup and Mezzanine:

BIOS:

Fabric assigned Boot Target/Logical Unit (LUN) to Fabric Assgined World Wide Name(FAWWN)

Updated 16/32 Gb HBA/Mezz universal boot

Updated 16Gb HBA/Mezz universal boot

Updated 8Gb HBA/Mezz universal boot

Contains:

16/32 Gb HBA/Mezz universal boot 11.4.334.10

16 Gb HBA/Mezz universal boot 11.4.334.11

8 Gb standup/mezz firmware 2.10X6

8 Gb standup/mezz universal boot image 11.40a13 (11.4.305.0 BIOS, 11.4.344.0 UEFI)

Supported Devices and Features

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

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

HPE StoreFabric SN1200E 16Gb 2P FC HBA

HPE StoreFabric SN1200E 16Gb 1P FC HBA

HPE StoreFabric SN1600E 32Gb 2p FC HBA

HPE StoreFabric SN1600E 32Gb 1p FC HBA

HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Windows 2012/2012 R2/2016 x64

Version: 2018.06.01 (Recommended)

Important Note!

Release Notes:

HPE StoreFabric Emulex Adapters Release Notes

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

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

To obtain the guide:

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

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

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

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

Prerequisites

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

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

The HPE supplied Emulex 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

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

Added support to the following:

8G Standup and Mezzanine:

BIOS:

Fabric assigned Boot Target/Logical Unit (LUN) to Fabric Assgined World Wide Name(FAWWN)

Updated 16/32 Gb HBA/Mezz universal boot

Updated 16Gb HBA/Mezz universal boot

Updated 8Gb HBA/Mezz universal boot

Contains:

16/32 Gb HBA/Mezz universal boot 11.4.334.10

16 Gb HBA/Mezz universal boot 11.4.334.11

8 Gb standup/mezz firmware 2.10X6

8 Gb standup/mezz universal boot image 11.40a13 (11.4.305.0 BIOS, 11.4.344.0 UEFI)

Supported Devices and Features

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

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

HPE StoreFabric SN1200E 16Gb 2P FC HBA

HPE StoreFabric SN1200E 16Gb 1P FC HBA

HPE StoreFabric SN1600E 32Gb 2p FC HBA

HPE StoreFabric SN1600E 32Gb 1p FC HBA

HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Linux (x86_64)

Version: 2018.06.01 (Recommended)

Important Note!

Release Notes:

HPE StoreFabric QLogic Adapter Release Notes

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 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.

Fixes

Fixed the following

8Gb Standup & 8Gb Mezzanine

UEFI

Firmware Management Protocol now supports flashing older Multiboot versions.

Firmware Management Protocol SetImage no longer displays dots on the screen.

The following HII (Human Interface Infrastructure) fields now require a reboot after value change:

Legacy BIOS (Basic Input Output System) Selectable Boot

16Gb Standup & 16Gb Mezzanine

Firmware

Bring up up-link in 32G or 16G optical environment (FEC (Forward Error Correction) only) when connected

with remote device that is not setting the SN bit to zero and TC bit to 1 at the same time during the speed

negotiation phase and delays transmitting NOS during LQT phase.

Dropped FCP_CMD frame by a virtual port (VP index greater than 0) logged into the fabric via Fabric Login

(FLOGI) while the primary adapter port (VP0) was disabled via Global VP (Virtual Port) Options bit 2 of

Initialize Multi-ID Firmware MBC (0048h).

UEFI

Firmware Management Protocol now supports flashing older Multiboot versions.

Firmware Management Protocol SetImage no longer displays dots on the screen.

The following HII (Human Interface Infrastructure) fields now require a reboot after value change:

Fabric Assigned WWPN (World Wide Port Name), Fabric Assigned Boot Logical Unit (LUN), Legacy BIOS (Basic Input Output System) Selectable Boot.

16Gb/32Gb Standup

Firmware

Bring up up-link in 32G or 16G optical environment (FEC (Forward Error Correction) only) when connected with remote device that is not setting the SN bit to zero and TC bit to 1 at the same time during the speed negotiation phase and delays transmitting NOS during LQT phase.

