

**HA8000V シリーズ**

**Service Pack for HA8000V (SPH)**

**Version 3.00 33a**

**Readme**

2019年4月

## 1. はじめに

このたびは、日立アドバンスサーバ 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。

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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。

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### 1.3 変更履歴

発行日	変更内容
2018年3月	初版
2018年5月	SUM 使用時の注意事項追記、誤記訂正
2018年8月	注意事項追記、誤記訂正
2019年4月	5.9 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 7.4
- Red Hat(R) Enterprise Linux(R) Server 7.3
- 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 10Gb 2-port 562FLR-T Adapter
  - HPE Ethernet 10Gb 2-port 562T 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、システム装置を安全にご使用いただくためにも、ホームページの[ サポート ]-[ 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 での SPH バージョン表示について

SPH Version 3.00 33a をご使用の場合、SUM(Smart Update Manager)でのバージョン表示が、" 2018.03.22.00 " となります。本表示を、" 3.00 "と読み替えてご使用下さい。

### 5.3 SUM でのランゲージパックバージョン表示について、

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。

### 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 2016	4.2.0.0	cp033122.exe
iLO 5 Automatic Server Recovery Driver for Windows Server 2012 R2	4.2.0.0	cp033121.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_074&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 Linux 環境における Smart Storage Administrator (SSA) 適用時の制限事項

Linux 環境において SPH 3.00 を使用して「Smart Storage Administrator (SSA) for Linux 64-bit」を更新する際は、事前に「Smart Storage Administrator (SSA) for Linux 64-bit」をアンインストールする必要があります。以下の手順にてインストール有無の確認、及びアンインストールを行ってください。

- (1) "rpm -qa | grep ssa"を実行し、「Smart Storage Administrator (SSA) for Linux 64-bit」がインストールされているか確認します。インストールされている場合は

"ssa-3.XX-X.X.x86\_64" が表示されます。

補足："ssacli-3.XX-X.X.x86\_64"、"ssaduccli-3.XX-X.X.x86\_64"も表示される場合がありますが対処の必要はありません。

インストールされていない場合は以降の操作は必要ありません。

(2) 「Smart Storage Administrator (SSA) for Linux 64-bit」がインストールされていた場合は "rpm -e ssa" を実行し、「Smart Storage Administrator (SSA) for Linux 64-bit」をアンインストールしてください。なお、アンインストール後の再起動は必要ありません。

(3) SPH 3.00 を適用し、アップデートを行ってください。

## 5.6 Linux 環境で IPv6 を無効にしている場合、SUM が起動できない事象について

下記記載の OS をご使用になり IPv6 を無効にしている場合、SUM の起動ができない現象が発生することがあります。本現象に遭遇した場合は、IPv6 を有効にしてから SUM を起動してください。

### 【対象OS】

- Red Hat(R) Enterprise Linux(R) Server 7.4
- Red Hat(R) Enterprise Linux(R) Server 7.3
- Red Hat(R) Enterprise Linux(R) Server 6.9

## 5.7 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。

## 5.8 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]ー[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。

## 5.9 RHEL7.3 または RHEL7.4 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、RHEL7.3 または、RHEL7.4 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になることを推奨します。

(a)RHEL7.3：SPH3.00 収録ドライバ

(b)RHEL7.4：SPH4.60 収録ドライバ

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

(\*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
- HP Ethernet 1Gb 4-port 331FLR Adapter
- HP Ethernet 1Gb 4-port 331T Adapter
- HP Ethernet 1Gb 2-port 332T Adapter

(1) 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](http://www.hitachi.co.jp/cgi-bin/soft/sjst/select_open.cgi)

にある Windows 版 ITRU 取扱説明書の 3 章をご確認願います。

(2) 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めには、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、<http://www.hitachi.co.jp/ha8000v/>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-u34-1.36_2018_02_14-1.1.x86_64.rpm	System BIOS - U34	1.36_02-14-2018	v1.36 (02/14/2018)	更新
2	Online ROM Flash Component for Linux - System ROM U30	firmware-system-oem-u30-1.36_2018_02_15-1.1.x86_64.rpm	System BIOS - U30	1.36_02-15-2018	v1.36 (02/15/2018)	更新
3	Online ROM Flash Component for Linux - System ROM U32	firmware-system-oem-u32-1.36_2018_02_14-1.1.x86_64.rpm	System BIOS - U32	1.36_02-14-2018	v1.36 (02/14/2018)	更新
4	Online ROM Flash Component for Linux - System ROM U41	firmware-system-oem-u41-1.36_2018_02_14-1.1.x86_64.rpm	System BIOS - U41	1.36_02-14-2018	v1.36 (02/14/2018)	更新
5	Online ROM Flash Component for Windows x64 - OEM System ROM U34	cp033472.exe	System BIOS - U34	1.36_02-14-2018	v1.36 (02/14/2018)	更新
6	Online ROM Flash Component for Windows x64 - System ROM U30	cp033410.exe	System BIOS - U30	1.36_02-15-2018	v1.36 (02/15/2018)	更新
7	Online ROM Flash Component for Windows x64 - System ROM U32	cp033439.exe	System BIOS - U32	1.36_02-14-2018	v1.36 (02/14/2018)	更新
8	Online ROM Flash Component for Windows x64 - System ROM U41	cp033412.exe	System BIOS - U41	1.36_02-14-2018	v1.36 (02/14/2018)	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	cp033114.exe	-	10.1.2.86	10.1.2.86	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	cp033341.exe	HP Ethernet 1Gb 2-port 332T Adapter	20.8.0.0	20.8.0.0	更新
11	HPE Broadcom NX1 1Gb Driver for Windows Server x64 Editions	cp033341.exe	HP Ethernet 1Gb 4-port 331FLR Adapter	20.8.0.0	20.8.0.0	更新
12	HPE Broadcom NX1 1Gb Driver for Windows Server x64 Editions	cp033341.exe	HP Ethernet 1Gb 4-port 331i Adapter (22BE)	20.8.0.0	20.8.0.0	更新
13	HPE Broadcom NX1 1Gb Driver for Windows Server x64 Editions	cp033341.exe	HP Ethernet 1Gb 4-port 331T Adapter	20.8.0.0	20.8.0.0	更新
14	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-tg3-3.137u-1.rhel6u9.x86_64.rpm	HP Ethernet 1Gb 2-port 332T Adapter	3.137u-1	3.137u-1	更新
15	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-tg3-3.137u-1.rhel6u9.x86_64.rpm	HP Ethernet 1Gb 4-port 331FLR Adapter	3.137u-1	3.137u-1	更新
16	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-tg3-3.137u-1.rhel6u9.x86_64.rpm	HP Ethernet 1Gb 4-port 331i Adapter (22BE)	3.137u-1	3.137u-1	更新
17	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-tg3-3.137u-1.rhel6u9.x86_64.rpm	HP Ethernet 1Gb 4-port 331T Adapter	3.137u-1	3.137u-1	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
18	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.137u-1.rhel7u3.x86_64.rpm	HP Ethernet 1Gb 2-port 332T Adapter	3.137u-1	3.137u-1	更新
19	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.137u-1.rhel7u3.x86_64.rpm	HP Ethernet 1Gb 4-port 331FLR Adapter	3.137u-1	3.137u-1	更新
20	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.137u-1.rhel7u3.x86_64.rpm	HP Ethernet 1Gb 4-port 331i Adapter (22BE)	3.137u-1	3.137u-1	更新
21	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.137u-1.rhel7u3.x86_64.rpm	HP Ethernet 1Gb 4-port 331T Adapter	3.137u-1	3.137u-1	更新
22	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.137u-1.rhel7u4.x86_64.rpm	HP Ethernet 1Gb 2-port 332T Adapter	3.137u-1	3.137u-1	更新
23	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.137u-1.rhel7u4.x86_64.rpm	HP Ethernet 1Gb 4-port 331FLR Adapter	3.137u-1	3.137u-1	更新
24	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.137u-1.rhel7u4.x86_64.rpm	HP Ethernet 1Gb 4-port 331i Adapter (22BE)	3.137u-1	3.137u-1	更新
25	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.137u-1.rhel7u4.x86_64.rpm	HP Ethernet 1Gb 4-port 331T Adapter	3.137u-1	3.137u-1	更新
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-2.3.6-1.rhel6u9.x86_64.rpm	HPE Ethernet 1Gb 4-port 369i Adapter	2.3.6-1	2.3.6-1	更新
30	HPE Intel i40e Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-hp-i40e-2.3.6-1.rhel6u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	2.3.6-1	2.3.6-1	更新
31	HPE Intel i40e Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-hp-i40e-2.3.6-1.rhel6u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	2.3.6-1	2.3.6-1	更新
32	HPE Intel i40e Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40e-2.3.6-1.rhel7u3.x86_64.rpm	HPE Ethernet 1Gb 4-port 369i Adapter	2.3.6-1	2.3.6-1	更新
33	HPE Intel i40e Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40e-2.3.6-1.rhel7u3.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	2.3.6-1	2.3.6-1	更新
34	HPE Intel i40e Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40e-2.3.6-1.rhel7u3.x86_64.rpm	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	2.3.6-1	2.3.6-1	更新
35	HPE Intel i40e Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40e-2.3.6-1.rhel7u4.x86_64.rpm	HPE Ethernet 1Gb 4-port 369i Adapter	2.3.6-1	2.3.6-1	更新
36	HPE Intel i40e Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40e-2.3.6-1.rhel7u4.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	2.3.6-1	2.3.6-1	更新
37	HPE Intel i40e Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40e-2.3.6-1.rhel7u4.x86_64.rpm	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	2.3.6-1	2.3.6-1	更新
38	HPE Intel i40ea Driver for	cp033275.exe	HPE Ethernet	1.8.83.0	1.8.83.0	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
	Windows Server 2012 R2		10Gb 2-port 562FLR-SFP+ Adapter			
39	HPE Intel i40ea Driver for Windows Server 2012 R2	cp033275.exe	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	1.8.83.0	1.8.83.0	更新
40	HPE Intel i40ea Driver for Windows Server 2016	cp033276.exe	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	1.8.83.0	1.8.83.0	更新
41	HPE Intel i40ea Driver for Windows Server 2016	cp033276.exe	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	1.8.83.0	1.8.83.0	更新
42	HPE Intel i40eb Driver for Windows Server 2012 R2	cp033277.exe	HPE Ethernet 1Gb 4-port 369i Adapter	1.8.83.0	1.8.83.0	更新
43	HPE Intel i40eb Driver for Windows Server 2016	cp033278.exe	HPE Ethernet 1Gb 4-port 369i Adapter	1.8.83.0	1.8.83.0	更新
44	HPE Intel i40evf Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-hp-i40evf-3.2.5-1.rhel6u9.x86_64.rpm	HPE Ethernet 1Gb 4-port 369i Adapter	3.2.5-1	3.2.5-1	更新
45	HPE Intel i40evf Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-hp-i40evf-3.2.5-1.rhel6u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	3.2.5-1	3.2.5-1	更新
46	HPE Intel i40evf Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-hp-i40evf-3.2.5-1.rhel6u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	3.2.5-1	3.2.5-1	更新
47	HPE Intel i40evf Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40evf-3.2.5-1.rhel7u3.x86_64.rpm	HPE Ethernet 1Gb 4-port 369i Adapter	3.2.5-1	3.2.5-1	更新
48	HPE Intel i40evf Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40evf-3.2.5-1.rhel7u3.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	3.2.5-1	3.2.5-1	更新
49	HPE Intel i40evf Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40evf-3.2.5-1.rhel7u3.x86_64.rpm	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	3.2.5-1	3.2.5-1	更新
50	HPE Intel i40evf Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40evf-3.2.5-1.rhel7u4.x86_64.rpm	HPE Ethernet 1Gb 4-port 369i Adapter	3.2.5-1	3.2.5-1	更新
51	HPE Intel i40evf Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40evf-3.2.5-1.rhel7u4.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	3.2.5-1	3.2.5-1	更新
52	HPE Intel i40evf Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40evf-3.2.5-1.rhel7u4.x86_64.rpm	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	3.2.5-1	3.2.5-1	更新
53	HPE Intel igb Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-hp-igb-5.3.5.12-1.rhel6u9.x86_64.rpm	HP Ethernet 1Gb 2-port 361T Adapter	5.3.5.12-1	5.3.5.12-1	更新
54	HPE Intel igb Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-hp-igb-5.3.5.12-1.rhel6u9.x86_64.rpm	HP Ethernet 1Gb 4-port 366FLR Adapter	5.3.5.12-1	5.3.5.12-1	更新
55	HPE Intel igb Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-hp-igb-5.3.5.12-1.rhel6u9.x86_64.rpm	HP Ethernet 1Gb 4-port 366T Adapter	5.3.5.12-1	5.3.5.12-1	更新
56	HPE Intel igb Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-igb-5.3.5.12-1.rhel7u3.x86_64.rpm	HP Ethernet 1Gb 2-port 361T Adapter	5.3.5.12-1	5.3.5.12-1	更新
57	HPE Intel igb Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-igb-5.3.5.12-1.rhel7u3.x86_64.rpm	HP Ethernet 1Gb 4-port 366FLR Adapter	5.3.5.12-1	5.3.5.12-1	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
58	HPE Intel igb Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-igb-5.3.5.12-1.rhel7u3.x86_64.rpm	HP Ethernet 1Gb 4-port 366T Adapter	5.3.5.12-1	5.3.5.12-1	更新
59	HPE Intel igb Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-igb-5.3.5.12-1.rhel7u4.x86_64.rpm	HP Ethernet 1Gb 2-port 361T Adapter	5.3.5.12-1	5.3.5.12-1	更新
60	HPE Intel igb Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-igb-5.3.5.12-1.rhel7u4.x86_64.rpm	HP Ethernet 1Gb 4-port 366FLR Adapter	5.3.5.12-1	5.3.5.12-1	更新
61	HPE Intel igb Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-igb-5.3.5.12-1.rhel7u4.x86_64.rpm	HP Ethernet 1Gb 4-port 366T Adapter	5.3.5.12-1	5.3.5.12-1	更新
62	HPE Intel ixgbe Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-hp-ixgbe-5.3.3-1.rhel6u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	5.3.3-1	5.3.3-1	新規追加
63	HPE Intel ixgbe Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-hp-ixgbe-5.3.3-1.rhel6u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 562T Adapter	5.3.3-1	5.3.3-1	新規追加
64	HPE Intel ixgbe Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-ixgbe-5.3.3-1.rhel7u3.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	5.3.3-1	5.3.3-1	新規追加
65	HPE Intel ixgbe Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-ixgbe-5.3.3-1.rhel7u3.x86_64.rpm	HPE Ethernet 10Gb 2-port 562T Adapter	5.3.3-1	5.3.3-1	新規追加
66	HPE Intel ixgbe Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-ixgbe-5.3.3-1.rhel7u4.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	5.3.3-1	5.3.3-1	新規追加
67	HPE Intel ixgbe Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-ixgbe-5.3.3-1.rhel7u4.x86_64.rpm	HPE Ethernet 10Gb 2-port 562T Adapter	5.3.3-1	5.3.3-1	新規追加
68	HPE Intel ixgbev Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-hp-ixgbev-4.3.2-1.rhel6u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	4.3.2-1	4.3.2-1	新規追加
69	HPE Intel ixgbev Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-hp-ixgbev-4.3.2-1.rhel6u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 562T Adapter	4.3.2-1	4.3.2-1	新規追加
70	HPE Intel ixgbev Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-ixgbev-4.3.2-1.rhel7u3.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	4.3.2-1	4.3.2-1	新規追加
71	HPE Intel ixgbev Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-ixgbev-4.3.2-1.rhel7u3.x86_64.rpm	HPE Ethernet 10Gb 2-port 562T Adapter	4.3.2-1	4.3.2-1	新規追加
72	HPE Intel ixgbev Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-ixgbev-4.3.2-1.rhel7u4.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	4.3.2-1	4.3.2-1	新規追加
73	HPE Intel ixgbev Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-ixgbev-4.3.2-1.rhel7u4.x86_64.rpm	HPE Ethernet 10Gb 2-port 562T Adapter	4.3.2-1	4.3.2-1	新規追加
74	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	新規追加
75	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	新規追加
76	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	新規追加
77	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	新規追加
78	HPE Intel v40e Driver for Windows Server 2012 R2	cp033663.exe	-	1.5.65.0	1.5.65.0	新規追加
79	HPE Intel v40e Driver for Windows Server 2016	cp033664.exe	-	1.5.65.0	1.5.65.0	新規追加

