

**HA8000V シリーズ**

**Service Pack for HA8000V (SPH)**

**Version 6.00 14**

**Readme**

2020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 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。

Intel、インテル、Xeon は、アメリカ合衆国およびその他の国における Intel Corporation の商標です。

Linux は、Linus Torvalds 氏の日本およびその他の国における登録商標または商標です。

Red Hat は、米国およびその他の国で Red Hat, Inc. の登録商標もしくは商標です。

iLO は、Hewlett Packard Enterprise Development LP の商標です。

VMware は、米国およびその他の地域における VMware, Inc. の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。
- (7) マニュアル『HA8000V シリーズ 重要事項および読替ガイド』には、各種マニュアルをご覧いただく際、事前にご理解いただくべき内容を記載しています。こちらも含めてご参照ください。マニュアルは『ドキュメントポータル』の「マニュアル > サーバ」-「HA8000V シリーズ」より参照いただけます。

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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
2020年1月	初版
2020年1月	サポートOS追加
2020年4月	5.3 (2), 5.8.6 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/DL20 Gen10
- HA8000V/DL360 Gen10
- HA8000V/DL380 Gen10
- HA8000V/DL580 Gen10
- HA8000V/ML30 Gen10
- HA8000V/ML350 Gen10

### 3.2 適用 OS

- Microsoft® Windows Server® 2019
- Microsoft® Windows Server® 2016
- Microsoft® Windows Server® 2012 R2
- Red Hat® Enterprise Linux® Server 7.7
- Red Hat® Enterprise Linux® Server 7.6
- VMware vSphere® ESXi™ 6.7
- VMware vSphere® ESXi™ 6.5

## 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

(1) 追加サポート機種及びOS

- 追加サポート機種

なし

- 追加サポートOS

なし

(2) 追加サポートデバイス

なし

### 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。

各アップデートプログラムの適用についてはお客様責任にて実施していただきますが、システム装置を安定してご使用いただくためにも、ホームページの[ サポート ]-[ 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 OS の新規・再セットアップの場合の注意事項

OS の新規・再セットアップの際、初回の SPH 適用では、ファームウェアコンポーネントを除外し、ドライバ/ユーティリティコンポーネントのインストールを先に実施してください。これにより、デバイスの検出及びファームウェアの書き込みに適切なドライバ/ユーティリティがインストールされます。ドライバ/ユーティリティのインストール後は、OS を再起動し、再度 SUM を実行してファームウェアの更新を行ってください。

SUM でファームウェアコンポーネントを除外し、ドライバ/ユーティリティコンポーネントのみのインストールを指定するには、次の手順により行います。

GUI の場合：

SUM を起動し、「展開サマリー(Deployment summary)」画面右上の[ アクション(Actions) ]-[ アドバンスドオプション(Advanced Options) ]から「アドバンスドオプション(Advanced Options)」画面を開き、「インストールオプション(Installation Options)」の項目で「ソフトウェアのアップグレード(Upgrade Software)」を選択し、「OK」ボタンを押してください。

CLI の場合：

“setattributes”で firmware=false を設定してください。

例) # ./smartupdate setattributes --nodes localhost firmware=false

### 5.3 SUM によるアップデート時の注意事項

(1) ファームウェア/ドライバの依存関係について

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

GUI の場合：

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

CLI の場合：

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

(2) 適用バージョンについて

SUM を使用して更新作業を行う場合、適用対象として自動選択されるものは、新規にインストールされるもの、および SPH 収録バージョンが適用済みバージョンより新しいものとなります。

ネットワークアダプタ及びファイバーチャネルホストバスアダプタは、SPH 収録のドライバ/ファームウェアの組み合わせでご使用いただくことを推奨しています。適用済みバージョンが SPH 収録済みバージョンより新しい場合、該当コンポーネントが適用対象として自動選択されません。その場合、以下の手順で対象コンポーネントを手動で選択し、適用してください。

#### 【手動適用方法】

SUM を起動し、「展開サマリー(Deployment summary)」画面で、「コンポーネントの選択状態」が「選択」表示(※)となっているコンポーネントを確認し、ネットワークアダプタファームウェアまたは、ファイバーチャネルホストバスアダプタのファームウェアの場合は、当該コンポーネントを選択(※)して、“展開(Deploy)”ボタンを押してください。

※：コンポーネントが選択されると、「コンポーネントの選択状態」が、「選択済み」もしくは「強制」と表示されます。

#### 【注意】

デバイスによっては、適用バージョンに関して、個別にアドバイザリが発行されている場合があります。本ファームウェアの適用に当たっては、アドバイザリを参照してください。

## 5.4 SUMでのランゲージパックバージョン表示と適用について

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。

また、この結果、SUM でランゲージパックが適用対象として正しく選択されない可能性があります。

目的のバージョンのランゲージパックが適用されていないのに、SUM 実行後の「展開サマリー」画面で、ランゲージパックが適用対象として選択されない場合があります。この場合は、ランゲージパックを手動で選択し展開を実施してください。

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

## 5.5 SUMでのiLOを使用したランゲージパック適用に関する制限事項

SUMで対象ノードとして、システム装置のiLOを追加(ノードのIPアドレスにiLOのIPアドレスを指定、ノードタイプにiLOを選択)した場合、ランゲージパックが対象に含まれず更新されません。ランゲージパックは別途下記方法にて更新ください。