UEFI

Firmware Management Protocol now supports flashing older Multiboot versions.

Firmware Management Protocol SetImage no longer displays dots on the screen.

The following HII (Human Interface Infrastructure) fields now require a reboot after value change:

FC (Fibre Channel) Tape, Fabric Assigned WWPN (World Wide Port Name), Fabric Assigned Boot LUN (Logical Unit), Legacy BIOS (Basic Input Output System) Selectable Boot.

Changed Legacy BIOS (Basic Input Output System) Selectable Boot HII (Human Interface Infrastructure) default to Enabled.

Enhancements

Added support for the following:

16Gb Standup & 16Gb Mezzanine

Power Loss calculation in D_port (Destination port) operation.

16Gb/32Gb Standup

Power Loss calculation in D_port (Destination port) operation.

Support maximum training timeout for 32Gbps data rate per FC-FS-4 (Fibre Channel Framing and Signaling) specification.

Updated the Firmware/BIOS/UEFI packages for 8 Gb, 16 Gb and 32 Gb products.

8 Gb HBA/Mezz

Package 3.77.08

Firmware 8.07.00

UEFI 6.64

BIOS 3.56

16 Gb HBA/Mezz

Package 6.01.59

Firmware 8.07.16

UEFI 6.63

BIOS 3.43

16/32 Gb

Package 01.70.85

Firmware 8.07.18

UEFI 6.47

BIOS 3.54

Supported Devices and Features

This firmware supports the following HPE adapters:

16Gb FC:

HP StoreFabric SN1100Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter

HP StoreFabric SN1100Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter

32Gb FC:

HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter

HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

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HPE Firmware Online Flash for QLogic Fibre Channel Host Bus Adapters - Windows 2012/2012R2/2016 (x86_64)

Version: 2018.06.01 (Recommended)

Important Note!

Release Notes:

HPE StoreFabric 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/

The OOB driver is available on the Service Pack for ProLiant (SPP) which is available at

http://www.hpe.com/servers/spp/download.

Fixes

Fixed the following

8Gb Standup & 8Gb Mezzanine

UEFI

Firmware Management Protocol now supports flashing older Multiboot versions.

Firmware Management Protocol SetImage no longer displays dots on the screen.

The following HII (Human Interface Infrastructure) fields now require a reboot after value change:

Legacy BIOS (Basic Input Output System) Selectable Boot

16Gb Standup & 16Gb Mezzanine

Firmware

Bring up up-link in 32G or 16G optical environment (FEC (Forward Error Correction) only) when connected with remote device that is not setting the SN bit to zero and TC bit to 1 at the same time during the speed negotiation phase and delays transmitting NOS during LQT phase.

Dropped FCP_CMD frame by a virtual port (VP index greater than 0) logged into the fabric via Fabric Login (FLOGI) while the primary adapter port (VP0) was disabled via Global VP (Virtual Port) Options bit 2 of Initialize Multi-ID Firmware MBC (0048h).

UEFI

Firmware Management Protocol now supports flashing older Multiboot versions.

Firmware Management Protocol SetImage no longer displays dots on the screen.

The following HII (Human Interface Infrastructure) fields now require a reboot after value change:
Fabric Assigned WWPN (World Wide Port Name), Fabric Assigned Boot Logical Unit (LUN), Legacy BIOS (Basic Input Output System) Selectable Boot.

16Gb/32Gb Standup

Firmware

Bring up up-link in 32G or 16G optical environment (FEC (Forward Error Correction) only) when connected with remote device that is not setting the SN bit to zero and TC bit to 1 at the same time during the speed negotiation phase and delays transmitting NOS during LQT phase.

UEFI

Firmware Management Protocol now supports flashing older Multiboot versions.

Firmware Management Protocol SetImage no longer displays dots on the screen.

The following HII (Human Interface Infrastructure) fields now require a reboot after value change:
FC (Fibre Channel) Tape, Fabric Assigned WWPN (World Wide Port Name), Fabric Assigned Boot LUN (Logical Unit), Legacy BIOS (Basic Input Output System) Selectable Boot.