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
80	HPE Intel vxn Driver for Windows Server 2012 R2	cp032568.exe	-	1.0.16.1	1.0.16.1	新規追加
81	HPE Intel vxn Driver for Windows Server 2016	cp032569.exe	-	2.0.210.0	2.0.210.0	新規追加
82	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-netxtreme2-7.14.38-1.rhel6u9.x86_64.rpm	HP Ethernet 10Gb 2-port 530SFP+ Adapter	7.14.38-1	7.14.38-1	更新
83	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-netxtreme2-7.14.38-1.rhel6u9.x86_64.rpm	HP Ethernet 10Gb 2-port 530T Adapter	7.14.38-1	7.14.38-1	更新
84	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 6 x86_64	kmod-netxtreme2-7.14.38-1.rhel6u9.x86_64.rpm	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	7.14.38-1	7.14.38-1	更新
85	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-netxtreme2-7.14.38-1.rhel7u3.x86_64.rpm	HP Ethernet 10Gb 2-port 530SFP+ Adapter	7.14.38-1	7.14.38-1	更新
86	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-netxtreme2-7.14.38-1.rhel7u3.x86_64.rpm	HP Ethernet 10Gb 2-port 530T Adapter	7.14.38-1	7.14.38-1	更新
87	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-netxtreme2-7.14.38-1.rhel7u3.x86_64.rpm	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	7.14.38-1	7.14.38-1	更新
88	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-netxtreme2-7.14.38-1.rhel7u4.x86_64.rpm	HP Ethernet 10Gb 2-port 530SFP+ Adapter	7.14.38-1	7.14.38-1	更新
89	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-netxtreme2-7.14.38-1.rhel7u4.x86_64.rpm	HP Ethernet 10Gb 2-port 530T Adapter	7.14.38-1	7.14.38-1	更新
90	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-netxtreme2-7.14.38-1.rhel7u4.x86_64.rpm	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	7.14.38-1	7.14.38-1	更新
91	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Windows Server x64 Editions	cp032949.exe	HP Ethernet 10Gb 2-port 530SFP+ Adapter	7.13.118.0	7.13.118.0	更新
92	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Windows Server x64 Editions	cp032949.exe	HP Ethernet 10Gb 2-port 530T Adapter	7.13.118.0	7.13.118.0	更新
93	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Windows Server x64 Editions	cp032949.exe	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	7.13.118.0	7.13.118.0	更新

## 6.2.4 Driver – Storage

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
94	HPE Smart Array S100i SR Gen10 SW RAID Driver for Windows Server 2012 R2 and Windows Server 2016	cp032245.exe	-	62.2.20.64	62.2.20.64	更新

## 6.2.5 Driver – Storage Controller

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
95	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 6 (64-bit)	kmod-smartpqi-1.1.2-125.rhel6u9.x86_64.rpm	HPE Smart Array P408i-p SR Gen10 Controller	1.1.2-125	1.1.2-125	更新
96	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 6 (64-bit)	kmod-smartpqi-1.1.2-125.rhel6u9.x86_64.rpm	HPE Smart Array P408i-a SR Gen10 Controller	1.1.2-125	1.1.2-125	更新
97	HPE ProLiant Gen10 Smart	kmod-smartpqi-1.1.2-1	HPE Smart Array	1.1.2-125	1.1.2-125	更新



No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
	Array Controller (64-bit) Driver for Red Hat Enterprise Linux 6 (64-bit)	25.rhel6u9.x86_64.rpm	P816i-a SR Gen10 Controller			
98	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 6 (64-bit)	kmod-smartpqi-1.1.2-1 25.rhel6u9.x86_64.rpm	HPE Smart Array E208i-p SR Gen10 Controller	1.1.2-125	1.1.2-125	更新
99	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 6 (64-bit)	kmod-smartpqi-1.1.2-1 25.rhel6u9.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	1.1.2-125	1.1.2-125	更新
100	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 6 (64-bit)	kmod-smartpqi-1.1.2-1 25.rhel6u9.x86_64.rpm	HPE Smart Array E208i-a SR Gen10 Controller	1.1.2-125	1.1.2-125	更新
101	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.1.2-1 25.rhel7u3.x86_64.rpm	HPE Smart Array P408i-p SR Gen10 Controller	1.1.2-125	1.1.2-125	更新
102	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.1.2-1 25.rhel7u3.x86_64.rpm	HPE Smart Array P408i-a SR Gen10 Controller	1.1.2-125	1.1.2-125	更新
103	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.1.2-1 25.rhel7u3.x86_64.rpm	HPE Smart Array P816i-a SR Gen10 Controller	1.1.2-125	1.1.2-125	更新
104	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.1.2-1 25.rhel7u3.x86_64.rpm	HPE Smart Array E208i-p SR Gen10 Controller	1.1.2-125	1.1.2-125	更新
105	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.1.2-1 25.rhel7u3.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	1.1.2-125	1.1.2-125	更新
106	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.1.2-1 25.rhel7u3.x86_64.rpm	HPE Smart Array E208i-a SR Gen10 Controller	1.1.2-125	1.1.2-125	更新
107	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.1.2-1 25.rhel7u4.x86_64.rpm	HPE Smart Array P408i-p SR Gen10 Controller	1.1.2-125	1.1.2-125	更新
108	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.1.2-1 25.rhel7u4.x86_64.rpm	HPE Smart Array P408i-a SR Gen10 Controller	1.1.2-125	1.1.2-125	更新
109	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.1.2-1 25.rhel7u4.x86_64.rpm	HPE Smart Array P816i-a SR Gen10 Controller	1.1.2-125	1.1.2-125	更新
110	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.1.2-1 25.rhel7u4.x86_64.rpm	HPE Smart Array E208i-p SR Gen10 Controller	1.1.2-125	1.1.2-125	更新
111	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.1.2-1 25.rhel7u4.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	1.1.2-125	1.1.2-125	更新
112	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.1.2-1 25.rhel7u4.x86_64.rpm	HPE Smart Array E208i-a SR Gen10 Controller	1.1.2-125	1.1.2-125	更新
113	HPE Smart Array Gen10	cp032545.exe	HPE Smart Array	100.52.1.64	100.52.1.64	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
	Controller Driver for Windows Server 2012 R2 and Windows Server 2016		P816i-a SR Gen10 Controller			
114	HPE Smart Array Gen10 Controller Driver for Windows Server 2012 R2 and Windows Server 2016	cp032545.exe	HPE Smart Array P408i-a SR Gen10 Controller	100.52.1.64	100.52.1.64	更新
115	HPE Smart Array Gen10 Controller Driver for Windows Server 2012 R2 and Windows Server 2016	cp032545.exe	HPE Smart Array P408i-p SR Gen10 Controller	100.52.1.64	100.52.1.64	更新
116	HPE Smart Array Gen10 Controller Driver for Windows Server 2012 R2 and Windows Server 2016	cp032545.exe	HPE Smart Array E208e-p SR Gen10 Controller	100.52.1.64	100.52.1.64	更新
117	HPE Smart Array Gen10 Controller Driver for Windows Server 2012 R2 and Windows Server 2016	cp032545.exe	HPE Smart Array E208i-p SR Gen10 Controller	100.52.1.64	100.52.1.64	更新
118	HPE Smart Array Gen10 Controller Driver for Windows Server 2012 R2 and Windows Server 2016	cp032545.exe	HPE Smart Array E208i-a SR Gen10 Controller	100.52.1.64	100.52.1.64	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
119	HPE Storage Fibre Channel Adapter Kit for the QLogic Storport Driver for Windows Server 2012 and 2012 R2	cp032437.exe	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	9.2.5.20	9.2.5.20	
120	HPE Storage Fibre Channel Adapter Kit for the QLogic Storport Driver for Windows Server 2012 and 2012 R2	cp032437.exe	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	9.2.5.20	9.2.5.20	
121	HPE Storage Fibre Channel Adapter Kit for the QLogic Storport Driver for Windows Server 2012 and 2012 R2	cp032437.exe	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	9.2.5.20	9.2.5.20	
122	HPE Storage Fibre Channel Adapter Kit for the QLogic Storport Driver for Windows Server 2012 and 2012 R2	cp032437.exe	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	9.2.5.20	9.2.5.20	
123	HPE Storage Fibre Channel Adapter Kit for the QLogic Storport Driver for Windows Server 2016	cp032438.exe	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	9.2.5.20	9.2.5.20	
124	HPE Storage Fibre Channel Adapter Kit for the QLogic Storport Driver for Windows Server 2016	cp032438.exe	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	9.2.5.20	9.2.5.20	
125	HPE Storage Fibre Channel Adapter Kit for the QLogic Storport Driver for Windows Server 2016	cp032438.exe	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	9.2.5.20	9.2.5.20	
126	HPE Storage Fibre Channel	cp032438.exe	HPE StoreFabric	9.2.5.20	9.2.5.20	

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
	Adapter Kit for the QLogic Storport Driver for Windows Server 2016		SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter			
127	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Windows 2012, Windows 2012R2 and Windows 2016	cp032862.exe	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	11.4.225.9	11.4.225.9	更新
128	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Windows 2012, Windows 2012R2 and Windows 2016	cp032862.exe	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	11.4.225.9	11.4.225.9	更新
129	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Windows 2012, Windows 2012R2 and Windows 2016	cp032862.exe	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	11.4.225.9	11.4.225.9	更新
130	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Windows 2012, Windows 2012R2 and Windows 2016	cp032862.exe	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	11.4.225.9	11.4.225.9	更新
131	Red Hat Enterprise Linux 6 Server (x86-64) FC Driver Kit for HPE Qlogic HBAs and mezzanine HBAs	kmod-qlgc-qla2xxx-8.07.00.50.06.0_k4-1.rhel6u9.x86_64.rpm	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	8.07.00.50.06.0-k4	8.07.00.50.06.0-k4	
132	Red Hat Enterprise Linux 6 Server (x86-64) FC Driver Kit for HPE Qlogic HBAs and mezzanine HBAs	kmod-qlgc-qla2xxx-8.07.00.50.06.0_k4-1.rhel6u9.x86_64.rpm	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	8.07.00.50.06.0-k4	8.07.00.50.06.0-k4	
133	Red Hat Enterprise Linux 6 Server (x86-64) FC Driver Kit for HPE Qlogic HBAs and mezzanine HBAs	kmod-qlgc-qla2xxx-8.07.00.50.06.0_k4-1.rhel6u9.x86_64.rpm	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	8.07.00.50.06.0-k4	8.07.00.50.06.0-k4	
134	Red Hat Enterprise Linux 6 Server (x86-64) FC Driver Kit for HPE Qlogic HBAs and mezzanine HBAs	kmod-qlgc-qla2xxx-8.07.00.50.06.0_k4-1.rhel6u9.x86_64.rpm	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	8.07.00.50.06.0-k4	8.07.00.50.06.0-k4	
135	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-11.4.142.26-1.rhel6u9.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	11.4.142.26	11.4.142.26	更新
136	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-11.4.142.26-1.rhel6u9.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	11.4.142.26	11.4.142.26	更新
137	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-11.4.142.26-1.rhel6u9.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	11.4.142.26	11.4.142.26	更新
138	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-11.4.142.26-1.rhel6u9.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	11.4.142.26	11.4.142.26	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
139	Red Hat Enterprise Linux 7 Server FC Driver Kit for HPE QLogic HBAs and mezzanine HBAs	kmod-qlgc-qla2xxx-8.07.00.50.07.0_k4-1.rhel7u3.x86_64.rpm	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	8.07.00.50.07.0-k4	8.07.00.50.07.0-k4	
140	Red Hat Enterprise Linux 7 Server FC Driver Kit for HPE QLogic HBAs and mezzanine HBAs	kmod-qlgc-qla2xxx-8.07.00.50.07.0_k4-1.rhel7u3.x86_64.rpm	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	8.07.00.50.07.0-k4	8.07.00.50.07.0-k4	
141	Red Hat Enterprise Linux 7 Server FC Driver Kit for HPE QLogic HBAs and mezzanine HBAs	kmod-qlgc-qla2xxx-8.07.00.50.07.0_k4-1.rhel7u3.x86_64.rpm	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	8.07.00.50.07.0-k4	8.07.00.50.07.0-k4	
142	Red Hat Enterprise Linux 7 Server FC Driver Kit for HPE QLogic HBAs and mezzanine HBAs	kmod-qlgc-qla2xxx-8.07.00.50.07.0_k4-1.rhel7u3.x86_64.rpm	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	8.07.00.50.07.0-k4	8.07.00.50.07.0-k4	
143	Red Hat Enterprise Linux 7 Server FC Driver Kit for HPE QLogic HBAs and mezzanine HBAs	kmod-qlgc-qla2xxx-8.07.00.50.07.0_k4-1.rhel7u4.x86_64.rpm	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	8.07.00.50.07.0-k4	8.07.00.50.07.0-k4	
144	Red Hat Enterprise Linux 7 Server FC Driver Kit for HPE QLogic HBAs and mezzanine HBAs	kmod-qlgc-qla2xxx-8.07.00.50.07.0_k4-1.rhel7u4.x86_64.rpm	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	8.07.00.50.07.0-k4	8.07.00.50.07.0-k4	
145	Red Hat Enterprise Linux 7 Server FC Driver Kit for HPE QLogic HBAs and mezzanine HBAs	kmod-qlgc-qla2xxx-8.07.00.50.07.0_k4-1.rhel7u4.x86_64.rpm	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	8.07.00.50.07.0-k4	8.07.00.50.07.0-k4	
146	Red Hat Enterprise Linux 7 Server FC Driver Kit for HPE QLogic HBAs and mezzanine HBAs	kmod-qlgc-qla2xxx-8.07.00.50.07.0_k4-1.rhel7u4.x86_64.rpm	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	8.07.00.50.07.0-k4	8.07.00.50.07.0-k4	
147	Red Hat Enterprise Linux 7 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and mezzanine Host Bus Adapters	kmod-elx-lpfc-11.4.142.26-1.rhel7u3.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	11.4.142.26	11.4.142.26	更新
148	Red Hat Enterprise Linux 7 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and mezzanine Host Bus Adapters	kmod-elx-lpfc-11.4.142.26-1.rhel7u3.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	11.4.142.26	11.4.142.26	更新
149	Red Hat Enterprise Linux 7 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and mezzanine Host Bus Adapters	kmod-elx-lpfc-11.4.142.26-1.rhel7u3.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	11.4.142.26	11.4.142.26	更新
150	Red Hat Enterprise Linux 7 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and mezzanine Host Bus Adapters	kmod-elx-lpfc-11.4.142.26-1.rhel7u3.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	11.4.142.26	11.4.142.26	更新
151	Red Hat Enterprise Linux 7 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and mezzanine Host	kmod-elx-lpfc-11.4.142.26-1.rhel7u4.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus	11.4.142.26	11.4.142.26	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
	Bus Adapters		Adapter			
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-11.4.142.26-1.rhel7u4.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	11.4.142.26	11.4.142.26	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-11.4.142.26-1.rhel7u4.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	11.4.142.26	11.4.142.26	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-11.4.142.26-1.rhel7u4.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	11.4.142.26	11.4.142.26	更新