- SUMをローカルホスト上で実行(※)
- SUMで対象ノードとしてシステム装置のOSのIPアドレスを指定して実行(※)
- iLO WEB インターフェースを使用して実行

※：対象ノードがVmwareの場合は使用不可

### 【iLO WEB インタフェースからの更新手順】

- (1) 以下の手順で、事前にSPH package ファイルからランゲージパックファイルを取り出してください。  
Windows上で、SPHのpackagesディレクトリ下にあるSPH package 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。展開したディレクトリから、下表記載のランゲージパックファイルを取り出してください。

SPH package ファイル名	ランゲージパックファイル名
cp042242.exe	lang_ja_210.lpk

- (2) 装置のシャットダウンを行ってください。
- (3) iLO WEB インタフェースの「ファームウェア & OS ソフトウェア」タブを開いてください。
- (4) 「ファームウェアアップデート」をクリックし、「ローカルバイナリファイル」に先ほど取り出したランゲージパックファイルを指定し、「フラッシュ」を選択してください。
- (5) 2~3分後に完了のメッセージが表示されます。その後iLOが自動的に再起動します。

## 5.6 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。

#### 5.6.1 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。

No.	Description	Version	Filename
1	iLO 5 Automatic Server Recovery Driver for Windows Server 2012 R2	4.6.0.0	cp040015.exe
2	iLO 5 Automatic Server Recovery Driver for Windows Server 2016 and Server 2019	4.6.0.0	cp040016.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の scripts ディレクトリ下に下記の 3 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-AsrSettings.ps1

Set-AsrPreTimeoutNMI.ps1

Set-AsrTimeout.ps1

#### 5.6.2 ASR の確認方法

Windows の PowerShell より Get-AsrSettings.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-AsrSettings.ps1
```

```
Active : True
```

```
EnablePreTimeoutNMI : True
```

```
InstanceName : PCI\VEN_103C&DEV_3306&SUBSYS_00E41590&REV_07#4&154b2d14&0&00E4_0
```

```
TimeoutInMinutes : 0
```

```
PSComputerName :
```

### 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-AsrSettings.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
```

## 5.6.3 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
```

## 5.6.4 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
```

## 5.7 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

### 5.8.1 ファームウェアの適用について

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 のリモートオンライン 展開モード及びオフラ

イン 展開モードが利用できます。(VMware バージョンと利用可能な SPH 及び展開モードについては、[「Service Pack for HA8000V 補足資料\(Readme\)」](#)の『サポートモデル/OS 一覧』を参照ください。)

#### 【リモートオンライン 展開モードを使用する場合】

本モードでは、ファームウェアに加えてドライバのアップデートも可能です。

事前に「iSUT」のインストール及び ESXi ホストに対する設定が必要です。

「iSUT」が未インストールの場合、『5.8.2 iSUT のインストール』記載の手順に従ってインストールしてください。ESXi ホストに対しては、下記設定をアップデート作業前に実施して下さい。

- (1) ファームウェア/ドライバのアップデート作業を行う間は、ESXi ホストをメンテナンスモードに設定してください。
- (2) ESXi ホストをノードとして追加する場合、対象ノードとしてシステム装置の iLO を追加(ノードの IP アドレスに iLO の IP アドレスを指定、ノードタイプに iLO を選択)してください。
- (3) ファームウェア/ドライバのアップデートを有効化するためには VMware ESXi の再起動が必要です。アップデート後自動的に再起動させる場合は、再起動オプションを使用してください。

#### 【オフライン 展開モードを使用する場合】

SPH の iso イメージを格納した媒体をサーバに取り付け、媒体よりサーバをブートします。

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](#)」の[製品]-[OS、ISV 情報]にある『VMware』に掲載している注意事項をご参照の上、推奨ドライババージョンをご確認ください。

### 5.8.2 iSUT のインストール

VMware システムに対して、SPH/SUM を使用しファームウェア/ドライバのアップデートを行うには、ESXi ホストに iSUT をインストールする必要があります。iSUT インストール後は、リモート PC から SUM の『リモートオンライン』展開モードを使用して ESXi ホストのファームウェア/ドライバのアップデートを行うことができます。

ESXi ホストに iSUT をインストールする手順を次に示します。次のインストール手順では、データストア名を「datastore1」としています。使用環境にあわせて読み換えてください。

- (1) iSUT は SPH の packages ディレクトリに収録されています。下表に示す zip ファイルを展開し、iSUT のオフラインバンドル(sut-esxi\*.\*-bundle-\*.\*.\*-\*.zip)を取り出してください。

No.	VMware バージョン	SPH package ファイル名	オフラインバンドルファイル名
1	VMware vSphere® ESXi™ 6.5	cp038229.zip	sut-esxi6.5-offline-bundle-2.5.0.0-73.zip
2	VMware vSphere® ESXi™ 6.7	cp038233.zip	sut-esxi6.7-offline-bundle-2.5.0.0-75.zip

- (2) 取り出した iSUT のオフラインバンドルを VMware ESXi の「datastore1」直下へに転送してください。
- (3) VMware ESXi のコンソール画面で「F2」キーを押すと Login 画面が表示されるので、root ユーザーでログインします。