Changed Legacy BIOS (Basic Input Output System) Selectable Boot HII (Human Interface Infrastructure) default to Enabled.

Enhancements

Added support for the following:

16Gb Standup & 16Gb Mezzanine

Power Loss calculation in D_port (Destination port) operation.

16Gb/32Gb Standup

Power Loss calculation in D_port (Destination port) operation.

Support maximum training timeout for 32Gbps data rate per FC-FS-4 (Fibre Channel Framing and Signaling) specification.

Updated the Firmware/BIOS/UEFI packages for 8 Gb, 16 Gb and 32 Gb products.

8 Gb HBA/Mezz

Package 3.77.08

Firmware 8.07.00

UEFI 6.64

BIOS 3.56

16 Gb HBA/Mezz

Package 6.01.59

Firmware 8.07.16

UEFI 6.63

BIOS 3.43

16/32 Gb

Package 01.70.85

Firmware 8.07.18

UEFI 6.47

BIOS 3.54

Supported Devices and Features

This firmware supports the following HPE adapters:

16Gb FC:

HP StoreFabric SN1100Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter

HP StoreFabric SN1100Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter

32Gb FC:

HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter

HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

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Online Flash Component for Linux - Gen10 NVMe Backplane PIC Firmware

Version: 1.20 (D) (Optional)

Important Note!

Note: After running this component to update the NVMe Backplane PIC firmware, a server reboot is required for iLO to display the new NVMe Backplane PIC firmware version on iLO's Firmware Information page

Prerequisites

iLO 5 version 1.10 or later is required.

Fixes

Firmware Package version 1.20(D) addressed the following issue:

When using OneView, attempts to upgrade firmware from version 1.18 to 1.20 failed.

Note: If the target device was previously updated to firmware version 1.20, it is not necessary to apply firmware update 1.20(D).

Enhancements

The following support was added in version 1.20(C). No new features were added in version 1.20(D).

Added support for the HPE ProLiant XL270d Gen10 Server

Online Flash Component for Windows x64 - Gen10 NVMe Backplane PIC Firmware

Version: 1.20 (C) (Optional)

Important Note!

Note: After running this component to update the NVMe Backplane PIC firmware, a server reboot is required for iLO to display the new NVMe Backplane PIC firmware version on iLO's Firmware Information page

Prerequisites

iLO 5 version 1.10 or later is required.

Fixes

Firmware Package version 1.20(C) addressed the following issue:

When using OneView, attempts to upgrade firmware from version 1.18 to 1.20 failed.

Note: If the target device was previously updated to firmware version 1.20, it is not necessary to apply firmware update 1.20(C).

Enhancements

The following support was added in version 1.20(B). No new features were added in version 1.20(C).

Added support for the HPE ProLiant XL270d Gen10 Server

HP Lights-Out Online Configuration Utility for Linux (AMD64/EM64T)

Version: 5.3.0-0 (Optional)

Prerequisites

This utility requires the following minimum firmware revisions:

Integrated Lights-Out 3 firmware v1.00 or later

Integrated Lights-Out 4 firmware v1.00 or later

Integrated Lights-Out 5 firmware v1.20 or later

The management interface driver and management agents must be installed on the server.

For iLO 5, 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 iLO 5 v1.30.

HP Lights-Out Online Configuration Utility for Windows x64 Editions

Version: 5.2.0.0 (Recommended)

Important Note!

HPONCFG for Windows Server supports iLO in PRODUCTION/HIGH/FIPS security state only.

Prerequisites

This utility requires the following minimum firmware revisions:

Integrated Lights-Out 3 firmware v1.00 or later

Integrated Lights-Out 4 firmware v1.00 or later

Integrated Lights-Out 5 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.

Fixes

Fixed issue where IML and IEL logs were not cleared after doing iLO factory default.

Enhancements

Introduced support for iLO 5 v1.20 or later.