### 6.2.7 Driver - System Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
155	iLO 5 Automatic Server Recovery Driver for Windows Server 2012 R2	cp033121.exe	-	4.2.0.0	4.2.0.0	新規追加
156	iLO 5 Automatic Server Recovery Driver for Windows Server 2016	cp033122.exe	-	4.2.0.0	4.2.0.0	新規追加
157	iLO 5 Channel Interface Driver for Windows Server 2012 R2	cp033119.exe	-	4.1.0.0 (B)	4.1.0.0 (B)	更新
158	iLO 5 Channel Interface Driver for Windows Server 2016	cp033120.exe	-	4.1.0.0 (B)	4.1.0.0 (B)	更新

### 6.2.8 Driver - Video

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
159	Matrox G200eH3 Video Controller Driver for Windows Server 2012 R2	cp032304.exe	-	9.15.1.184	9.15.1.184	
160	Matrox G200eH3 Video Controller Driver for Windows Server 2016	cp032305.exe	-	9.15.1.184	9.15.1.184	

### 6.2.9 Firmware - Lights-Out Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
161	Language Pack - Japanese	cp033454.exe	Integrated Lights-Out 5 Language Pack	1.15	1.15	
162	Language Pack - Japanese	firmware-ilo5-lpk-ja-1.15-1.1.x86_64.rpm	Integrated Lights-Out 5 Language Pack	1.15	1.15	
163	Online ROM Flash Component for Linux - iLO 5	firmware-ilo5-1.20-1.1.x86_64.rpm	Integrated Lights-Out 5 Firmware	1.20	1.20	更新
164	Online ROM Flash Component for Windows x64 - iLO 5	cp033897.exe	Integrated Lights-Out 5 Firmware	1.20	1.20	更新

## 6.2.10 Firmware – Network

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
165	HPE Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-broadcom-2.20.7-1.1.x86_64.rpm	HP Ethernet 1Gb 2-port 332T Adapter	2.20.7	20.8.41	更新
166	HPE Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-broadcom-2.20.7-1.1.x86_64.rpm	HP Ethernet 1Gb 4-port 331FLR Adapter	2.20.7	20.8.41	更新
167	HPE Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-broadcom-2.20.7-1.1.x86_64.rpm	HP Ethernet 1Gb 4-port 331i Adapter (22BE)	2.20.7	20.8.41	更新
168	HPE Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-broadcom-2.20.7-1.1.x86_64.rpm	HP Ethernet 1Gb 4-port 331T Adapter	2.20.7	20.8.41	更新
169	HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp033125.exe	HP Ethernet 1Gb 2-port 332T Adapter	5.1.2.2	20.8.41	更新
170	HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp033125.exe	HP Ethernet 1Gb 4-port 331FLR Adapter	5.1.2.2	20.8.41	更新
171	HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp033125.exe	HP Ethernet 1Gb 4-port 331i Adapter (22BE)	5.1.2.2	20.8.41	更新
172	HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp033125.exe	HP Ethernet 1Gb 4-port 331T Adapter	5.1.2.2	20.8.41	更新
173	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.14.13-1.1.x86_64.rpm	HPE Ethernet 1Gb 4-port 369i Adapter	1.14.13	1.1825.0	更新
174	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.14.13-1.1.x86_64.rpm	HP Ethernet 1Gb 2-port 361T Adapter	1.14.13	1.1825.0	更新
175	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.14.13-1.1.x86_64.rpm	HP Ethernet 1Gb 4-port 366FLR Adapter	1.14.13	1.1825.0	更新
176	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.14.13-1.1.x86_64.rpm	HP Ethernet 1Gb 4-port 366T Adapter	1.14.13	1.1825.0	更新
177	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.14.13-1.1.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	1.14.13	10.2.5	更新
178	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.14.13-1.1.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	1.14.13	10.2.5	更新
179	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.14.13-1.1.x86_64.rpm	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	1.14.13	10.2.5	更新
180	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.14.13-1.1.x86_64.rpm	HPE Ethernet 10Gb 2-port 562T Adapter	1.14.13	10.2.5	更新
181	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp033127.exe	HPE Ethernet 1Gb 4-port 369i Adapter	5.1.2.2	1.1825.0	更新
182	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp033127.exe	HP Ethernet 1Gb 2-port 361T Adapter	5.1.2.2	1.1825.0	更新
183	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp033127.exe	HP Ethernet 1Gb 4-port 366FLR Adapter	5.1.2.2	1.1825.0	更新
184	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp033127.exe	HP Ethernet 1Gb 4-port 366T Adapter	5.1.2.2	1.1825.0	更新
185	HPE Intel Online Firmware	cp033127.exe	HPE Ethernet	5.1.2.2	10.2.5	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
	Upgrade Utility for Windows Server x64 Editions		10Gb 2-port 562FLR-SFP+ Adapter			
186	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp033127.exe	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	5.1.2.2	10.2.5	更新
187	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp033127.exe	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	5.1.2.2	10.2.5	更新
188	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp033127.exe	HPE Ethernet 10Gb 2-port 562T Adapter	5.1.2.2	10.2.5	更新
189	HPE QLogic NX2 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-qlogic-nx2-2.21.15-1.1.x86_64.rpm	HP Ethernet 10Gb 2-port 530SFP+ Adapter	2.21.15	7.15.97	更新
190	HPE QLogic NX2 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-qlogic-nx2-2.21.15-1.1.x86_64.rpm	HP Ethernet 10Gb 2-port 530T Adapter	2.21.15	7.15.97	更新
191	HPE QLogic NX2 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-qlogic-nx2-2.21.15-1.1.x86_64.rpm	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	2.21.15	7.15.97	更新
192	HPE QLogic NX2 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp033128.exe	HP Ethernet 10Gb 2-port 530SFP+ Adapter	5.1.2.2	7.15.97	更新
193	HPE QLogic NX2 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp033128.exe	HP Ethernet 10Gb 2-port 530T Adapter	5.1.2.2	7.15.97	更新
194	HPE QLogic NX2 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp033128.exe	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	5.1.2.2	7.15.97	更新

### 6.2.11 Firmware - Power Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
195	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	
196	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
197	Online ROM Flash Component for Windows (x64) - EG000600JWEBH and EG000300JWEBF Drives	cp032365.exe	EG000600JWEBH	HPD3	HPD3	
198	Online ROM Flash Component for Windows (x64) - EG000600JWEBH and EG000300JWEBF Drives	cp032365.exe	EG000300JWEBF	HPD3	HPD3	
199	Online ROM Flash Component	cp032288.exe	EG1200JEMDA	HPD6	HPD6	

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
	for Windows (x64) - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB, and EG1200JEMDA Drives					
200	Online ROM Flash Component for Windows (x64) - EG1800JEMDB Drives	cp032293.exe	EG1800JEMDB	HPD3	HPD3	
201	Online ROM Flash Component for Windows (x64) - EH000300JWCPK, EH000600JWCPL, and EH000900JWCPN Drives	cp032358.exe	EH000300JWCPK	HPD3	HPD3	
202	Online ROM Flash Component for Windows (x64) - EH000300JWCPK, EH000600JWCPL, and EH000900JWCPN Drives	cp032358.exe	EH000600JWCPL	HPD3	HPD3	
203	Online ROM Flash Component for Windows (x64) - EH000300JWCPK, EH000600JWCPL, and EH000900JWCPN Drives	cp032358.exe	EH000900JWCPN	HPD3	HPD3	
204	Online ROM Flash Component for Windows (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP, and MB4000JVYZQ Drives	cp032349.exe	MB1000JVYZL	HPD2	HPD2	
205	Online ROM Flash Component for Windows (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP, and MB4000JVYZQ Drives	cp032349.exe	MB2000JVYZN	HPD2	HPD2	
206	Online ROM Flash Component for Windows (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP, and MB4000JVYZQ Drives	cp032349.exe	MB4000JVYZQ	HPD2	HPD2	
207	Online ROM Flash Component for Windows (x64) - MB6000JVYYV Drives	cp032352.exe	MB6000JVYYV	HPD2	HPD2	
208	Online ROM Flash Component for Windows (x64) - MB8000JFECQ Drives	cp031789.exe	MB8000JFECQ	HPD4	HPD4	
209	Online ROM Flash Component for Windows (x64) - MM1000JEFRB and MM2000JEFRC Drives	cp032291.exe	MM2000JEFRC	HPD7	HPD7	
210	Online ROM Flash Component for Windows (x64) - MM1000JFJTH Drives	cp032340.exe	MM1000JFJTH	HPD2	HPD2	
211	Supplemental Update / Online ROM Flash Component for Linux (x64) - EG000600JWEBH and EG000300JWEBF Drives	firmware-hdd-aa9e289524-HPD3-1.1.x86_64.rpm	EG000600JWEBH	HPD3	HPD3	
212	Supplemental Update / Online ROM Flash Component for Linux (x64) - EG000600JWEBH and EG000300JWEBF Drives	firmware-hdd-aa9e289524-HPD3-1.1.x86_64.rpm	EG000300JWEBF	HPD3	HPD3	
213	Supplemental Update / Online ROM Flash Component for Linux (x64) - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB, and EG1200JEMDA Drives	firmware-hdd-ac3fda26eb-HPD6-2.1.x86_64.rpm	EG1200JEMDA	HPD6 (B)	HPD6	
214	Supplemental Update / Online	firmware-hdd-0a38b25	EG1800JEMDB	HPD3	HPD3	



No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
	ROM Flash Component for Linux (x64) - EG1800JEMDB Drives	661-HPD3-1.1.x86_64.rpm				
215	Supplemental Update / Online ROM Flash Component for Linux (x64) - EH000300JWCPK, EH000600JWCPL, and EH000900JWCPN Drives	firmware-hdd-3d97759111-HPD3-1.1.x86_64.rpm	EH000900JWCPN	HPD3	HPD3	
216	Supplemental Update / Online ROM Flash Component for Linux (x64) - EH000300JWCPK, EH000600JWCPL, and EH000900JWCPN Drives	firmware-hdd-3d97759111-HPD3-1.1.x86_64.rpm	EH000600JWCPL	HPD3	HPD3	
217	Supplemental Update / Online ROM Flash Component for Linux (x64) - EH000300JWCPK, EH000600JWCPL, and EH000900JWCPN Drives	firmware-hdd-3d97759111-HPD3-1.1.x86_64.rpm	EH000300JWCPK	HPD3	HPD3	
218	Supplemental Update / Online ROM Flash Component for Linux (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP, and MB4000JVYZQ Drives	firmware-hdd-b85516c7d2-HPD2-1.1.x86_64.rpm	MB1000JVYZL	HPD2	HPD2	
219	Supplemental Update / Online ROM Flash Component for Linux (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP, and MB4000JVYZQ Drives	firmware-hdd-b85516c7d2-HPD2-1.1.x86_64.rpm	MB2000JVYZN	HPD2	HPD2	
220	Supplemental Update / Online ROM Flash Component for Linux (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP, and MB4000JVYZQ Drives	firmware-hdd-b85516c7d2-HPD2-1.1.x86_64.rpm	MB4000JVYZQ	HPD2	HPD2	
221	Supplemental Update / Online ROM Flash Component for Linux (x64) - MB6000JVYYV Drives	firmware-hdd-0595c2a887-HPD2-1.1.x86_64.rpm	MB6000JVYYV	HPD2	HPD2	
222	Supplemental Update / Online ROM Flash Component for Linux (x64) - MB8000JFECQ Drives	firmware-hdd-252770cdda-HPD4-2.1.x86_64.rpm	MB8000JFECQ	HPD4 (B)	HPD4	
223	Supplemental Update / Online ROM Flash Component for Linux (x64) - MM1000JEFRC and MM2000JEFRC Drives	firmware-hdd-b04257b77b-HPD7-1.1.x86_64.rpm	MM2000JEFRC	HPD7	HPD7	
224	Supplemental Update / Online ROM Flash Component for Linux (x64) - MM1000JFJTH Drives	firmware-hdd-fa46c607d6-HPD2-1.1.x86_64.rpm	MM1000JFJTH	HPD2	HPD2	

### 6.2.13 Firmware - SATA Storage Disk

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
225	Online ROM Flash Component for Windows (x64) - MB001000GWCB and MB002000GWCB Drives	cp033049.exe	MB001000GWCB C	HPG4 (B)	HPG4	新規追加
226	Online ROM Flash Component for Windows (x64) - MB001000GWFVK and MB002000GFWL Drives	cp033051.exe	MB002000GFWL	HPG4 (B)	HPG4	
227	Online ROM Flash Component for Windows (x64) -	cp032395.exe	MB006000GWBX Q	HPG5	HPG5	新規追加

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
	MB006000GWBXQ and MB008000GWBXL Drives					
228	Online ROM Flash Component for Windows (x64) - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH, and MB4000GVYZK Drives	cp033037.exe	MB4000GVYZK	HPG4 (B)	HPG4	
229	Online ROM Flash Component for Windows (x64) - MB8000GFECR Drives	cp032307.exe	MB8000GFECR	HPG4	HPG4	
230	Online ROM Flash Component for Windows (x64) - MM1000GEFQV and MM2000GEFRA Drives	cp031319.exe	MM2000GEFRA	HPG5	HPG5	新規追加
231	Supplemental Update / Online ROM Flash Component for Linux (x64) - MB001000GWCBC and MB002000GWCBD Drives	firmware-hdd-68b12e54d2-HPG4-2.1.x86_64.rpm	MB001000GWCBC	HPG4 (B)	HPG4	新規追加
232	Supplemental Update / Online ROM Flash Component for Linux (x64) - MB001000GWFVK and MB002000GWFVL Drives	firmware-hdd-bfc4af697b-HPG4-2.1.x86_64.rpm	MB002000GWFVL	HPG4 (B)	HPG4	
233	Supplemental Update / Online ROM Flash Component for Linux (x64) - MB006000GWBXQ and MB008000GWBXL Drives	firmware-hdd-a1fd19f9ca-HPG5-1.1.x86_64.rpm	MB006000GWBXQ	HPG5	HPG5	新規追加
234	Supplemental Update / Online ROM Flash Component for Linux (x64) - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH, and MB4000GVYZK Drives	firmware-hdd-0a7010918e-HPG4-2.1.x86_64.rpm	MB4000GVYZK	HPG4 (B)	HPG4	
235	Supplemental Update / Online ROM Flash Component for Linux (x64) - MB8000GFECR Drives	firmware-hdd-6d922fc9a8-HPG4-2.1.x86_64.rpm	MB8000GFECR	HPG4 (B)	HPG4	
236	Supplemental Update / Online ROM Flash Component for Linux (x64) - MM1000GEFQV and MM2000GEFRA Drives	firmware-hdd-ec908c3650-HPG5-1.1.x86_64.rpm	MM2000GEFRA	HPG5	HPG5	新規追加