- (4) 「System Customization」画面が表示されるので、「Troubleshooting Options」を選択し、「Enter」キーを押下します。
- (5) 「Enable ESXi Shell」を選択し、「Enter」キーを押下して ESXi Shell を "Enable" に変更します。
- (6) 「Alt」 + 「F1」キーを押下し、VMware ESXi の Shell 画面を開き、root ユーザーでログインします。
- (7) 下記コマンドを実行しインストールします。

```
esxcli software vib install -d /vmfs/volumes/datastore1/<転送したバンドルファイル名>
```

- (8) VMware ESXi を再起動してください。
- (9) 再起動後、再度 VMware ESXi の Shell 画面を開き、root ユーザーでログインします。
- (10) 下記コマンドを実行し、iSUT を AutoDeployReboot モードに設定します。

```
sut -set mode=autodeployreboot
```

- (11) 作業終了後、OnDemand モードに変更します。iSUT を AutoDeployReboot モードに設定すると、iSUT が常駐し常時稼働し続けます。アップデート作業時以外は iSUT の稼働は不要ですので、常駐解除することを推奨します。iSUT を OnDemand モードに設定するには、下記コマンドを実行してください。

```
sut -set mode=ondemand
```

### 5.8.3 Management Bundle, Utilities Bundle 収録モジュールのバージョンについて

Management Bundle, Utilities Bundle には、複数の VIB モジュールが含まれています。

各コンポーネントに含まれる VIB のバージョンは次の通りです。

#### 【HPE Management Bundle Smart Component に含まれる VIB モジュール及びバージョン】

OS バージョン		VMware6.5	VMware6.7
ファイル名		cp040137.zip	cp040138.zip
VIB モ ジ ュ ー ル	amsd	Agentless Management Service	650.11.5.0-16.4240417
	fc-enablement	Fiber Channel Enablement Package	650.3.5.0.14-4240417
	smx-provider	WBEM Providers	650.03.16.00.4-4240417

#### 【HPE Utilities Bundle Smart Component に含まれる VIB モジュール及びバージョン】

OS バージョン		VMware6.5	VMware6.7
ファイル名		cp040886.zip	cp040887.zip
VIB モ ジ ュ ー ル	conrep	Conrep Utility	6.0.0.03-04.00.19.2494585
	testevent	Test Event Utility	6.5.0.02-01.00.9.4240417
	ssacli	Smart Storage Administrator CLI	4.15.6.0-6.5.0
	bootcfg	Boot Configuration Utility	6.0.0.02-06.00.16.2494585
	hponcfg	Lights-Out Configuration Utility	6.0.0.5.5-0.37.2494585

5.8.4 iLO セキュリティ設定を“高セキュリティ”にした装置で iSUT を使用する場合について  
iLO を“高セキュリティ”設定にした状態で iSUT を使うためには、以下のいずれかの設定が必要です。

- ① iSUT への認証情報設定
- ② iLO のセキュリティ条件の変更(iLO FW v1.4.0 以降のみ設定可能)

① iSUT への認証情報設定

iSUT に iLO の認証情報を設定します。設定方法は、VM ホスト上で以下を実行します。

```
sut -set ilouusername=<username>
Please provide the iLO password: <*****>
```

② iLO のセキュリティ条件の変更

iLO で“ホスト認証が必要”を「無効」に設定します。

iLO の Web 画面で[セキュリティ]-[アクセス設定]と画面遷移し、iLO の項目にある「ホスト認証が必要」の設定を「無効」に設定してください。

5.8.5 ドライバパラメータ再設定について

本 SPH を使用して VMware ドライバをアップデートした場合、ネイティブ ドライバが適用されます。ご使用の VMware 環境で VMKLinux ドライバをご使用の場合、ドライバが変更され、設定されているドライバパラメータが初期化されます。この問題を回避するために、ドライバアップデート後、ドライバパラメータを再設定してください。

【対象製品及びドライバ種】

下表に記載している対象製品並びにアップデート前のドライバ種をご使用の場合が対象となります。

対象製品		ドライバ種	
形名(*1)	製品名	アップデート前 (VMKLinux)	アップデート後 (ネイティブ)
TQ-N□□-817745-B21	Ethernet 10Gb 2 ポート 562FLR-T ネットワークアダプター	net-ixgbe	ixgben
TQ-N□□-817738-B21	Ethernet 10Gb 2 ポート 562T ネットワークアダプター		
TQ-N□□-665240-B21	Ethernet 1Gb 4 ポート 366FLR ネットワークアダプター	igb	igbn
TQ-N□□-652497-B21	Ethernet 1Gb 2 ポート 361T ネットワークアダプター		
TQ-N□□-811546-B21	Ethernet 1Gb 4 ポート 366T ネットワークアダプター		
TQ-N□□-727054-B21	Ethernet 10Gb 2 ポート 562FLR-SFP+	i40e	i40en

TQ-N□□-727055-B21	ネットワークアダプター Ethernet 10Gb 2ポート 562SFP+ ネットワークアダプター		
-------------------	--	--	--

(\*1)：□には製品構成などにより異なった英数字が入ります。

#### 【再設定手順】

##### (1) ドライバパラメータの確認及び記録

ドライバのアップデート前に、以下コマンドを実行し、ドライバパラメータ値を控えてください。

```
esxcfg-module -g <driver name>
```