HPE Smart Array SR Event Notification Service for Windows Server 64-bit Editions

Version: 1.0.0.64 (B) (Recommended)

Enhancements

Added support for Microsoft Windows 10

Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux (x86_64)

Version: 3.3-5 (Optional)

Prerequisites

- Requires the following packages to be installed: glibc libgcc libstdc++ bash perl

Enhancements

Updated code for the following:

Emulex CNA Driver display due to split

Optrom version display

HPE Emulex Fibre Channel Enablement Kit for Red Hat Enterprise Linux 6 Server

Version: 11.4.334.2 (Recommended)

Important Note!

Release Notes:

HPE StoreFabric Emulex Adapters Release Notes

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

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

To obtain the guide:

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

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

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

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

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.)

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

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

To obtain the guide:

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

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

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

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

Enhancements

Updated to version 11.4.334.2

Supported Devices and Features

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

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

HPE StoreFabric SN1200E 16Gb 2P FC HBA

HPE StoreFabric SN1200E 16Gb 1P FC HBA

HPE StoreFabric SN1600E 32Gb 2p FC HBA

HPE StoreFabric SN1600E 32Gb 1p FC HBA

HPE Emulex Fibre Channel Enablement Kit for Red Hat Enterprise Linux 7 Server

Version: 11.4.334.2 (Recommended)

Important Note!

Release Notes:

HPE StoreFabric Emulex Adapters Release Notes

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

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

To obtain the guide:

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

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

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

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

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.)

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

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

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

Enhancements

Updated to version 11.4.334.2

Supported Devices and Features

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

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

HPE StoreFabric SN1200E 16Gb 2P FC HBA

HPE StoreFabric SN1200E 16Gb 1P FC HBA

HPE StoreFabric SN1600E 32Gb 2p FC HBA

HPE StoreFabric SN1600E 32Gb 1p FC HBA

HPE Emulex Smart SAN Enablement Kit for Linux

Version: 1.0.0.0-4 (b) (Optional)

Important Note!

To obtain the 3PAR Smart SAN User Guide to go the Storage Information Library at the following link:

Storage Information Library

(http://www.hpe.com/info/storage/docs/)

By default, HP 3PAR Storage is selected under

Products and Solutions.

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 Branded Emulex FC HBAs and mezz cards, version 11.1.183.21, for RedHat 6, RedHat 7, and Novell SUSE 11, SUSE 12

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 (b)

Supported Devices and Features

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

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

HPE StoreFabric SN1200E 16Gb 2P FC HBA

HPE StoreFabric SN1200E 16Gb 1P FC HBA

HPE StoreFabric SN1600E 32Gb 2p FC HBA

HPE StoreFabric SN1600E 32Gb 1p FC HBA

HPE Emulex Smart SAN Enablement Kit for Windows 64 bit operating systems

Version: 1.0.0.1 (f) (Optional)

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.

To obtain the 3PAR Smart SAN User Guide to go the Storage Information Library at the following link:

Storage Information Library

(http://www.hpe.com/info/storage/docs/)

By default, HP 3PAR Storage is selected under

Products and Solutions.

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 v11.1.145.16 cp030886.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 (f)

Supported Devices and Features

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

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

HPE StoreFabric SN1200E 16Gb 2P FC HBA

HPE StoreFabric SN1200E 16Gb 1P FC HBA

HPE StoreFabric SN1600E 32Gb 2p FC HBA

HPE StoreFabric SN1600E 32Gb 1p FC HBA

HPE QLogic Smart SAN enablement kit for Linux

Version: 3.3-3 (b) (Optional)

Important Note!

To obtain the 3PAR Smart SAN User Guide to go the Storage Information Library at the following link:

Storage Information Library

(http://www.hpe.com/info/storage/docs/)

By default, HP 3PAR Storage is selected under

Products and Solutions.