#### 6.2.14 Firmware - Storage Controller

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
237	Online ROM Flash Component for Windows (x64) - HPE 12Gb/s SAS Expander Firmware for HPE Smart Array Controllers and HPE HBA Controllers	cp033906.exe	HPE 12Gb SAS Expander Card	4.02	4.02	更新
238	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, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	cp032418.exe	HPE Smart Array P816i-a SR Gen10 Controller	1.34	1.34	更新
239	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, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	cp032418.exe	HPE Smart Array P408i-a SR Gen10 Controller	1.34	1.34	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
240	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, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	cp032418.exe	HPE Smart Array P408i-p SR Gen10 Controller	1.34	1.34	更新
241	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, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	cp032418.exe	HPE Smart Array E208e-p SR Gen10 Controller	1.34	1.34	更新
242	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, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	cp032418.exe	HPE Smart Array E208i-p SR Gen10 Controller	1.34	1.34	更新
243	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, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	cp032418.exe	HPE Smart Array E208i-a SR Gen10 Controller	1.34	1.34	更新
244	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	更新
245	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, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	firmware-smartarray-f7c07bdbbd-1.34-1.1.x86_64.rpm	HPE Smart Array P816i-a SR Gen10 Controller	1.34	1.34	更新
246	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, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	firmware-smartarray-f7c07bdbbd-1.34-1.1.x86_64.rpm	HPE Smart Array P408i-a SR Gen10 Controller	1.34	1.34	更新
247	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, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	firmware-smartarray-f7c07bdbbd-1.34-1.1.x86_64.rpm	HPE Smart Array P408i-p SR Gen10 Controller	1.34	1.34	更新
248	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, P204i-c,	firmware-smartarray-f7c07bdbbd-1.34-1.1.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	1.34	1.34	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
	P204i-b, P816i-a and P416ie-m SR Gen10					
249	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, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	firmware-smartarray-f7c07bdbbd-1.34-1.1.x86_64.rpm	HPE Smart Array E208i-p SR Gen10 Controller	1.34	1.34	更新
250	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, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	firmware-smartarray-f7c07bdbbd-1.34-1.1.x86_64.rpm	HPE Smart Array E208i-a SR Gen10 Controller	1.34	1.34	更新

### 6.2.15 Firmware - Storage Fibre Channel

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
251	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Linux (x64)	firmware-fc-emulex-2018.02.01-1.23.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	2018.02.01	11.4.225.21	更新
252	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Linux (x64)	firmware-fc-emulex-2018.02.01-1.23.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	2018.02.01	11.4.225.21	更新
253	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Linux (x64)	firmware-fc-emulex-2018.02.01-1.23.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	2018.02.01	11.4.225.21	更新
254	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Linux (x64)	firmware-fc-emulex-2018.02.01-1.23.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	2018.02.01	11.4.225.21	更新
255	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Windows 2012/2012 R2/2016 x64	cp032860.exe	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	2018.02.01	11.4.225.21	更新
256	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Windows 2012/2012 R2/2016 x64	cp032860.exe	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	2018.02.01	11.4.225.21	更新
257	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Windows 2012/2012 R2/2016 x64	cp032860.exe	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	2018.02.01	11.4.225.21	更新
258	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Windows 2012/2012 R2/2016 x64	cp032860.exe	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	2018.02.01	11.4.225.21	更新
259	HPE Firmware Flash for QLogic	firmware-fc-qlogic-2017	HPE StoreFabric	2017.09.01	01.70.51	

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
	Fibre Channel Host Bus Adapters - Linux (x86_64)	.09.01-1.5.x86_64.rpm	SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter			
260	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Linux (x86_64)	firmware-fc-qlogic-2017.09.01-1.5.x86_64.rpm	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	2017.09.01	01.70.51	
261	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Linux (x86_64)	firmware-fc-qlogic-2017.09.01-1.5.x86_64.rpm	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	2017.09.01	01.70.51	
262	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Linux (x86_64)	firmware-fc-qlogic-2017.09.01-1.5.x86_64.rpm	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	2017.09.01	01.70.51	
263	HPE Firmware Online Flash for QLogic Fibre Channel Host Bus Adapters - Windows 2012/2012R2/2016 (x64)	cp032435.exe	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	2017.09.01	01.70.51	
264	HPE Firmware Online Flash for QLogic Fibre Channel Host Bus Adapters - Windows 2012/2012R2/2016 (x64)	cp032435.exe	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	2017.09.01	01.70.51	
265	HPE Firmware Online Flash for QLogic Fibre Channel Host Bus Adapters - Windows 2012/2012R2/2016 (x64)	cp032435.exe	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	2017.09.01	01.70.51	
266	HPE Firmware Online Flash for QLogic Fibre Channel Host Bus Adapters - Windows 2012/2012R2/2016 (x64)	cp032435.exe	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	2017.09.01	01.70.51	

## 6.2.16 Firmware – System

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
267	Online Flash Component for Linux - Gen10 NVMe Backplane PIC Firmware	firmware-nvmebackplane-gen10-1.20-3.1.x86_64.rpm	NVMe Backplane PIC	1.20 (C)	1.20	更新
268	Online Flash Component for Linux - Gen10 NVMe Backplane PIC Firmware	firmware-nvmebackplane-gen10-1.20-3.1.x86_64.rpm	NVMe Backplane PIC	1.20 (C)	1.20	更新
269	Online Flash Component for Windows x64 - Gen10 NVMe Backplane PIC Firmware	cp034103.exe	NVMe Backplane PIC	1.20 (B)	1.20	更新
270	Online Flash Component for Windows x64 - Gen10 NVMe Backplane PIC Firmware	cp034103.exe	NVMe Backplane PIC	1.20 (B)	1.20	更新

## 6.2.17 Software - Lights-Out Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
271	HP Lights-Out Online Configuration Utility for Linux	hponcfg-5.2.0-0.x86_64.rpm	-	5.2.0-0	5.2.0-0	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
	(AMD64/EM64T)					
272	HP Lights-Out Online Configuration Utility for Windows x64 Editions	cp033351.exe	-	5.2.0.0	5.2.0.0	更新

### 6.2.18 Software - Storage Controller

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
273	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)	更新
274	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)	更新
275	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)	更新
276	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)	更新
277	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)	更新
278	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)	更新

### 6.2.19 Software - Storage Fibre Channel HBA

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
279	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	
280	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	
281	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	
282	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	
283	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	
284	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	
285	Fibreutils for HPE Storage Fibre	fibreutils-3.3-5.x86_64.rpm	HPE StoreFabric	3.3-5	3.3-5	

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
	Channel Host Bus Adapters for Linux (x86_64)	pm	SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter			
286	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	
287	HPE Emulex Fibre Channel Enablement Kit for Red Hat Enterprise Linux 6 Server	HP-CNA-FC-Emulex-Enablement-Kit-11.4.207.0-1.rhel6.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	11.4.207.0	11.4.207.0	更新
288	HPE Emulex Fibre Channel Enablement Kit for Red Hat Enterprise Linux 6 Server	HP-CNA-FC-Emulex-Enablement-Kit-11.4.207.0-1.rhel6.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	11.4.207.0	11.4.207.0	更新
289	HPE Emulex Fibre Channel Enablement Kit for Red Hat Enterprise Linux 6 Server	HP-CNA-FC-Emulex-Enablement-Kit-11.4.207.0-1.rhel6.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	11.4.207.0	11.4.207.0	更新
290	HPE Emulex Fibre Channel Enablement Kit for Red Hat Enterprise Linux 6 Server	HP-CNA-FC-Emulex-Enablement-Kit-11.4.207.0-1.rhel6.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	11.4.207.0	11.4.207.0	更新
291	HPE Emulex Fibre Channel Enablement Kit for Red Hat Enterprise Linux 7 Server	HP-CNA-FC-Emulex-Enablement-Kit-11.4.207.0-1.rhel7.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	11.4.207.0	11.4.207.0	更新
292	HPE Emulex Fibre Channel Enablement Kit for Red Hat Enterprise Linux 7 Server	HP-CNA-FC-Emulex-Enablement-Kit-11.4.207.0-1.rhel7.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	11.4.207.0	11.4.207.0	更新
293	HPE Emulex Fibre Channel Enablement Kit for Red Hat Enterprise Linux 7 Server	HP-CNA-FC-Emulex-Enablement-Kit-11.4.207.0-1.rhel7.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	11.4.207.0	11.4.207.0	更新
294	HPE Emulex Fibre Channel Enablement Kit for Red Hat Enterprise Linux 7 Server	HP-CNA-FC-Emulex-Enablement-Kit-11.4.207.0-1.rhel7.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	11.4.207.0	11.4.207.0	更新
295	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 Adapter	1.0.0.0-4 (b)	1.0.0.0-4 (b)	更新
296	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)	更新
297	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)	更新

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
298	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)	更新
299	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)	更新
300	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)	更新
301	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)	更新
302	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)	更新
303	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)	更新
304	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)	更新
305	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)	更新
306	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)	更新
307	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)	更新
308	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 Channel Host Bus Adapter	3.3-3 (b)	3.3-3 (b)	更新
309	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)	更新
310	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)	更新



No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
			Adapter			
311	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)	更新
312	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)	更新
313	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)	更新
314	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)	更新

## 6.2.20 Software - System Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
315	Agentless Management Service (iLO 5) for Red Hat Enterprise Linux 6 Server	amsd-1.2.0-2657.39.rhel6.x86_64.rpm	-	1.2.0	1.2.0	更新
316	Agentless Management Service (iLO 5) for Red Hat Enterprise Linux 7 Server	amsd-1.2.0-2657.49.rhel7.x86_64.rpm	-	1.2.0	1.2.0	更新
317	Agentless Management Service for Windows X64	cp032759.exe	-	1.20.0.0	1.20.0.0	更新
318	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)	更新
319	Smart Storage Administrator (SSA) CLI for Linux 64-bit	ssacli-3.25-4.0.x86_64.rpm	-	3.25-4.0	3.25-4.0	更新
320	Smart Storage Administrator (SSA) CLI for Windows 64-bit	cp032650.exe	-	3.25.4.0	3.25.4.0	更新
321	Smart Storage Administrator (SSA) for Linux 64-bit	ssa-3.25-4.0.x86_64.rpm	-	3.25-4.0	3.25-4.0	更新
322	Smart Storage Administrator (SSA) for Windows 64-bit	cp032649.exe	-	3.25.4.0	3.25.4.0	更新
323	Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Linux 64-bit	ssaducli-3.25-4.0.x86_64.rpm	-	3.25-4.0	3.25-4.0	更新
324	Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Windows 64-bit	cp032651.exe	-	3.25.4.0	3.25.4.0	更新

## 6.3 パッケージの変更内容

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### Online ROM Flash Component for Linux - OEM System ROM U34

Version: 1.36\_02-14-2018 (Optional)

#### **Problems Fixed**

Addressed an issue where the UEFI Boot Order would not get reset to a default value when loading a default configuration. This issue does not impact systems configured in Legacy Boot Mode.

Addressed an issue where the High Performance Event Timer (HPET) may not function properly under an Operating System. This was typically seen under a Windows Operating System where the HPET was reported as not functioning properly in Windows Device Manager.

Addressed an issue where the Embedded Serial Port option could not be properly configured through the RESTful Interface.

Addressed an issue where the PCI Express I/O Proximity values were not properly allocated in the ACPI System Locality Information Table (SLIT). This change may help provide a performance benefit in applications and configurations that are sensitive to PCIe Device I/O NUMA awareness.

Addressed a rare issue where the system may become unresponsive when a SAS drive was inserted with the HPE Smart Array S100i SR Gen10 SW RAID enabled. This issue does not impact systems configured in AHCI mode.

Addressed an issue where the system may experience an erroneous boot-time message and Integrated Management Log (IML) entry stating that Core Boost Technology is disabled due to a lack of an iLO Advanced License (531 - Core Boost Technology missing required iLO License) when using the Version 1.20 System ROM. This issue does NOT occur with the Version 1.00 or Version 1.22 System ROM. Note that this IML entry is only valid for servers using the Intel Xeon Scalable 6143 processor. If the message and IML entry are received with any other processor model installed, the message is erroneous and can be ignored without any negative impact to the system.

#### **Enhancements**

Added new Storage Information page to the System Information section of System Utilities.

Added a new BIOS/Platform Configuration (RBSU) Advanced PCIe Configuration option for PCIe Bifurcation of PCI Express Slots. When enabled, this option will bifurcate a PCIe slot into two equal width slots. This option is used for certain PCIe option cards that support/require bifurcation.

Added a new BIOS/Platform Configuration (RBSU) Power and Performance option for Direct to UPI. When Enabled, this option can provide a performance benefit in multi-processor configured systems that are reliant on the UPI bus for remote memory or I/O accesses.

Added a new BIOS/Platform Configuration (RBSU) Thermal Configuration option for Enhanced CPU Cooling. When running certain processor intensive workloads, this option can provide additional cooling to the processors which can result in improved performance.

Added a new System Utilities option for Embedded Diagnostics. To take advantage of this feature, the user must also update Intelligent Provisioning to version 3.10 or later.

Added support for the Integrated Lights-Out (iLO) virtual wheel mouse functionality in the BIOS System Utilities application. This feature also requires iLO firmware version 1.20 or later for proper support.

Added RESTful API configuration support for the HPE Smart Array S100i SR Gen10 SW RAID controller.

Improved performance with applications and configurations that are sensitive to PCIe Device I/O NUMA awareness. This change optimally allocates the PCI Express I/O Proximity values in the ACPI System Locality Information Table (SLIT).

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.

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## **Online ROM Flash Component for Linux - System ROM U30**

Version: 1.36\_02-15-2018 (Optional)

### **Problems Fixed**

Addressed an issue where the UEFI Boot Order would not get reset to a default value when loading a default configuration. This issue does not impact systems configured in Legacy Boot Mode.

Addressed an issue where the High Performance Event Timer (HPET) may not function properly under an Operating System. This was typically seen under a Windows Operating System where the HPET was reported as not functioning properly in Windows Device Manager.

Addressed an issue where the Embedded Serial Port option could not be properly configured through the RESTful Interface.

Addressed an issue where the PCI Express I/O Proximity values were not properly allocated in the ACPI System Locality Information Table (SLIT). This change may help provide a performance benefit in applications and configurations that are sensitive to PCIe Device I/O NUMA awareness.

Addressed a rare issue where the system may become unresponsive when a SAS drive was inserted with the HPE Smart Array S100i SR Gen10 SW RAID enabled. This issue does not impact systems configured in AHCI mode.

Addressed an issue where the system may experience an erroneous boot-time message and Integrated Management Log (IML) entry stating that Core Boost Technology is disabled due to a lack of an iLO Advanced License (531 - Core Boost Technology missing required iLO License) when using the Version 1.20 System ROM. This issue does NOT occur with the Version 1.00 or Version 1.22 System ROM. Note that this IML entry is only valid for servers using the Intel Xeon Scalable 6143 processor. If the message and IML entry are received with any other processor model installed, the message is erroneous and can be ignored without any negative impact to the system.