<driver name>：アップデート前ドライバ種

以下実行例の「option = 'yyyy」の「yyyy」に設定値が表示されますので、値を控えてください。値が表示されない場合は、ドライバパラメータは未設定ですので、以降の作業は不要です。

(実行例) net-ixgbe の場合

```
# esxcfg-module -g net-ixgbe
net-ixgbe enabled = 1 options = 'yyyy'
```

また、下記の表示となる場合、net-ixgbe ドライバは未使用ですので、以降の作業は不要です。

(実行例) net-ixgbe の場合

```
# esxcfg-module -g net-ixgbe
Unknown module name net-ixgbe
```

##### (2) ドライバパラメータの再設定

ドライバのアップデート前に、以下コマンドを実行し、控えたドライバパラメータを再設定して下さい。

```
esxcfg-module -s "yyyy" <driver name>
```

yyyy：控えたドライバパラメータ

<driver name>：アップデート前ドライバ種

以下実行例の「option = 'yyyy」に控えたドライバパラメータを指定します。

(実行例) ixgben の場合

```
# esxcfg-module -s "yyyy" ixgben
```

##### (3) VMware ESXi の再起動

変更を有効にするため、VMware ESXi を再起動してください。

#### 5.8.6 QLogic 製ファイバーチャネルホストバスアダプターご使用にあたっての注意事項

VMware 環境において、QLogic 製ファイバーチャネルホストバスアダプターの特定のドライバパラメータを設定している状態で SPH に収録されているドライバにアップデートすると、アダプターが認識できなくなります。

特に、SAN ブートパスに使用しているアダプターで本現象が発生した場合、OS が起動できなくなり、回復にはバックアップからのリストアが必要となります。本 SPH を用いたドライバのアップデート前に、予め

パラメータ変更を行ってからドライバをアップデートしてください。

なお、デフォルトではパラメータは設定されておらず、本現象は発生しません。

パラメータ変更方法等、詳細は「日立アドバンストサーバ HA8000V シリーズ」の「製品に関する重要なお知らせ」掲載の「VMware 環境において QLogic 製ファイバーチャネルホストバスアダプターのドライバをアップデート後アダプターが認識できなくなる現象について(管理番号：CRI-2020-0005)」を参照してください。

## 5.9 SUM オフライン展開モードご使用時の注意事項

SPH の ISO イメージを、iLO 仮想メディアデバイスにマウントして SUM のオフライン展開モードご使用の場合、iLO の『ネットワークインターフェイス設定』が『共有ネットワークポート』構成となっていると、SUM の起動途中でエラーになることがあります。

iLO の『ネットワークインターフェイス設定』を『共有ネットワークポート』構成でご使用の場合、ISO イメージを書き込んだ媒体をご用意いただき、内蔵もしくは USB 接続の DVD ドライブを使用して SUM のオフライン展開モードを起動してください。

### 【注意】

DL20/ML30 では、iLO の『ネットワークインターフェイス設定』のデフォルト設定が『共有ネットワークポート』となっています。SUM オフライン展開モードご使用時は、SPH ISO イメージを書き込んだ媒体から起動してください。

## 5.10 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をご使用になる場合、下表記載の SPH に収録されているファームウェアバージョンは、ダウングレードには対応しておりません。

形名(*1) or 搭載システム装置	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	10.51.3
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+	10.51.5
TQ-N□□-727055-B21	Ethernet 10Gb 2 ポート 562SFP+ ネットワークアダプター	
HA8000V / ML350 Gen10 オンボード NIC	Ethernet 1Gb 4-port 369i ネットワークアダプター	1.2529.0

(\*1)：□には製品構成などにより異なった英数字が入ります。

## 5.11 Windows 環境における QLogic 製ファイバーチャネルホストバスアダプターのドライバとファームウェアについて

QLogic 製ファイバーチャネルホストバスアダプターを Windows 上でご使用になる場合、SPH に収録されているドライバとファームウェアの組合せで、リンクダウンが発生した場合にバス冗長化ソフトウェアによるバス交替が出来ない等の問題が発生する可能性があります。

詳細は「[日立アドバンストサーバ HA8000V シリーズ](#)」の「製品に関する重要なお知らせ」を参照してください。

Windows をご使用になる場合は、下表のドライバとファームウェアを「[日立アドバンストサーバ HA8000V シリーズ](#)」の「ドライバ・ファームウェア・ユーティリティ」のページからダウンロードしてご使用願います。

形名(*1)	製品名	ドライババージョン	ファームウェアバージョン
TQ-C□□-P9D93A TQ-C□□-P9D94A	SN1100Q 16Gb Single Port ファイバーチャネル ホスト バス アダプター SN1100Q 16Gb Dual Port ファイバーチャネル ホスト バス アダプター	9.2.9.22	01.72.03
TQ-C□□-P9M75A TQ-C□□-P9M76A	SN1600Q 32Gb 1port ファイバーチャネル ホスト バス アダプター SN1600Q 32Gb 2port ファイバーチャネル ホスト バス アダプター	9.2.9.22	01.72.03