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 6 Server (x86-64) FCoE/FC Driver Kit for HPE Qlogic CNAs, HBAs and mezzanine HBAs, version 8.07.00.42.06.0-k1

Red Hat Enterprise Linux 7 Server FCoE/FC Driver Kit for HPE QLogic CNAs, HBAs and mezzanine HBAs and CNAs, version 8.07.00.42.07.0-k1

SUSE Linux Enterprise Server 11 (AMD64/EM64T) FCoE/FC Driver Kit for HPE Qlogic CNAs, HBAs and mezzanine HBAs, version 8.07.00.42.11.3-k

SUSE Linux Enterprise Server 12 FCoE/FC Driver Kit for HPE QLogic CNAs, HBAs and mezzanine HBAs and CNAs version 8.07.00.42.12.0-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(b)

Supported Devices and Features

This enablement kit is supported on the following HPE adapters:

16Gb FC:

HP StoreFabric SN1100Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter

HP StoreFabric SN1100Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter

32Gb FC:

HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter

HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

HPE QLogic Smart SAN Enablement Kit for Windows 64 bit operating systems

Version: 1.0.0.1 (e) (Optional)

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.

To obtain the 3PAR Smart SAN User Guide to go the Storage Information Library at the following link:

Storage Information Library

(http://www.hpe.com/info/storage/docs/)

By default, HP 3PAR Storage is selected under

Products and Solutions.

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 QLogic Storport Driver v9.2.2.20, cp031252.exe

HPE Storage Fibre Channel Adapter Kit for the QLogic Storport Driver for Windows Server 2012 and 2012 R2 v9.2.2.20, cp031253.exe

HPE Storage Fibre Channel Adapter Kit for the QLogic Storport Driver for Windows Server 2016 version 9.2.2.20, cp031251.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 (e)

Supported Devices and Features

This enablement kit is supported on the following HPE adapters:

16Gb FC:

HP StoreFabric SN1100Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter

HP StoreFabric SN1100Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter

32Gb FC:

HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter

HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

Agentless Management Service (iLO 5) for Red Hat Enterprise Linux 6 Server

Version: 1.3.0 (Optional)

Prerequisites

amsd only supported on HPE ProLiant Gen10 Servers.

amsd provides information to the iLO 5 service providing SNMP support.

SNMP PASS-THRU on the iLO 5 MUST be disabled, and SNMP should be configured on the iLO 5. The iLO 5 may need to be reset after changing these settings.

Requirements:

Minimum iLO 5 Firmware Version = 1.1

Minimum supported OS Versions = Red Hat Enterprise Linux 6.9

Fixes

Fixed the following items:

Better LSB conformance for startup/shutdown scripts

Improve support for multiple SNMP AgentX sub-agents

Improved detection of LogMapSpeedMbps for drivers that do not support NIC speeds in sysfs

Improved support for HPE Smart Array P824i-p MegaRAID SAS controller including support for logical drives

Added checks to ahslog to prevent it from sending too large requests to the iLO

Fixed incorrect cpqNicIfLogMapAdapterOKCount for simple NIC logical devices

Enhancements

New features of amsd version 1.3.0:

iSCSI support in the cpqiScsi MIB handler

Add volume usage to ahslog

Add NIC link monitoring to ahslog

Agentless Management Service (iLO 5) for Red Hat Enterprise Linux 7 Server

Version: 1.3.0 (Optional)

Prerequisites

amsd only supported on HPE Gen10 Servers.

amsd provides information to the iLO 5 service providing SNMP support.

SNMP PASS-THRU on the iLO 5 MUST be disabled, and SNMP should be configured on the iLO 5. The iLO 5 may need to be reset after changing these settings.

Requirements:

Minimum iLO 5 Firmware Version = 1.1

Minimum supported OS Versions = Red Hat Enterprise Linux 7.3 Errata 3.10.0.514.6.1

Fixes

Fixed the following items:

Fix libpci dependencies for amsd installation on Red Hat Enterprise Linux 7.2

Better LSB conformance for startup/shutdown scripts

Improve support for multiple SNMP AgentX sub-agents

Improved detection of LogMapSpeedMbps for drivers that do not support NIC speeds in sysfs

Improved support for HPE Smart Array P824i-p MegaRAID SAS controller including support for logical drives

Added checks to ahslog to prevent it from sending too large requests to the iLO

Fixed incorrect cpqNicIfLogMapAdapterOKCount for simple NIC logical devices

Enhancements

New features of amsd version 1.3.0:

iSCSI support in the cpqiScsi MIB handler

Add volume usage to ahslog

Add NIC link monitoring to ahslog

Agentless Management Service for Windows X64

Version: 1.30.0.0 (Optional)

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 be also be setup. This is not done by "EnableSma.bat".