### **Enhancements**

Added new Storage Information page to the System Information section of System Utilities.

Added a new BIOS/Platform Configuration (RBSU) Advanced PCIe Configuration option for PCIe Bifurcation of PCI Express Slots. When enabled, this option will bifurcate a PCIe slot into two equal width slots. This option is used for certain PCIe option cards that support/require bifurcation.

Added a new BIOS/Platform Configuration (RBSU) Power and Performance option for Direct to UPI. When Enabled, this option can provide a performance benefit in multi-processor configured systems that are reliant on the UPI bus for remote memory or I/O accesses.

Added a new BIOS/Platform Configuration (RBSU) Thermal Configuration option for Enhanced CPU Cooling.

When running certain processor intensive workloads, this option can provide additional cooling to the processors which can result in improved performance.

Added a new System Utilities option for Embedded Diagnostics. To take advantage of this feature, the user must also update Intelligent Provisioning to version 3.10 or later.

Added support for the Integrated Lights-Out (iLO) virtual wheel mouse functionality in the BIOS System Utilities application. This feature also requires iLO firmware version 1.20 or later for proper support.

Added RESTful API configuration support for the HPE Smart Array S100i SR Gen10 SW RAID controller.

Improved performance with applications and configurations that are sensitive to PCIe Device I/O NUMA awareness. This change optimally allocates the PCI Express I/O Proximity values in the ACPI System Locality Information Table (SLIT).

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.

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## Online ROM Flash Component for Linux - System ROM U32

Version: 1.36\_02-14-2018 (Optional)

### Problems Fixed

Addressed an issue where the UEFI Boot Order would not get reset to a default value when loading a default configuration. This issue does not impact systems configured in Legacy Boot Mode.

Addressed an issue where the High Performance Event Timer (HPET) may not function properly under an Operating System. This was typically seen under a Windows Operating System where the HPET was reported as not functioning properly in Windows Device Manager.

Addressed an issue where the Embedded Serial Port option could not be properly configured through the RESTful Interface.

Addressed an issue where the PCI Express I/O Proximity values were not properly allocated in the ACPI System Locality Information Table (SLIT). This change may help provide a performance benefit in applications and configurations that are sensitive to PCIe Device I/O NUMA awareness.

Addressed a rare issue where the system may become unresponsive when a SAS drive was inserted with the HPE Smart Array S100i SR Gen10 SW RAID enabled. This issue does not impact systems configured in AHCI mode.

Addressed an issue where the system may experience an erroneous boot-time message and Integrated Management Log (IML) entry stating that Core Boost Technology is disabled due to a lack of an iLO Advanced License (531 - Core Boost Technology missing required iLO License) when using the Version 1.20 System ROM. This issue does NOT occur with the Version 1.00 or Version 1.22 System ROM. Note that this IML entry is only valid for servers using the Intel Xeon Scalable 6143 processor. If the message and IML entry are received with any other processor model installed, the message is erroneous and can be ignored without any negative impact to the system.

### Enhancements

Added new Storage Information page to the System Information section of System Utilities.

Added a new BIOS/Platform Configuration (RBSU) Advanced PCIe Configuration option for PCIe Bifurcation

of PCI Express Slots. When enabled, this option will bifurcate a PCIe slot into two equal width slots. This option is used for certain PCIe option cards that support/require bifurcation.

Added a new BIOS/Platform Configuration (RBSU) Power and Performance option for Direct to UPI. When Enabled, this option can provide a performance benefit in multi-processor configured systems that are reliant on the UPI bus for remote memory or I/O accesses.

Added a new BIOS/Platform Configuration (RBSU) Thermal Configuration option for Enhanced CPU Cooling. When running certain processor intensive workloads, this option can provide additional cooling to the processors which can result in improved performance.

Added a new System Utilities option for Embedded Diagnostics. To take advantage of this feature, the user must also update Intelligent Provisioning to version 3.10 or later.

Added support for the Integrated Lights-Out (iLO) virtual wheel mouse functionality in the BIOS System Utilities application. This feature also requires iLO firmware version 1.20 or later for proper support.

Added RESTful API configuration support for the HPE Smart Array S100i SR Gen10 SW RAID controller.

Improved performance with applications and configurations that are sensitive to PCIe Device I/O NUMA awareness. This change optimally allocates the PCI Express I/O Proximity values in the ACPI System Locality Information Table (SLIT).

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.

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## **Online ROM Flash Component for Linux - System ROM U41**

Version: 1.36\_02-14-2018 (Optional)

### **Problems Fixed**

Addressed an issue where the UEFI Boot Order would not get reset to a default value when loading a default configuration. This issue does not impact systems configured in Legacy Boot Mode.

Addressed an issue where the High Performance Event Timer (HPET) may not function properly under an Operating System. This was typically seen under a Windows Operating System where the HPET was reported as not functioning properly in Windows Device Manager.

Addressed an issue where the Embedded Serial Port option could not be properly configured through the RESTful Interface.

Addressed an issue where the PCI Express I/O Proximity values were not properly allocated in the ACPI System Locality Information Table (SLIT). This change may help provide a performance benefit in applications and configurations that are sensitive to PCIe Device I/O NUMA awareness.

Addressed a rare issue where the system may become unresponsive when a SAS drive was inserted with the HPE Smart Array S100i SR Gen10 SW RAID enabled. This issue does not impact systems configured in AHCI mode.

Addressed an issue where the system may experience an erroneous boot-time message and Integrated Management Log (IML) entry stating that Core Boost Technology is disabled due to a lack of an iLO Advanced License (531 - Core Boost Technology missing required iLO License) when using the Version 1.20 System ROM. This issue does NOT occur with the Version 1.00 or Version 1.22 System ROM. Note that this

IML entry is only valid for servers using the Intel Xeon Scalable 6143 processor. If the message and IML entry are received with any other processor model installed, the message is erroneous and can be ignored without any negative impact to the system.

### **Enhancements**

Added new Storage Information page to the System Information section of System Utilities.

Added a new BIOS/Platform Configuration (RBSU) Advanced PCIe Configuration option for PCIe Bifurcation of PCI Express Slots. When enabled, this option will bifurcate a PCIe slot into two equal width slots. This option is used for certain PCIe option cards that support/require bifurcation.

Added a new BIOS/Platform Configuration (RBSU) Power and Performance option for Direct to UPI. When Enabled, this option can provide a performance benefit in multi-processor configured systems that are reliant on the UPI bus for remote memory or I/O accesses.

Added a new BIOS/Platform Configuration (RBSU) Thermal Configuration option for Enhanced CPU Cooling. When running certain processor intensive workloads, this option can provide additional cooling to the processors which can result in improved performance.

Added a new System Utilities option for Embedded Diagnostics. To take advantage of this feature, the user must also update Intelligent Provisioning to version 3.10 or later.

Added support for the Integrated Lights-Out (iLO) virtual wheel mouse functionality in the BIOS System Utilities application. This feature also requires iLO firmware version 1.20 or later for proper support.

Added RESTful API configuration support for the HPE Smart Array S100i SR Gen10 SW RAID controller.

Improved performance with applications and configurations that are sensitive to PCIe Device I/O NUMA awareness. This change optimally allocates the PCI Express I/O Proximity values in the ACPI System Locality Information Table (SLIT).

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.

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

Version: 1.36\_02-14-2018 (Optional)

### **Problems Fixed**

Addressed an issue where the UEFI Boot Order would not get reset to a default value when loading a default configuration. This issue does not impact systems configured in Legacy Boot Mode.

Addressed an issue where the High Performance Event Timer (HPET) may not function properly under an Operating System. This was typically seen under a Windows Operating System where the HPET was reported as not functioning properly in Windows Device Manager.

Addressed an issue where the Embedded Serial Port option could not be properly configured through the RESTful Interface.

Addressed an issue where the PCI Express I/O Proximity values were not properly allocated in the ACPI System Locality Information Table (SLIT). This change may help provide a performance benefit in applications and configurations that are sensitive to PCIe Device I/O NUMA awareness.

Addressed a rare issue where the system may become unresponsive when a SAS drive was inserted with

the HPE Smart Array S100i SR Gen10 SW RAID enabled. This issue does not impact systems configured in AHCI mode.

Addressed an issue where the system may experience an erroneous boot-time message and Integrated Management Log (IML) entry stating that Core Boost Technology is disabled due to a lack of an iLO Advanced License (531 - Core Boost Technology missing required iLO License) when using the Version 1.20 System ROM. This issue does NOT occur with the Version 1.00 or Version 1.22 System ROM. Note that this IML entry is only valid for servers using the Intel Xeon Scalable 6143 processor. If the message and IML entry are received with any other processor model installed, the message is erroneous and can be ignored without any negative impact to the system.

### **Enhancements**

Added new Storage Information page to the System Information section of System Utilities.

Added a new BIOS/Platform Configuration (RBSU) Advanced PCIe Configuration option for PCIe Bifurcation of PCI Express Slots. When enabled, this option will bifurcate a PCIe slot into two equal width slots. This option is used for certain PCIe option cards that support/require bifurcation.

Added a new BIOS/Platform Configuration (RBSU) Power and Performance option for Direct to UPI. When Enabled, this option can provide a performance benefit in multi-processor configured systems that are reliant on the UPI bus for remote memory or I/O accesses.

Added a new BIOS/Platform Configuration (RBSU) Thermal Configuration option for Enhanced CPU Cooling. When running certain processor intensive workloads, this option can provide additional cooling to the processors which can result in improved performance.

Added a new System Utilities option for Embedded Diagnostics. To take advantage of this feature, the user must also update Intelligent Provisioning to version 3.10 or later.

Added support for the Integrated Lights-Out (iLO) virtual wheel mouse functionality in the BIOS System Utilities application. This feature also requires iLO firmware version 1.20 or later for proper support.

Added RESTful API configuration support for the HPE Smart Array S100i SR Gen10 SW RAID controller. Improved performance with applications and configurations that are sensitive to PCIe Device I/O NUMA awareness. This change optimally allocates the PCI Express I/O Proximity values in the ACPI System Locality Information Table (SLIT).

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.

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### **Online ROM Flash Component for Windows x64 - System ROM U30**

Version: 1.36\_02-15-2018 (Optional)

### **Problems Fixed**

Addressed an issue where the UEFI Boot Order would not get reset to a default value when loading a default configuration. This issue does not impact systems configured in Legacy Boot Mode.

Addressed an issue where the High Performance Event Timer (HPET) may not function properly under an Operating System. This was typically seen under a Windows Operating System where the HPET was reported as not functioning properly in Windows Device Manager.

Addressed an issue where the Embedded Serial Port option could not be properly configured through the RESTful Interface.

Addressed an issue where the PCI Express I/O Proximity values were not properly allocated in the ACPI System Locality Information Table (SLIT). This change may help provide a performance benefit in applications and configurations that are sensitive to PCIe Device I/O NUMA awareness.

Addressed a rare issue where the system may become unresponsive when a SAS drive was inserted with the HPE Smart Array S100i SR Gen10 SW RAID enabled. This issue does not impact systems configured in AHCI mode.

Addressed an issue where the system may experience an erroneous boot-time message and Integrated Management Log (IML) entry stating that Core Boost Technology is disabled due to a lack of an iLO Advanced License (531 - Core Boost Technology missing required iLO License) when using the Version 1.20 System ROM. This issue does NOT occur with the Version 1.00 or Version 1.22 System ROM. Note that this IML entry is only valid for servers using the Intel Xeon Scalable 6143 processor. If the message and IML entry are received with any other processor model installed, the message is erroneous and can be ignored without any negative impact to the system.

## **Enhancements**

Added new Storage Information page to the System Information section of System Utilities.

Added a new BIOS/Platform Configuration (RBSU) Advanced PCIe Configuration option for PCIe Bifurcation of PCI Express Slots. When enabled, this option will bifurcate a PCIe slot into two equal width slots. This option is used for certain PCIe option cards that support/require bifurcation.

Added a new BIOS/Platform Configuration (RBSU) Power and Performance option for Direct to UPI. When Enabled, this option can provide a performance benefit in multi-processor configured systems that are reliant on the UPI bus for remote memory or I/O accesses.

Added a new BIOS/Platform Configuration (RBSU) Thermal Configuration option for Enhanced CPU Cooling. When running certain processor intensive workloads, this option can provide additional cooling to the processors which can result in improved performance.

Added a new System Utilities option for Embedded Diagnostics. To take advantage of this feature, the user must also update Intelligent Provisioning to version 3.10 or later.

Added support for the Integrated Lights-Out (iLO) virtual wheel mouse functionality in the BIOS System Utilities application. This feature also requires iLO firmware version 1.20 or later for proper support.

Added RESTful API configuration support for the HPE Smart Array S100i SR Gen10 SW RAID controller.

Improved performance with applications and configurations that are sensitive to PCIe Device I/O NUMA awareness. This change optimally allocates the PCI Express I/O Proximity values in the ACPI System Locality Information Table (SLIT).

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.



## **Problems Fixed**

Addressed an issue where the UEFI Boot Order would not get reset to a default value when loading a default configuration. This issue does not impact systems configured in Legacy Boot Mode.

Addressed an issue where the High Performance Event Timer (HPET) may not function properly under an Operating System. This was typically seen under a Windows Operating System where the HPET was reported as not functioning properly in Windows Device Manager.

Addressed an issue where the Embedded Serial Port option could not be properly configured through the RESTful Interface.

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Addressed an issue where the system may experience an erroneous boot-time message and Integrated Management Log (IML) entry stating that Core Boost Technology is disabled due to a lack of an iLO Advanced License (531 - Core Boost Technology missing required iLO License) when using the Version 1.20 System ROM. This issue does NOT occur with the Version 1.00 or Version 1.22 System ROM. Note that this IML entry is only valid for servers using the Intel Xeon Scalable 6143 processor. If the message and IML entry are received with any other processor model installed, the message is erroneous and can be ignored without any negative impact to the system.

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Added RESTful API configuration support for the HPE Smart Array S100i SR Gen10 SW RAID controller.

Improved performance with applications and configurations that are sensitive to PCIe Device I/O NUMA awareness. This change optimally allocates the PCI Express I/O Proximity values in the ACPI System Locality Information Table (SLIT).

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.

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## **Online ROM Flash Component for Windows x64 - System ROM U41**

Version: 1.36\_02-14-2018 (Optional)

### **Problems Fixed**

Addressed an issue where the UEFI Boot Order would not get reset to a default value when loading a default configuration. This issue does not impact systems configured in Legacy Boot Mode.

Addressed an issue where the High Performance Event Timer (HPET) may not function properly under an Operating System. This was typically seen under a Windows Operating System where the HPET was reported as not functioning properly in Windows Device Manager.

Addressed an issue where the Embedded Serial Port option could not be properly configured through the RESTful Interface.

Addressed an issue where the PCI Express I/O Proximity values were not properly allocated in the ACPI System Locality Information Table (SLIT). This change may help provide a performance benefit in applications and configurations that are sensitive to PCIe Device I/O NUMA awareness.

Addressed a rare issue where the system may become unresponsive when a SAS drive was inserted with the HPE Smart Array S100i SR Gen10 SW RAID enabled. This issue does not impact systems configured in AHCI mode.