(\*1)：□には製品構成などにより異なった英数字が入ります。

## 6. SPH収録コンテンツ一覧

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

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

以降、それぞれのコンテンツについて説明します。

### 6.1 お客様により適用が必要なコンテンツ

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

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

#### 【Broadcom 製 1Gb LAN アダプタ】

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



(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

[https://www.hitachi.co.jp/cgi-bin/soft/sjst/select\\_open.cgi](https://www.hitachi.co.jp/cgi-bin/soft/sjst/select_open.cgi)

に掲載されている Windows 版 ITRU 取扱説明書の 3 章をご確認願います。

(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。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、<https://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

- [Application - System Management](#)
- [BIOS - System ROM](#)
- [Driver – Chipset](#)
- [Driver – Network](#)
- [Driver – Storage](#)
- [Driver - Storage Controller](#)
- [Driver - Storage Fibre Channel and Fibre Channel over Ethernet](#)
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- [Firmware - PCIe NVMe Storage Disk](#)
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- [Software - Storage Fibre Channel](#)
- [Software - Storage Fibre Channel HBA](#)
- [Software - System Management](#)
- [Utility - Tools](#)

## 6.2.1 Application - System Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
1	Integrated Smart Update Tools 2.5.0 for ESXi 6.5	cp038229.zip	-	2019.12.01	6.5.0.2.5.0.0-83	更新
2	Integrated Smart Update Tools 2.5.0 for ESXi 6.7	cp038233.zip	-	2019.12.01	6.7.0.2.5.0.0-83	更新
3	Integrated Smart Update Tools for Linux x64	sut-2.5.0-71.linux.x86_64.rpm	-	2.5.0.0	2.5.0-71.linux	更新
4	Integrated Smart Update Tools for Windows x64	cp038225.exe	-	2.5.0.0	2.5.0.0	更新

## 6.2.2 BIOS - System ROM

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
5	Online ROM Flash Component for Linux - OEM System ROM U34	firmware-system-oem-u34-2.22_2019_11_13-1.x86_64.rpm	System BIOS - U34	2.22_11-13-2019	v2.22 (11/13/2019)	更新
6	Online ROM Flash Component for Linux - System ROM U30	firmware-system-oem-u30-2.22_2019_11_13-1.x86_64.rpm	System BIOS - U30	2.22_11-13-2019	v2.22 (11/13/2019)	更新
7	Online ROM Flash Component for Linux - System ROM U32	firmware-system-oem-u32-2.22_2019_11_13-1.x86_64.rpm	System BIOS - U32	2.22_11-13-2019	v2.22 (11/13/2019)	更新
8	Online ROM Flash Component for Linux - System ROM U41	firmware-system-oem-u41-2.22_2019_11_13-1.x86_64.rpm	System BIOS - U41	2.22_11-13-2019	v2.22 (11/13/2019)	更新
9	Online ROM Flash Component for Linux - System ROM U43	firmware-system-oem-u43-2.10_2019_09_12-1.x86_64.rpm	System BIOS - U43	2.10_09-12-2019	v2.10 (09/12/2019)	更新
10	Online ROM Flash Component for Linux - System ROM U44	firmware-system-oem-u44-2.10_2019_09_12-1.x86_64.rpm	System BIOS - U44	2.10_09-12-2019	v2.10 (09/12/2019)	更新
11	Online ROM Flash Component for Windows x64 - OEM System ROM U34	cp042164.exe	System BIOS - U34	2.22_11-13-2019	v2.22 (11/13/2019)	更新
12	Online ROM Flash Component for Windows x64 - System ROM U30	cp042152.exe	System BIOS - U30	2.22_11-13-2019	v2.22 (11/13/2019)	更新
13	Online ROM Flash Component for Windows x64 - System ROM U32	cp042197.exe	System BIOS - U32	2.22_11-13-2019	v2.22 (11/13/2019)	更新
14	Online ROM Flash Component for Windows x64 - System ROM U41	cp042200.exe	System BIOS - U41	2.22_11-13-2019	v2.22 (11/13/2019)	更新
15	Online ROM Flash Component for Windows x64 - System ROM U43	cp041364.exe	System BIOS - U43	2.10_09-12-2019	v2.10 (09/12/2019)	更新
16	Online ROM Flash Component for Windows x64 - System ROM U44	cp041367.exe	System BIOS - U44	2.10_09-12-2019	v2.10 (09/12/2019)	更新
17	ROM Flash Firmware Package - System ROM U30	OEM.U30_2.22_11_13_2019.fwpkg	System BIOS - U30	2.22_11-13-2019	v2.22 (11/13/2019)	更新
18	ROM Flash Firmware Package - System ROM U32	OEM.U32_2.22_11_13_2019.fwpkg	System BIOS - U32	2.22_11-13-2019	v2.22 (11/13/2019)	更新
19	ROM Flash Firmware Package - System ROM U34	OEM.U34_2.22_11_13_2019.fwpkg	System BIOS - U34	2.22_11-13-2019	v2.22 (11/13/2019)	更新
20	ROM Flash Firmware Package - System ROM U41	OEM.U41_2.22_11_13_2019.fwpkg	System BIOS - U41	2.22_11-13-2019	v2.22 (11/13/2019)	更新
21	ROM Flash Firmware Package - System ROM U43	OEM.U43_2.10_09_12_2019.fwpkg	System BIOS - U43	2.10_09-12-2019	v2.10 (09/12/2019)	更新
22	ROM Flash Firmware Package - System ROM U44	OEM.U44_2.10_09_12_2019.fwpkg	System BIOS - U44	2.10_09-12-2019	v2.10 (09/12/2019)	更新