To disable SMA after it has been enabled, go the 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%.

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

AMS service no longer terminates unexpectedly if the server had more than 9 IPV6 addresses. However, cpqNicIfLogMapIPV6Address OID will only return up to 9 IPV6 addresses.

Traps 1015, 1019,1020 now have correct varbind info, consistent with MIB definitions.

When SMA (System Management Assistant) service is stopped or disabled, SMA will no longer respond to SNMP queries with outdated data.

Enhancements

Added support for the following IO devices:

Added the following enhancements to Control Panel Applet:

Up to 8 trap destinations are supported in SNMP tab, along with user configuration and SNMPv3 settings

SNMP tab is now fully functional if iLO5 encryption is set to HighSecurity or FIPS mode

Button options are available to start, stop, enable or disable SMA service

GUI options are available to select time format and input the optional periodic test trap interval

Help content has expanded

SMA (System Management Assistant) service now supports all MIB OIDs and traps generated by iLO5 FW.

Added support for System Chassis Class of IML Events in Windows Event Log.

iSCSI MIB condition is now available in cpqHoMibHealthStatusArray.

AHS (Active Health System) NIC Link records now contain Interface Description string.

NVMe Drive Eject NMI Fix for Intel Xeon Processor Scalable Family for Windows

Version: 1.1.0.0 (B) (Optional)

Enhancements

Enabled deployment to iLO 5 nodes when used with Smart Update Manager version 8.2.0 or later.

Smart Storage Administrator (SSA) CLI for Linux 64-bit

Version: 3.30.14.0 (Recommended)

Important Note!

It is recommended to update to this 3.30.13.0 version of HPE Smart Storage Administrator if you update your system BIOS using the 2018.06 version of SPP. Any array created with the BIOS configuration utility from the 2018.06 version of SPP will not be accessible with an older version of HPE Smart Storage Administrator.

Enhancements

Added the ability to enable or disable Drive Write Cache for configured and unconfigured drives

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Smart Storage Administrator (SSA) CLI for Windows 64-bit

Version: 3.30.14.0 (Recommended)

Important Note!

It is recommended to update to this 3.30.13.0 version of HPE Smart Storage Administrator if you update

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It is recommended to update to this 3.30.13.0 version of HPE Smart Storage Administrator if you update your system BIOS using the 2018.06 version of SPP. Any array created with the BIOS configuration utility from the 2018.06 version of SPP will not be accessible with an older version of HPE Smart Storage Administrator.

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

Added the ability to enable or disable Drive Write Cache for configured and unconfigured drives

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Smart Storage Administrator (SSA) for Windows 64-bit

Version: 3.30.14.0 (Recommended)

Important Note!

It is recommended to update to this 3.30.13.0 version of HPE Smart Storage Administrator if you update your system BIOS using the 2018.06 version of SPP. Any array created with the BIOS configuration utility from the 2018.06 version of SPP will not be accessible with an older version of HPE Smart Storage Administrator.

Enhancements

Added the ability to enable or disable Drive Write Cache for configured and unconfigured drives

---

Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Linux 64-bit

Version: 3.30.14.0 (Recommended)

Important Note!

It is recommended to update to this 3.30.13.0 version of HPE Smart Storage Administrator if you update your system BIOS using the 2018.06 version of SPP. Any array created with the BIOS configuration utility from the 2018.06 version of SPP will not be accessible with an older version of HPE Smart Storage Administrator.

Enhancements

Added the ability to enable or disable Drive Write Cache for configured and unconfigured drives

---

Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Windows 64-bit

Version: 3.30.14.0 (Recommended)

Important Note!

It is recommended to update to this 3.30.13.0 version of HPE Smart Storage Administrator if you update your system BIOS using the 2018.06 version of SPP. Any array created with the BIOS configuration utility from the 2018.06 version of SPP will not be accessible with an older version of HPE Smart Storage Administrator.
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

Added the ability to enable or disable Drive Write Cache for configured and unconfigured drives