Addressed an issue where the system may experience an erroneous boot-time message and Integrated Management Log (IML) entry stating that Core Boost Technology is disabled due to a lack of an iLO Advanced License (531 - Core Boost Technology missing required iLO License) when using the Version 1.20 System ROM. This issue does NOT occur with the Version 1.00 or Version 1.22 System ROM. Note that this IML entry is only valid for servers using the Intel Xeon Scalable 6143 processor. If the message and IML entry are received with any other processor model installed, the message is erroneous and can be ignored without any negative impact to the system.

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Added support for the Integrated Lights-Out (iLO) virtual wheel mouse functionality in the BIOS System Utilities application. This feature also requires iLO firmware version 1.20 or later for proper support.

Added RESTful API configuration support for the HPE Smart Array S100i SR Gen10 SW RAID controller.

Improved performance with applications and configurations that are sensitive to PCIe Device I/O NUMA awareness. This change optimally allocates the PCI Express I/O Proximity values in the ACPI System Locality Information Table (SLIT).

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.

---

### **iLO 5 Automatic Server Recovery Driver for Windows Server 2016**

Version: 4.2.0.0 (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**

Initial release.

---

### **iLO 5 Automatic Server Recovery Driver for Windows Server 2012R2**

Version: 4.2.0.0 (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**

Initial release.

---

### **Identifiers for Intel Xeon Processor Scalable Family for Windows**

Version: 10.1.2.86 (Optional)

#### **Enhancements**

Updated to match the latest release available from Intel. There are no functional differences between versions 10.1.2.85 and 10.1.2.86.

---

### **HPE Broadcom NX1 1Gb Driver for Windows Server x64 Editions**

Version: 20.8.0.0 (Optional)

#### **Important Note!**

HPE recommends the firmware provided in HPE Broadcom NX1 Online Firmware Upgrade Utility for

Windows Server x64 Editions, version 5.1.2.2 or later, for use with this driver.

### **Fixes**

This driver corrects a Windows Stop Error (BSOD) which occurs during interrupt handling when the driver is unloading.

### **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: 3.137u-1 (Optional)

### **Important Note!**

HPE recommends the firmware provided in HPE NX1 Broadcom Online Firmware Upgrade Utility for Linux x86\_64, version 2.20.7 or later, for use with these drivers.

### **Fixes**

This product addresses an issue where a transmit timeout is seen in the syslog when NIC interfaces run at 100Mb.

### **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: 3.137u-1 (Optional)

### **Important Note!**

HPE recommends the firmware provided in HPE NX1 Broadcom Online Firmware Upgrade Utility for Linux x86\_64, version 2.20.7 or later, for use with these drivers.

### **Fixes**

This product addresses an issue where a transmit timeout is seen in the syslog when NIC interfaces run at 100Mb.

### **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: 2.3.6-1 (Optional)

### **Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86\_64, version 1.14.13 or later, for use with these drivers.

### **Fixes**

This product addresses an issue where ethtool -m does not function correctly when SFP Direct Attach cables are plugged in.

This product addresses an issue seen on devices with CRT\_RETIMER where advertising autoneg is set, but supported autoneg is not.

This product now correctly responds with an error when an unsupported link mode is requested.

This product corrects an issue where the device features of a virtual function in Virtual Switch VLAN Tagging (VST) mode cannot be changed.

This product addresses an issue where the VxLAN offload counter increments without a VxLAN tunnel being present.

This product addresses an issue where kdump fails when the i40e driver is loaded.

### **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: 2.3.6-1 (Optional)

### **Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86\_64, version 1.14.13 or later, for use with these drivers.

### **Fixes**

This product addresses an issue where ethtool -m does not function correctly when SFP Direct Attach cables are plugged in.

This product addresses an issue seen on devices with CRT\_RETIMER where advertising autoneg is set, but supported autoneg is not.

This product now correctly responds with an error when an unsupported link mode is requested.

This product corrects an issue where the device features of a virtual function in Virtual Switch VLAN Tagging (VST) mode cannot be changed.

This product addresses an issue where the VxLAN offload counter increments without a VxLAN tunnel being present.

This product addresses an issue where kdump fails when the i40e driver is loaded.

### **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

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## **HPE Intel i40ea Driver for Windows Server 2012 R2**

Version: 1.8.83.0 (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.

### **Fixes**

This driver corrects an issue which results in the Windows Stop Error (BSOD) - WHEA\_INTERNAL\_ERROR during server shutdown.

### **Supported Devices and Features**

This product supports the following network adapters:  
HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter

### **HPE Intel i40ea Driver for Windows Server 2016**

Version: 1.8.83.0 (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.

#### **Fixes**

This driver corrects an issue which results in the Windows Stop Error (BSOD) - WHEA\_INTERNAL\_ERROR during server shutdown.

#### **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

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### **HPE Intel i40eb Driver for Windows Server 2012 R2**

Version: 1.8.83.0 (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.

#### **Fixes**

This driver corrects an issue which results in a routing error when VLAN is applied.

This driver corrects an issue which results in the Windows Stop Error (BSOD) - WHEA\_INTERNAL\_ERROR during server shutdown.

#### **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: 1.8.83.0 (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.

#### **Fixes**

This driver corrects an issue which results in a routing error when VLAN is applied.

This driver corrects an issue which results in the Windows Stop Error (BSOD) - WHEA\_INTERNAL\_ERROR

during server shutdown.

### **Supported Devices and Features**

This product supports the following network adapters:

HPE Ethernet 1Gb 4-port 369i Adapter

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### **HPE Intel i40evf Drivers for Red Hat Enterprise Linux 6 x86\_64**

Version: 3.2.5-1 (Optional)

### **Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86\_64, version 1.14.13 or later, for use with these drivers.

### **Fixes**

This product addresses an issue where ethtool -m does not function correctly when SFP Direct Attach cables are plugged in.

This product corrects an issue where the device features of a virtual function in Virtual Switch VLAN Tagging (VST) mode cannot be changed.

### **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

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### **HPE Intel i40evf Drivers for Red Hat Enterprise Linux 7 x86\_64**

Version: 3.2.5-1 (Optional)

### **Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86\_64, version 1.14.13 or later, for use with these drivers.

### **Fixes**

This product addresses an issue where ethtool -m does not function correctly when SFP Direct Attach cables are plugged in.

This product corrects an issue where the device features of a virtual function in Virtual Switch VLAN Tagging (VST) mode cannot be changed.

This product addresses a failure to pass traffic from a bond/virtual function in RHEL7.3 using lovQueuePairsRequested setting above 1 with "MCP" on a Windows Server 2016 host.

### **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

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## **HPE Intel igb Drivers for Red Hat Enterprise Linux 6 x86\_64**

Version: 5.3.5.12-1 (Optional)

### **Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86\_64, version 1.14.13 or later, for use with these drivers.

### **Fixes**

This product addresses a failure seen when attempting to configure an ethernet interface with a Maximum Transmission Size (MTU) size greater than 1500 bytes.

### **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

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## **HPE Intel igb Drivers for Red Hat Enterprise Linux 7 x86\_64**

Version: 5.3.5.12-1 (Optional)

### **Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86\_64, version 1.14.13 or later, for use with these drivers.

### **Fixes**

This product addresses a failure seen when attempting to configure an ethernet interface with a Maximum Transmission Size (MTU) size greater than 1500 bytes.

### **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 v40e Driver for Windows Server 2012 R2**

Version: 1.5.65.0 (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**

Initial release.

## **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: 1.5.65.0 (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**

Initial release.

## **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

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## **HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 6 x86\_64**

Version: 7.14.38-1 (Optional)

## **Important Note!**

HPE recommends the firmware provided in HPE QLogic NX2 Online Firmware Upgrade Utility for Linux x86\_64, version 2.21.15 or later, for use with these drivers.

## **Fixes**

The bnx2fc driver in this product no longer causes unexpected system reboots.

This product addresses a failure of a Fabric Login (FLOGI) to a switch if the Fibre Channel Forwarded-Media Access Control (FCF-MAC) address is not the default value.

This product addresses a failure seen when setting the Port VLAN ID (PVID) on a virtual function using IP tools.

This product addresses an OS crash seen when Fabric Attach is toggled.

## **Enhancements**

This product now provides information that allows `ethtool -i` to display the Multi-Boot Image (MBI) version.

## **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: 7.14.38-1 (Optional)

### **Important Note!**

HPE recommends the firmware provided in HPE QLogic NX2 Online Firmware Upgrade Utility for Linux x86\_64, version 2.21.15 or later, for use with these drivers.

### **Fixes**

The bnx2fc driver in this product no longer causes unexpected system reboots.

This product addresses a failure of a Fabric Login (FLOGI) to a switch if the Fibre Channel Forwarded-Media Access Control (FCF-MAC) address is not the default value.

This product addresses a failure seen when setting the Port VLAN ID (PVID) on a virtual function using IP tools.

This product addresses an OS crash seen when Fabric Attach is toggled.

### **Enhancements**

This product now provides information that allows `ethtool -i` to display the Multi-Boot Image (MBI) version.

### **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: 7.13.118.0 (Optional)

### **Important Note!**

HP recommends the firmware provided in HPE QLogic NX2 Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.1.2.2 or later, for use with these drivers.

### **Fixes**

This driver corrects an issue which results in the incorrect reporting of link failure during a switch reset.

This driver corrects an issue which results in a Windows Stop Error (BSOD) during Virtual Machine Queue (VMQ) processing.

### **Enhancements**

Virtual function friendly names have been updated to match physical function names.

This driver now allows storage clients to use Smart Storage Area Networks (SAN).

### **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 (Recommended)

#### **Fixes**

1. Fixed an issue where the drive's failure LED may not consistently light in certain cases of drive failure.
2. Fixed an issue where an Optical/DVD device may not report its vendor identification.

#### **Enhancements**

Added RESTful API support for the HPE Smart Array S100i SR Gen10 SW RAID.

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

Version: 1.1.2-125 (Recommended)

#### **Fixes**

RPM might fail installation due to missing dependency.

### **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: 1.1.2-125 (Recommended)

#### **Fixes**

RPM might fail installation due to missing dependency.

### **Supported Devices and Features**

SUPPORTED KERNELS:

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

3.10.0-514.el7- Red Hat Enterprise Linux 7 Update 3 (64-bit) and future errata kernels for update 3.

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: 100.52.1.64 (Recommended)

#### **Enhancements**

Enhanced controller cache management when doing an OS shutdown, hibernate, or sleep.

Enabled PCI Passthrough on Hyper-V.

---

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

Version: 11.4.225.9 (Recommended)

### **Enhancements**

Added support to the following:

Enable Buffer to Buffer credit (BB\_credit) recovery using the Fibre Channel (FC) primitives