### 6.2.3 Driver – Chipset

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
23	Identifiers for Intel Xeon E-2xxx Processor for Windows	cp039323.exe	-	10.1.18015.8142	10.1.18015.8142	更新
24	Identifiers for Intel Xeon Scalable Processors (First and Second Generation) for Windows	cp040561.exe	-	10.1.18015.8142	10.1.18015.8142	更新

### 6.2.4 Driver – Network

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
25	HPE Broadcom NetXtreme-E Driver for Windows Server 2012 R2	cp040546.exe	HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	214.0.177.0 (B)	214.0.177.0 (B)	更新
26	HPE Broadcom NetXtreme-E Driver for Windows Server 2012 R2	cp040546.exe	HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	214.0.177.0 (B)	214.0.177.0 (B)	更新
27	HPE Broadcom NetXtreme-E Driver for Windows Server 2016	cp040547.exe	HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	214.0.177.0 (B)	214.0.177.0 (B)	更新
28	HPE Broadcom NetXtreme-E Driver for Windows Server 2016	cp040547.exe	HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	214.0.177.0 (B)	214.0.177.0 (B)	更新
29	HPE Broadcom NetXtreme-E Driver for Windows Server 2019	cp040548.exe	HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	214.0.177.0 (B)	214.0.177.0 (B)	更新
30	HPE Broadcom NetXtreme-E Driver for Windows Server 2019	cp040548.exe	HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	214.0.177.0 (B)	214.0.177.0 (B)	更新
31	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 7	kmod-bnxt_en-1.9.2-214.0.182.0.rhel7u6.x86_64.rpm	HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	1.9.2-214.0.182.0 (C)	1.9.2-214.0.182.0.rhel7u6	更新
32	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 7	kmod-bnxt_en-1.9.2-214.0.182.0.rhel7u6.x86_64.rpm	HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	1.9.2-214.0.182.0 (C)	1.9.2-214.0.182.0.rhel7u6	更新
33	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 6.5	cp039893.zip	HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	2019.12.20	214.0.190.0-1 OEM.650.0.0.4598673	更新
34	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 6.5	cp039893.zip	HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	2019.12.20	214.0.190.0-1 OEM.650.0.0.4598673	更新
35	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 6.7	cp039894.zip	HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	2019.12.20	214.0.195.0-1 OEM.670.0.0.8169922	更新
36	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 6.7	cp039894.zip	HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	2019.12.20	214.0.195.0-1 OEM.670.0.0.8169922	更新

37	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 7 Update 6	libbnxt_re-214.0.181.0-rhel7u6.x86_64.rpm	HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	214.0.181.0 (C)	214.0.181.0	更新
38	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 7 Update 6	libbnxt_re-214.0.181.0-rhel7u6.x86_64.rpm	HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	214.0.181.0 (C)	214.0.181.0	更新
39	HPE Broadcom NX1 1Gb Driver for Windows Server x64 Editions	cp040545.exe	HP Ethernet 1Gb 2-port 332i Adapter (22E8)	214.0.0.0 (C)	214.0.0.0 (C)	更新
40	HPE Broadcom NX1 1Gb Driver for Windows Server x64 Editions	cp040545.exe	HP Ethernet 1Gb 2-port 332T Adapter	214.0.0.0 (C)	214.0.0.0 (C)	更新
41	HPE Broadcom NX1 1Gb Driver for Windows Server x64 Editions	cp040545.exe	HP Ethernet 1Gb 4-port 331FLR Adapter	214.0.0.0 (C)	214.0.0.0 (C)	更新
42	HPE Broadcom NX1 1Gb Driver for Windows Server x64 Editions	cp040545.exe	HP Ethernet 1Gb 4-port 331T Adapter	214.0.0.0 (C)	214.0.0.0 (C)	更新
43	HPE Broadcom NX1 1Gb Driver for Windows Server x64 Editions	cp040545.exe	HP Ethernet 1Gb 4-port 331i Adapter (22BE)	214.0.0.0 (C)	214.0.0.0 (C)	更新
44	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.137y-1.rhel7u6.x86_64.rpm	HP Ethernet 1Gb 2-port 332i Adapter (22E8)	3.137y-1 (B)	3.137y-1.rhel7u6	更新
45	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.137y-1.rhel7u6.x86_64.rpm	HP Ethernet 1Gb 2-port 332T Adapter	3.137y-1 (B)	3.137y-1.rhel7u6	更新
46	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.137y-1.rhel7u6.x86_64.rpm	HP Ethernet 1Gb 4-port 331FLR Adapter	3.137y-1 (B)	3.137y-1.rhel7u6	更新
47	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.137y-1.rhel7u6.x86_64.rpm	HP Ethernet 1Gb 4-port 331T Adapter	3.137y-1 (B)	3.137y-1.rhel7u6	更新
48	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.137y-1.rhel7u6.x86_64.rpm	HP Ethernet 1Gb 4-port 331i Adapter (22BE)	3.137y-1 (B)	3.137y-1.rhel7u6	更新
49	HPE Intel E1R Driver for Windows Server 2012 R2	cp040854.exe	HP Ethernet 1Gb 2-port 361T Adapter	12.14.8.1	12.14.8.1	更新
50	HPE Intel E1R Driver for Windows Server 2012 R2	cp040854.exe	HP Ethernet 1Gb 4-port 366FLR Adapter	12.14.8.1	12.14.8.1	更新
51	HPE Intel E1R Driver for Windows Server 2012 R2	cp040854.exe	HP Ethernet 1Gb 4-port 366T Adapter	12.14.8.1	12.14.8.1	更新
52	HPE Intel E1R Driver for Windows Server 2016	cp040879.exe	HP Ethernet 1Gb 2-port 361T Adapter	12.15.184.7	12.15.184.7	更新
53	HPE Intel E1R Driver for Windows Server 2016	cp040879.exe	HP Ethernet 1Gb 4-port 366FLR Adapter	12.15.184.7	12.15.184.7	更新
54	HPE Intel E1R Driver for Windows Server 2016	cp040879.exe	HP Ethernet 1Gb 4-port 366T Adapter	12.15.184.7	12.15.184.7	更新
55	HPE Intel E1R Driver for Windows Server 2019	cp040874.exe	HP Ethernet 1Gb 2-port 361T Adapter	12.18.9.1	12.18.9.1	更新
56	HPE Intel E1R Driver for Windows Server 2019	cp040874.exe	HP Ethernet 1Gb 4-port 366FLR Adapter	12.18.9.1	12.18.9.1	更新
57	HPE Intel E1R Driver for Windows Server 2019	cp040874.exe	HP Ethernet 1Gb 4-port 366T Adapter	12.18.9.1	12.18.9.1	更新