Updated to driver version 11.4.225.9

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:

```
elxdrv-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

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

Version: 11.4.142.26 (Recommended)

### **Enhancements**

Added support to the following:

Enable Buffer to Buffer credit (BB\_credit) recovery using the Fibre Channel (FC) primitives

Updated to version 11.4.142.26

### **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

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

Version: 11.4.142.26 (Recommended)

### Enhancements

Added support to the following:

Enable Buffer to Buffer credit (BB\_credit) recovery using the Fibre Channel (FC) primitives

Updated to version 11.4.142.26

### 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

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## iLO 5 Channel Interface Driver for Windows Server 2012 R2

Version: 4.1.0.0 (B) (Optional)

### Fixes

This component no longer installs a null driver on iLO 5 PCI function 0. Support for that function is now provided by the iLO 5 Automatic Server Recovery Driver.

---

## iLO 5 Channel Interface Driver for Windows Server 2016

Version: 4.1.0.0 (B) (Optional)

### Fixes

This component no longer installs a null driver on iLO 5 PCI function 0. Support for that function is now provided by the iLO 5 Automatic Server Recovery Driver.

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## Matrox G200eH3 Video Controller Driver for Windows Server 2012 R2

Version: 9.15.1.184 (Optional)

### Enhancements

Initial release.

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## Matrox G200eH3 Video Controller Driver for Windows Server 2016

Version: 9.15.1.184 (Optional)

### Enhancements

Initial release.

---

## Language Pack - Japanese

Version: 1.15 (Optional)

### Problems Fixed

Fixed untranslated text.

### Enhancements

Japanese Language Pack to support iLO5 firmware v1.15.

---

## Online ROM Flash Component for Linux - iLO 5

Version: 1.20 (Recommended)

### Important Note!

Users should update to this firmware version if their system is affected by one of the documented fixes or if there is a desire to utilize any of the enhanced functionality provided by this version.

IPv6 network communications - Dedicated network connection only

Supported Networking Features

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

Networking Features not supported by IPv6 in this release

- IPv6 Over Shared Network Port Connections

- IPMI
- NETBIOS-WINS
- Enterprise Secure Key Manager (ESKM) Support
- Embedded Remote Support (ERS)

## **Fixes**

No traps from the System Management Assistant are received when SNMP is disabled in the iLO web interface.

The power profile cannot be changed through the iLO web interface.

Network transmission graph data is not populated in Active Health System logs.

The NVDIMM firmware version is not displayed on the iLO web interface Installed Firmware page.

The iLO web interface intermittently displays incorrect memory status after a system reset.

The iLO RESTful API does not provide a method to get current cipher information.

The Server Power page stalls when loading the server power information.

Nothing happens when you click the Import button on the HPE SSO page.

Secure boot cannot be configured through the iLO RESTful API, even if the pending configuration is in UEFI mode.

The maximum available power is displayed incorrectly.

If the IML contains a maintenance note, the first attempt to clear the log fails.

Certificate-based authentication returns a session URL with inconsistent case.

Onetimeboot and Continuousboot do not take effect in iLOrest.

Virtual Media status is not displayed in the Java IRC.

The local client keyboard might get disabled when the Java IRC is in use.

An iLO Federation authentication error might occur when group names with unsupported characters are used in URLs without correct encoding.

An issue occurs when copying or restoring certificate mapping entries using fingerprints.

An iLO web interface error occurs after an installed certificate was deleted by using the iLO RESTful API.

An Internal Error occurs when HPONCFG for Linux is used with a server that uses the SuiteB security state.

SNMPv3 user details cannot be modified through RIBCL.

A false positive “Insecure Cache Management Policy” issue is reported by some security scanners.

## **Enhancements**

iLO backup and restore—This feature allows you to restore the iLO configuration on a system with the same hardware configuration as the system that was backed up. For example, you could use this feature if the system board is replaced, an accidental or incorrect configuration change occurred, or iLO was set to the factory default settings. This feature is not meant to duplicate a configuration and apply it to a different iLO system.

AMD platform support

Support for diffie-hellman-group-exchange-sha256.

Support for multiple destination AlertMail email addresses. Enter the addresses separated by a semicolon.

iLO RESTful API features:

Aux Power Reset



Jitter Control features to get and set Jitter Control Mode and Frequency  
New iLO RESTful API properties to bridge the gap between RIBCL and iLO RESTful API features:  
High Efficiency Mode  
Encryption-related properties and Cache Module Serial Number  
Login Security Banner  
Current Power on Time (provides the time since the system was last powered on).  
Persistent Mouse/Keyboard Enabled  
New iLO RESTful API events for NVDIMM Init Error and Runtime Firmware Authentication Error.

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## Online ROM Flash Component for Windows x64 - iLO 5

Version: 1.20 (Recommended)

### **Important Note!**

Users should update to this firmware version if their system is affected by one of the documented fixes or if there is a desire to utilize any of the enhanced functionality provided by this version.

IPv6 network communications - Dedicated network connection only

Supported Networking Features

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

Networking Features not supported by IPv6 in this release

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

## **Fixes**

No traps from the System Management Assistant are received when SNMP is disabled in the iLO web interface.

The power profile cannot be changed through the iLO web interface.

Network transmission graph data is not populated in Active Health System logs.

The NVDIMM firmware version is not displayed on the iLO web interface Installed Firmware page.

The iLO web interface intermittently displays incorrect memory status after a system reset.

The iLO RESTful API does not provide a method to get current cipher information.

The Server Power page stalls when loading the server power information.

Nothing happens when you click the Import button on the HPE SSO page.

Secure boot cannot be configured through the iLO RESTful API, even if the pending configuration is in UEFI mode.

The maximum available power is displayed incorrectly.

If the IML contains a maintenance note, the first attempt to clear the log fails.

Certificate-based authentication returns a session URL with inconsistent case.

Onetimeboot and Continuousboot do not take effect in iLOrest.

Virtual Media status is not displayed in the Java IRC.

The local client keyboard might get disabled when the Java IRC is in use.

An iLO Federation authentication error might occur when group names with unsupported characters are used in URLs without correct encoding.

An issue occurs when copying or restoring certificate mapping entries using fingerprints.

An iLO web interface error occurs after an installed certificate was deleted by using the iLO RESTful API.

An Internal Error occurs when HPONCFG for Linux is used with a server that uses the SuiteB security state.

SNMPv3 user details cannot be modified through RIBCL.

A false positive “Insecure Cache Management Policy” issue is reported by some security scanners.

## **Enhancements**

iLO backup and restore—This feature allows you to restore the iLO configuration on a system with the same hardware configuration as the system that was backed up. For example, you could use this feature if the system board is replaced, an accidental or incorrect configuration change occurred, or iLO was set to the factory default settings. This feature is not meant to duplicate a configuration and apply it to a different iLO system.

AMD platform support

Support for diffie-hellman-group-exchange-sha256.

Support for multiple destination AlertMail email addresses. Enter the addresses separated by a semicolon.

iLO RESTful API features:

Aux Power Reset

Jitter Control features to get and set Jitter Control Mode and Frequency

New iLO RESTful API properties to bridge the gap between RIBCL and iLO RESTful API features:

High Efficiency Mode

Encryption-related properties and Cache Module Serial Number

Login Security Banner

Current Power on Time (provides the time since the system was last powered on).

Persistent Mouse/Keyboard Enabled

New iLO RESTful API events for NVDIMM Init Error and Runtime Firmware Authentication Error.

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## **HPE Broadcom NX1 Online Firmware Upgrade Utility for Linux x86\_64**

Version: 2.20.7 (Optional)

### **Important Note!**

HPE recommends HPE Broadcom tg3 Ethernet Drivers, versions 3.137u-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 corrects an issue where an adapter's configuration menu doesn't prompt for reboot after changes are made that require a reboot.

This firmware now correctly displays a progress bar information when updating the firmware via the 'Firmware Update' feature (under 'System Utilities->Embedded Applications').

### **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

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

Version: 5.1.2.2 (Optional)

### **Important Note!**

HPE recommends HPE Broadcom 1Gb Driver for Windows Server x64 Editions, version 20.8.0.0 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 corrects an issue where an adapter's configuration menu doesn't prompt for reboot after changes are made that require a reboot.

This firmware now correctly displays a progress bar information when updating the firmware via the 'Firmware Update' feature (under 'System Utilities->Embedded Applications').

### **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

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## **HPE Intel Online Firmware Upgrade Utility for Linux x86\_64**

Version: 1.14.13 (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 5.3.5.12 or later

HPE Intel ixgbe Drivers for Linux , versions 5.3.3 or later

HPE Intel i40e Drivers for Linux, versions 2.4.3 or later

### **Prerequisites**

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

### **Fixes**

This product corrects a Wake-on-LAN (WoL) issue seen with the HP Ethernet 1Gb 2-port 361T Adapter.

This product corrects an issue where there is no VLAN function under Legacy mode on the HP Ethernet 1Gb 2-port 361T 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

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## **HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions**

Version: 5.1.2.2 (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 3.14.78.0 or later

HPE Intel ixn Driver for Windows Server 2016, version 4.1.77.0 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 3.14.78.0 or later

HPE Intel ixt Driver for Windows Server 2016, version 4.1.76.0 or later

HPE Intel i40ea Driver for Windows, versions 1.8.83.0 or later

HPE Intel i40eb Driver for Windows, versions 1.8.83.0 or later

### **Prerequisites**

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

### **Fixes**

This product corrects a Wake-on-LAN (WoL) issue seen with the HP Ethernet 1Gb 2-port 361T Adapter.

This product corrects an issue where there is no VLAN function under Legacy mode on the HP Ethernet 1Gb 2-port 361T 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

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## **HPE QLogic NX2 Online Firmware Upgrade Utility for Linux x86\_64**

Version: 2.21.15 (Optional)

### **Important Note!**

HPE recommends HPE QLogic NX2 10/20GbE Multifunction Drivers for Linux, versions 7.14.38-1 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 the Maximum Transmission Unit (MTU) setting value reverts to the default value after a system reboot.

This product corrects an issue where an adapter's configuration menu doesn't correctly prompt for reboot after changes are made that require a reboot.

This product corrects a high latency issue seen during high ping activity.

This product corrects an issue where OneView displays the error message "Server profile settings conflict with the server hardware configuration" when applying the server profile to a server running VMware ESXi 6.x.

This product corrects an issue where the iSCSI settings configured in the OneView Profile are not correctly applied to the adapter.

This product corrects an issue where an error message is seen when entering the 'MBA Configuration Menu' under the adapter's settings (under the 'System Utilities->System Configuration' menu) and attempting to restore the defaults.

This product corrects an issue where the iSCSI multipath does not work correctly in 'Legacy BIOS Mode'.

This product corrects an issue where the virtual World Wide Port Name(WWPN)/World Wide Node Name(WWNN) are not programmed properly when applying the OneView Server Profile.

This product addresses an issue where the user sees the error message "Unable to find a FibreChannel boot source for server" in OneView when applying the Server Profile with Fibre Channel network paths configured.

## **Enhancements**

The default 'Boot Retry Count' has been increased from 'No Retry' to '6.'

Configuration settings are now localized.

## **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

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

Version: 5.1.2.2 (Optional)

## **Important Note!**

HPE recommends HPE QLogic NX2 10/20GbE Multifunction Drivers for Windows Server x64 Editions, version 7.13.118.0 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 the Maximum Transmission Unit (MTU) setting value reverts to the default value after a system reboot.

This product corrects an issue where an adapter's configuration menu doesn't correctly prompt for reboot after changes are made that require a reboot.

This product corrects a high latency issue seen during high ping activity.

This product corrects an issue where OneView displays the error message "Server profile settings conflict with the server hardware configuration" when applying the server profile to a server running VMware ESXi 6.x.

This product corrects an issue where the iSCSI settings configured in the OneView Profile are not correctly applied to the adapter. This product corrects an issue where an error message is seen when entering the 'MBA Configuration Menu' under the adapter's settings (under the 'System Utilities->System Configuration' menu) and attempting to restore the defaults.

This product corrects an issue where the iSCSI multipath does not work correctly in 'Legacy BIOS Mode'.

This product corrects an issue where the virtual World Wide Port Name(WWPN)/World Wide Node Name(WWNN) are not programmed properly when applying the OneView Server Profile.

## **Enhancements**

The default 'Boot Retry Count' has been increased from 'No Retry' to '6.'  
Configuration settings are now localized.

## **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

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## **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

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## **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

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

Version: HPD3 (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**

Problems Fixed:

This firmware implements the Firmware Security Log Page.

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

Version: HPD6 (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**

Problems Fixed:

This firmware improves HDD reliability when HDDs are exposed to long periods of host inactivity that exceed 1 second. HDDs may become unresponsive when using HDD firmware prior to version HPD6.

This firmware also contains a change which prevents an incorrect reassign status of a repaired sector from being logged.

This firmware contains a change to prevent an incorrect sense code from being posted when a Stop command is received during power-on sequence.

## **Enhancements**

Enhancements/New Features for:

Adds support for HPE ProLiant Gen10 servers.



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

Version: HPD3 (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**

Problems Fixed:

Under rarely occurring conditions where a host error occurred during a write with 4K unaligned sectors, the write operation might result in stale data. Firmware HPD3 prevents the possibility of stale data occurring under these conditions.

### **Enhancements**

Enhancements/New Features:

Adds support for HPE ProLiant Gen10 servers.

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

Version: HPD3 (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**

Problems Fixed:

This firmware implements the Firmware Security Log Page.

This firmware contains a change to prevent occasional command completion times in the 4-5 second window when command is received just as the drive is transitioning from active to Idle A.

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

Version: HPD2 (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**

Problems Fixed:

This firmware contains a change to prevent occasional command completion times in the 4-5 second window when command is received just as the drive is transitioning from active to Idle A.

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

Version: HPD2 (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**

Problems Fixed:

This firmware contains a change to prevent occasional command completion times in the 4-5 second window when command is received just as the drive is transitioning from active to Idle A.

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

Version: HPD4 (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**

Problems Fixed:

Under rarely occurring conditions where a host error occurred during a write with 4K unaligned sectors,

the write operation might result in stale data. Firmware HPD4 prevents the possibility of stale data occurring under these conditions.

After greater than 2 seconds of idle time following a forced power transition or no activity, random seeks might not occur as required. Firmware HPD4 initiates random seeks following the device being placed into a forced power condition. Random seeks are necessary to maintain the reliability and life of the device.

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

Version: HPD7 (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**

Problems Fixed:

This firmware improves HDD reliability when HDDs are exposed to long periods of host inactivity that exceed 1 second. HDDs may become unresponsive when using HDD firmware prior to version HPD7.

This firmware also contains a change which prevents an incorrect reassign status of a repaired sector from being logged.

This firmware prevents asserts on a sequential write which can result in devices being lost from the configuration. It also preserves persistent reservation through downloads which prevents loss of performance.

### **Enhancements**

Enhancements/New Features for:

Adds support for HPE ProLiant Gen10 servers.

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

Version: HPD2 (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**

Problems Fixed:

This firmware prevents asserts on a sequential write which can result in devices being lost from the configuration. It also preserves persistent reservation through downloads which prevents loss of performance.

## **Enhancements**

Enhancements/New Features:

Added support for Microsoft Windows Server 2016.

Adds support for HPE ProLiant Gen10 servers.

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

Version: HPD3 (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**

Problems Fixed:

This firmware implements the Firmware Security Log Page.

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

Version: HPD7 (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**

Problems Fixed:

This firmware improves HDD reliability when HDDs are exposed to long periods of host inactivity that exceed 1 second. HDDs may become unresponsive when using HDD firmware prior to version HPD7.

This firmware also contains a change which prevents an incorrect reassign status of a repaired sector from being logged.

This firmware prevents asserts on a sequential write which can result in devices being lost from the configuration. It also preserves persistent reservation through downloads which prevents loss of performance.

### **Enhancements**

Enhancements/New Features:

Adds support for HPE ProLiant Gen10 servers.

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## **Supplemental Update / Online ROM Flash Component for Linux (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**

Problems Fixed:

This firmware improves HDD reliability when HDDs are exposed to long periods of host inactivity that exceed 1 second. HDDs may become unresponsive when using HDD firmware prior to version HPD6.

This firmware also contains a change which prevents an incorrect reassign status of a repaired sector from being logged.

This firmware contains a change to prevent an incorrect sense code from being posted when a Stop command is received during power-on sequence.

### **Enhancements**

Enhancements/New Features:

Adds support for HPE ProLiant Gen10 servers.

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

Version: HPD3 (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**

Problems Fixed:

Under rarely occurring conditions where a host error occurred during a write with 4K unaligned sectors, the write operation might result in stale data. Firmware HPD3 prevents the possibility of stale data occurring under these conditions.

### **Enhancements**

Enhancements/New Features:

Adds support for HPE ProLiant Gen10 servers.

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

Version: HPD3 (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**

Problems Fixed:

This firmware implements the Firmware Security Log Page.

This firmware contains a change to prevent occasional command completion times in the 4-5 second window when command is received just as the drive is transitioning from active to Idle A.

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

Version: HPD2 (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**

Problems Fixed:

This firmware contains a change to prevent occasional command completion times in the 4-5 second window when command is received just as the drive is transitioning from active to Idle A.