58	HPE Intel i40e Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40e-2.10.19.30-2.rhel7u6.x86_64.rpm	HPE Ethernet 1Gb 4-port 369i Adapter	2.10.19.30-2	2.10.19.30-2.rhel7u6	更新
59	HPE Intel i40e Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40e-2.10.19.30-2.rhel7u6.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	2.10.19.30-2	2.10.19.30-2.rhel7u6	更新
60	HPE Intel i40e Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40e-2.10.19.30-2.rhel7u6.x86_64.rpm	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	2.10.19.30-2	2.10.19.30-2.rhel7u6	更新
61	HPE Intel i40e Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40e-2.10.19.30-2.rhel7u7.x86_64.rpm	HPE Ethernet 1Gb 4-port 369i Adapter	2.10.19.30-2	2.10.19.30-2.rhel7u7	新規追加
62	HPE Intel i40e Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40e-2.10.19.30-2.rhel7u7.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	2.10.19.30-2	2.10.19.30-2.rhel7u7	新規追加
63	HPE Intel i40e Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40e-2.10.19.30-2.rhel7u7.x86_64.rpm	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	2.10.19.30-2	2.10.19.30-2.rhel7u7	新規追加
64	HPE Intel i40ea Driver for Windows Server 2012 R2	cp040855.exe	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	1.11.101.0	1.11.101.0	更新
65	HPE Intel i40ea Driver for Windows Server 2012 R2	cp040855.exe	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	1.11.101.0	1.11.101.0	更新
66	HPE Intel i40ea Driver for Windows Server 2016	cp040856.exe	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	1.11.101.0	1.11.101.0	更新
67	HPE Intel i40ea Driver for Windows Server 2016	cp040856.exe	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	1.11.101.0	1.11.101.0	更新
68	HPE Intel i40ea Driver for Windows Server 2019	cp040857.exe	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	1.11.101.0	1.11.101.0	更新
69	HPE Intel i40ea Driver for Windows Server 2019	cp040857.exe	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	1.11.101.0	1.11.101.0	更新
70	HPE Intel i40eb Driver for Windows Server 2012 R2	cp040858.exe	HPE Ethernet 1Gb 4-port 369i Adapter	1.11.101.0	1.11.101.0	更新
71	HPE Intel i40eb Driver for Windows Server 2016	cp040859.exe	HPE Ethernet 1Gb 4-port 369i Adapter	1.11.101.0	1.11.101.0	更新
72	HPE Intel i40eb Driver for Windows Server 2019	cp040860.exe	HPE Ethernet 1Gb 4-port 369i Adapter	1.11.101.0	1.11.101.0	更新
73	HPE Intel i40en Driver for VMware vSphere 6.5	cp040369.zip	HPE Ethernet 1Gb 4-port 369i Adapter	2019.12.20	1.9.5-1OEM.650.0.0.4598673	更新
74	HPE Intel i40en Driver for VMware vSphere 6.5	cp040369.zip	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	2019.12.20	1.9.5-1OEM.650.0.0.4598673	更新
75	HPE Intel i40en Driver for VMware vSphere 6.5	cp040369.zip	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	2019.12.20	1.9.5-1OEM.650.0.0.4598673	更新
76	HPE Intel i40en Driver for VMware vSphere 6.7	cp040370.zip	HPE Ethernet 1Gb 4-port 369i Adapter	2019.12.20	1.9.5-1OEM.670.0.0.8169922	更新