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

Version: HPD2 (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**

Problems Fixed:

This firmware contains a change to prevent occasional command completion times in the 4-5 second window when command is received just as the drive is transitioning from active to Idle A.

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

Version: HPD4 (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 HPD4 do not need to update to HPD4 (B).

## **Fixes**

Problems Fixed:

Under rarely occurring conditions where a host error occurred during a write with 4K unaligned sectors, the write operation might result in stale data. Firmware HPD4 prevents the possibility of stale data occurring under these conditions.

After greater than 2 seconds of idle time following a forced power transition or no activity, random seeks might not occur as required. Firmware HPD4 initiates random seeks following the device being placed into a forced power condition. Random seeks are necessary to maintain the reliability and life of the device.

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

Version: HPD2 (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**

Problems Fixed:

This firmware prevents asserts on a sequential write which can result in devices being lost from the configuration. It also preserves persistent reservation through downloads which prevents loss of performance.

### **Enhancements**

Enhancements/New Features:

Adds support for HPE ProLiant Gen10 servers.

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## Online ROM Flash Component for Windows (x64) - MB001000GWFWK and MB002000GFWFL Drives

Version: HPG4 (B) (Critical)

### **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 (B).

### **Fixes**

Problems Fixed:

This firmware corrects a potential issue where the data in the reserved tracks is not properly updated, eliminating the risk of a drive not finishing the boot process on power up.

**Other maintenance fixes and updates are also included with the new firmware.**

### **Enhancements**

Enhancements/New Features:

Firmware version HPG4 is designed to prevent any previous firmware revisions from being loaded onto the drive, after the drive is upgraded to HPG4 firmware.



Enhancements/New Features for HPG4 (B):  
Adds support for HPE ProLiant Gen10 servers.

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

Version: HPG4 (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 HPG4 do not need to update to HPG4 (B).

### **Fixes**

Problems Fixed:

Firmware version HPG4 prevents the occurrence of a rare issue which could lead to slow drive performance. This issue has the potential to impact all drives in configurations where the drives might be allowed to be idle for greater than 1 second.

### **Enhancements**

Enhancements/New Features for HPG4 (B):  
Adds support for HPE ProLiant Gen10 servers.

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

Version: HPG4 (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**

Problems Fixed:

Under rarely occurring conditions where a host error occurred during a write with 4K unaligned sectors, the write operation might result in stale data. Firmware HPx4 prevents the possibility of stale data occurring under these conditions.

## **Enhancements**

Enhancements/New Features:

Adds support for HPE ProLiant Gen10 servers.

---

## **Online ROM Flash Component for Windows (x64) - MM1000GFJTE Drives**

Version: HPG1 (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 HPG1 do not need to update to HPG1 (B).

### **Fixes**

Problems Fixed:

This firmware improves HDD reliability when HDDs are exposed to long periods of host inactivity that exceed 1 second. HDDs may become unresponsive when using HDD firmware prior to version HPG1.

This firmware also contains a change which prevents an incorrect reassign status of a repaired sector from being logged.

## **Enhancements**

Enhancements/New Features:

Added support for Microsoft Windows Server 2016.

Enhancements/New Features for HPG1 (B):

Adds support for HPE ProLiant Gen10 servers.

---

## **Supplemental Update / Online ROM Flash Component for Linux (x64) - MB001000GFWFK and MB002000GFWL Drives**

Version: HPG4 (B) (Critical)

### **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 (B).

## **Fixes**

Problems Fixed:

This firmware corrects a potential issue where the data in the reserved tracks is not properly updated, eliminating the risk of a drive not finishing the boot process on power up.

**Other maintenance fixes and updates are also included with the new firmware.**

## **Enhancements**

Enhancements/New Features:

Firmware version HPG4 is designed to prevent any previous firmware revisions from being loaded onto the drive, after the drive is upgraded to HPG4 firmware.

Enhancements/New Features for HPG4 (B):

Adds support for HPE ProLiant Gen10 servers.

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

Version: HPG4 (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 HPG4 do not need to update to HPG4 (B).

## **Fixes**

Problems Fixed:

Firmware version HPG4 prevents the occurrence of a rare issue which could lead to slow drive performance. This issue has the potential to impact all drives in configurations where the drives might be allowed to be idle for greater than 1 second.

## **Enhancements**

Enhancements/New Features for HPG4 (B):

Adds support for HPE ProLiant Gen10 servers.

---

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

Version: HPG4 (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 HPG4 do not need to update to HPG4 (B).

### **Fixes**

Problems Fixed:

Under rarely occurring conditions where a host error occurred during a write with 4K unaligned sectors, the write operation might result in stale data. Firmware HPx4 prevents the possibility of stale data occurring under these conditions.

### **Enhancements**

Enhancements/New Features:

Adds support for HPE ProLiant Gen10 servers.

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## **Supplemental Update / Online ROM Flash Component for Linux (x64) - MM1000GFJTE Drives**

Version: HPG1 (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 HPG1 do not need to update to HPG1 (B).

### **Fixes**

Problems Fixed:

This firmware improves HDD reliability when HDDs are exposed to long periods of host inactivity that exceed 1 second. HDDs may become unresponsive when using HDD firmware prior to version HPG1.

This firmware also contains a change which prevents an incorrect reassign status of a repaired sector from being logged.

### **Enhancements**

Enhancements/New Features for HPG1 (B):

Adds support for HPE ProLiant Gen10 servers.

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## **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 (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.

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## **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, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10**

Version: 1.34 (Recommended)

## **Fixes**

Controller might stop responding while handling a drive error. (POST Lockup 0x27006)

Controller might stop responding after a drive hot-removal or hot-insertion. (POST Lockup codes 0x1EA or 0x15010)

Controller might stop responding during a volume expansion or rekey. (POST Lockup code 0x1E30)

Controller might stop responding while performing heavy writes to a RAID 0 or RAID 1 logical drive that has a flash backed write cache enabled. (POST Lockup 0x1BC0)

Various scenarios where drive LEDs might not be displayed correctly.

Drives might not be detected after a cold boot.

A hot-inserted drive might be immediately reported as failed.

A failed or charging HPE Smart Storage Battery might be reported as "missing" in SSA and iLO.

The RESTful management interface might be unable to detect physical drives or make configuration changes to the controller.

Option to enable "No Battery Write Cache" in SSA is not available if an HPE Smart Storage Battery is not installed.

Customer specified read/write controller cache ratio is not honored if "No Battery Write Cache" is enabled.

Controller cache might be displayed as temporarily disabled following an unexpected shutdown and subsequent reboot.

Unable to modify the controller cache read/write ratio following an unexpected shutdown and subsequent reboot.

The controller cache might become disabled when running VMware ESXi 6.0 if the controller and guest OS are configured to use PCI pass-through.

If multiple logical volumes are present on the same array, and one of the volumes is rebuilding, the others might be incorrectly marked as failed.

A drive at index 0 might incorrectly display as rebuilding if a logical volume on the controller is currently rebuilding.

System might hang during power-up or appear unresponsive during runtime if a logical volume composed of SSD's is created or rebuilding.

Negotiated link rate for drives might not be correct.

Storage enclosure information for direct attached drives might not be returned correctly in Windows.  
The HPE SmartCache feature was not available by default on the P816i-a SR Gen10 controller.

### **Enhancements**

Support for ATA Sanitize Freeze/Antifreeze Lock.  
Ability to select boot controller in Legacy BIOS mode with multiple controllers installed.  
Updated Hard Drive Carrier LED behavior for the HPE ProLiant XL450 Gen10 Server.  
Ability to set rebuild priorities via the RESTful management interface.  
Supported settings – High, MediumHigh, Medium, Low

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### **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, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10**

Version: 1.34 (Recommended)

### **Fixes**

Controller might stop responding while handling a drive error. (POST Lockup 0x27006)  
Controller might stop responding after a drive hot-removal or hot-insertion. (POST Lockup codes 0x1EA or 0x15010)  
Controller might stop responding during a volume expansion or rekey. (POST Lockup code 0x1E30)  
Controller might stop responding while performing heavy writes to a RAID 0 or RAID 1 logical drive that has a flash backed write cache enabled. (POST Lockup 0x1BC0)  
Various scenarios where drive LEDs might not be displayed correctly.  
Drives might not be detected after a cold boot.  
A hot-inserted drive might be immediately reported as failed.  
A failed or charging HPE Smart Storage Battery might be reported as “missing” in SSA and iLO.  
The RESTful management interface might be unable to detect physical drives or make configuration changes to the controller.  
Option to enable “No Battery Write Cache” in SSA is not available if an HPE Smart Storage Battery is not installed.  
Customer specified read/write controller cache ratio is not honored if “No Battery Write Cache” is enabled.  
Controller cache might be displayed as temporarily disabled following an unexpected shutdown and subsequent reboot.  
Unable to modify the controller cache read/write ratio following an unexpected shutdown and subsequent reboot.  
The controller cache might become disabled when running VMware ESXi 6.0 if the controller and guest OS are configured to use PCI pass-through.  
If multiple logical volumes are present on the same array, and one of the volumes is rebuilding, the others might be incorrectly marked as failed.  
A drive at index 0 might incorrectly display as rebuilding if a logical volume on the controller is currently rebuilding.  
System might hang during power-up or appear unresponsive during runtime if a logical volume composed

of SSD's is created or rebuilding.

Negotiated link rate for drives might not be correct.

Storage enclosure information for direct attached drives might not be returned correctly in Windows.

The HPE SmartCache feature was not available by default on the P816i-a SR Gen10 controller.

### **Enhancements**

Support for ATA Sanitize Freeze/Antifreeze Lock.

Ability to select boot controller in Legacy BIOS mode with multiple controllers installed.

Updated Hard Drive Carrier LED behavior for the HPE ProLiant XL450 Gen10 Server.

Ability to set rebuild priorities via the RESTful management interface.

Supported settings – High, MediumHigh, Medium, Low

---

## **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.

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

Version: 2018.02.01 (Recommended)

### **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:

16 Gb Standup, 16 Gb Mezzanine & 32G Standup:

UEFI:

V2.40 Unified Extensible Firmware Interface (UEFI) driver support for HP Servers

BIOS/Firmware:

Enable Buffer to Buffer credit (BB\_credit) recovery using the Fibre Channel (FC) primitives

Platform Level Data Model (PLDM)/Management Component Transport Protocol (MCTP) Standard

Firmware Download

Support for Bi-Directional D-port & Clearlink

### **Security Enhancements**

Updated 16/32 Gb HBA/Mezz universal boot

Updated 16Gb HBA/Mezz universal boot

Contains:

16/32 Gb HBA/Mezz universal boot 11.4.225.21

16 Gb HBA/Mezz universal boot 11.4.225.21

### **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

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

Version: 2018.02.01 (Recommended)

### **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:

16 Gb Standup, 16 Gb Mezzanine & 32G Standup:

UEFI:

V2.40 Unified Extensible Firmware Interface (UEFI) driver support for HP Servers

BIOS/Firmware:

Enable Buffer to Buffer credit (BB\_credit) recovery using the Fibre Channel (FC) primitives

Platform Level Data Model (PLDM)/Management Component Transport Protocol (MCTP) Standard

Firmware Download

Support for Bi-Directional D-port & Clearlink

### **Security Enhancements**

Updated 16/32 Gb HBA/Mezz universal boot

Updated 16Gb HBA/Mezz universal boot

Contains:

16/32 Gb HBA/Mezz universal boot 11.4.225.21

16 Gb HBA/Mezz universal boot 11.4.225.21

### **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



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## Online Flash Component for Linux - 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.

### **Enhancements**

Added support for the following Gen10 server:

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

Version: 1.20 (B) (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.

### **Enhancements**

Added support for the following Gen10 server:

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

Version: 5.2.0-0 (Recommended)

### **Prerequisites**

This utility requires the following minimum firmware revisions:

Integrated Lights-Out 5 firmware v1.10 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.

### **Fixes**

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

### **Enhancements**

Introduced support for iLO 5 v1.20.

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## **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 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.

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

Version: 1.0.0.64 (B) (Recommended)

### **Fixes**

No functionality changes.

Added SHA256 signature to the HPEPQIESRV.exe file

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## **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:

Optrom version display

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

Version: 11.4.207.0 (Recommended)

### **Enhancements**

Updated to version 11.4.207.0

### **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

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

Version: 11.4.207.0 (Recommended)

### **Enhancements**

Updated to version 11.4.207.0

### **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

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## **HPE Emulex Smart SAN Enablement Kit for Linux**

Version: 1.0.0.0-4 (b) (Optional)

### **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

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

Version: 1.0.0.1 (f) (Optional)

### **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

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## **HPE Fibre Channel Enablement Kit for Linux - Qlogic**

Version: 6.0.0.0-4 (d) (Optional)

### **Enhancements**

Updated the kit to version 6.0.0.0-4

### **Supported Devices and Features**

This version of the enablement kit supports the following devices:

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 QLogic Smart SAN enablement kit for Linux**

Version: 3.3-3 (b) (Optional)

### **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

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

Version: 1.0.0.1 (e) (Optional)

### **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

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

Version: 1.2.0 (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:

Added support for the following new hardware options:

amsd no longer stops when PCI and NIC Data Structures dynamically appear and disappear

Application Time Stamps are correctly logged in AHS

POLLERR and POLLHUP handling support to smad

Slot determination for add-in PCIe cards reports correctly for devices which sit behind an on-card PCIe bridge device

Save status on a change and a trap is now sent if the status is not FC\_HBA\_STATUS\_OTHER in cpqFca

Fixed endless loop when reading a bad PCI value

New fan speed thermal values added for iLO5

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

Version: 1.2.0 (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:

Added support for the following new hardware options:

amsd no longer stops when PCI and NIC Data Structures dynamically appear and disappear

Application Time Stamps are correctly logged in AHS

POLLERR and POLLHUP handling support to smad

Slot determination for add-in PCIe cards which sit behind an on-card PCIe bridge device

Save status on a change and a trap is now sent if the status is not FC\_HBA\_STATUS\_OTHER in cpqFca

AHS logging issues with RHEL 7.4

Fixed endless loop when reading a bad PCI value

New fan speed thermal values added for iLO5

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## **Agentless Management Service for Windows X64**

Version: 1.20.0.0 (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".

### **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**

None

### **Enhancements**

Added support for the following device:

- HPE Smart Array P824i-p MR Adapter (cpqSasHbaModel: sasP824ip(14))

Added support for the following MIB OIDs:

- cpqIdeAtaDiskMaximumOperatingTemp
- cpqIdeAtaDiskDestructiveOperatingTemp
- cpqSasLogDrvTable

Added support for a new Active Health System (AHS) record: "OS Logical Disk Usage"

Added UTF-8 support for Japanese characters to show correctly on iLO GUI

Enhanced AMS Control Panel Applet Help content

Added button options in AMS Control Panel Applet to start/stop AMS service, or enable/disable SMA service

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

Version: 3.25-4.0 (Optional)

### **Important Note!**

HPE SSACLI will allow you to configure and manage your storage as before, but now with additional features, abilities, and supported devices. Existing ACUCLI scripts should only need to make minimal changes such as calling the appropriate binary or executable in order to maintain compatibility.

### **Enhancements**

Added support for Freeze/Anti-freeze of the Sanitize command.

---

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

Version: 3.25-4.0 (Optional)

### **Important Note!**

HPE SSA replaces the existing HP Array Configuration Utility, or ACU, with an updated design and will deliver new features and functionality for various Smart Storage initiatives as they come online. HPE Smart Array Advanced Pack 1.0 and 2.0 features are now part of the baseline features of HPE SSA, with the appropriate firmware.

HPE SSA will allow you to configure and manage your storage as before, but now with additional features, abilities, and supported devices. Existing ACU scripts should only need to make minimal changes such as calling the appropriate binary or executable in order to maintain compatibility.

### **Prerequisites**

The HPE Smart Storage Administrator for Linux requires the HPE System Management Homepage software to be installed on the server. If the HPE System Management Homepage software is not already installed on your server, please download it from HPE.com and install it before installing the HPE Smart Storage Administrator for Linux.

IMPORTANT UPDATE: HPE SSA (GUI) for Linux can now be run without requiring the HPE System Management Homepage. HPE SSA now supports a Local Application Mode for Linux. The HPE System Management Homepage is still supported, but no longer required to run the HPE SSA GUI.

To invoke, enter the following at the command prompt:

ssa -local

The command will start HP SSA in a new Firefox browser window. When the browser window is closed, HP SSA will automatically stop. This is only valid for the loopback interface, and not visible to external network connections.

### **Enhancements**

Added support for Freeze/Anti-freeze of the Sanitize command.

---

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

Version: 3.25-4.0 (Optional)

### **Important Note!**

This stand alone version of the HPE Smart Storage Administrator's Diagnostic feature is available only in CLI form. For the GUI version of Diagnostic reports, please use HPE Smart Storage Administrator (HPE SSA).

### **Enhancements**

Added support for Freeze/Anti-freeze of the Sanitize command.

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### **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.

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

Version: 3.25-4.0 (Optional)

### **Enhancements**

Added support for Freeze/Anti-freeze of the Sanitize command.

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

Version: 3.25.4.0 (Optional)

### **Enhancements**

Added support for Freeze/Anti-freeze of the Sanitize command.

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### **Smart Storage Administrator (SSA) for Linux 64-bit**

Version: 3.25-4.0 (Optional)

### **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 support for Freeze/Anti-freeze of the Sanitize command.

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### **Smart Storage Administrator (SSA) for Windows 64-bit**

Version: 3.25.4.0 (Optional)

### **Enhancements**

Added support for Freeze/Anti-freeze of the Sanitize command.

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

Version: 3.25-4.0 (Optional)

### **Enhancements**

Added support for Freeze/Anti-freeze of the Sanitize command.

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

Version: 3.25.4.0 (Optional)

### **Important Note!**

This stand alone version of the Smart Storage Administrator's Diagnostic feature is available only in CLI form. For the GUI version of Diagnostic reports, please use Smart Storage Administrator (SSA).

### **Enhancements**

Added support for Freeze/Anti-freeze of the Sanitize command.