77	HPE Intel i40en Driver for VMware vSphere 6.7	cp040370.zip	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	2019.12.20	1.9.5-1OEM.670.0.0.8169922	更新
78	HPE Intel i40en Driver for VMware vSphere 6.7	cp040370.zip	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	2019.12.20	1.9.5-1OEM.670.0.0.8169922	更新
79	HPE Intel iavf Driver for Windows Server 2012 R2	cp040867.exe	-	1.7.119.0	1.7.119.0	新規追加
80	HPE Intel iavf Driver for Windows Server 2016	cp040868.exe	-	1.7.119.0	1.7.119.0	新規追加
81	HPE Intel iavf Driver for Windows Server 2019	cp040869.exe	-	1.7.119.0	1.7.119.0	新規追加
82	HPE Intel iavf Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-iavf-3.7.61.20-1.rhel7u6.x86_64.rpm	HPE Ethernet 1Gb 4-port 369i Adapter	3.7.61.20-1	3.7.61.20-1.rhel7u6	更新
83	HPE Intel iavf Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-iavf-3.7.61.20-1.rhel7u6.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	3.7.61.20-1	3.7.61.20-1.rhel7u6	更新
84	HPE Intel iavf Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-iavf-3.7.61.20-1.rhel7u6.x86_64.rpm	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	3.7.61.20-1	3.7.61.20-1.rhel7u6	更新
85	HPE Intel iavf Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-iavf-3.7.61.20-1.rhel7u7.x86_64.rpm	HPE Ethernet 1Gb 4-port 369i Adapter	3.7.61.20-1	3.7.61.20-1.rhel7u7	新規追加
86	HPE Intel iavf Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-iavf-3.7.61.20-1.rhel7u7.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	3.7.61.20-1	3.7.61.20-1.rhel7u7	新規追加
87	HPE Intel iavf Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-iavf-3.7.61.20-1.rhel7u7.x86_64.rpm	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	3.7.61.20-1	3.7.61.20-1.rhel7u7	新規追加
88	HPE Intel igb Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-igb-6.2.1-1.rhel7u6.x86_64.rpm	HP Ethernet 1Gb 2-port 361T Adapter	6.2.1-1	6.2.1-1.rhel7u6	更新
89	HPE Intel igb Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-igb-6.2.1-1.rhel7u6.x86_64.rpm	HP Ethernet 1Gb 4-port 366FLR Adapter	6.2.1-1	6.2.1-1.rhel7u6	更新
90	HPE Intel igb Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-igb-6.2.1-1.rhel7u6.x86_64.rpm	HP Ethernet 1Gb 4-port 366T Adapter	6.2.1-1	6.2.1-1.rhel7u6	更新
91	HPE Intel igb Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-igb-6.2.1-1.rhel7u7.x86_64.rpm	HP Ethernet 1Gb 2-port 361T Adapter	6.2.1-1	6.2.1-1.rhel7u7	新規追加
92	HPE Intel igb Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-igb-6.2.1-1.rhel7u7.x86_64.rpm	HP Ethernet 1Gb 4-port 366FLR Adapter	6.2.1-1	6.2.1-1.rhel7u7	新規追加
93	HPE Intel igb Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-igb-6.2.1-1.rhel7u7.x86_64.rpm	HP Ethernet 1Gb 4-port 366T Adapter	6.2.1-1	6.2.1-1.rhel7u7	新規追加
94	HPE Intel igbn Driver for VMware vSphere 6.5	cp040825.zip	HP Ethernet 1Gb 2-port 361T Adapter	2019.12.20	1.4.10-1OEM.600.0.0.2768847	更新
95	HPE Intel igbn Driver for VMware vSphere 6.5	cp040825.zip	HP Ethernet 1Gb 4-port 366FLR Adapter	2019.12.20	1.4.10-1OEM.600.0.0.2768847	更新
96	HPE Intel igbn Driver for VMware vSphere 6.5	cp040825.zip	HP Ethernet 1Gb 4-port 366T Adapter	2019.12.20	1.4.10-1OEM.600.0.0.2768847	更新
97	HPE Intel igbn Driver for VMware vSphere 6.7	cp040829.zip	HP Ethernet 1Gb 2-port 361T Adapter	2019.12.20	1.4.10-1OEM.670.0.0.8169922	更新
98	HPE Intel igbn Driver for VMware vSphere 6.7	cp040829.zip	HP Ethernet 1Gb 4-port 366FLR Adapter	2019.12.20	1.4.10-1OEM.670.0.0.8169922	更新

99	HPE Intel igbn Driver for VMware vSphere 6.7	cp040829.zip	HP Ethernet 1Gb 4-port 366T Adapter	2019.12.20	1.4.10-10EM.670.0.0.8169922	更新
100	HPE Intel ixgbe Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-ixgbe-5.6.4-2.rhel7u6.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	5.6.4-2	5.6.4-2.rhel7u6	更新
101	HPE Intel ixgbe Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-ixgbe-5.6.4-2.rhel7u6.x86_64.rpm	HPE Ethernet 10Gb 2-port 562T Adapter	5.6.4-2	5.6.4-2.rhel7u6	更新
102	HPE Intel ixgbe Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-ixgbe-5.6.4-2.rhel7u7.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	5.6.4-2	5.6.4-2.rhel7u7	新規追加
103	HPE Intel ixgbe Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-ixgbe-5.6.4-2.rhel7u7.x86_64.rpm	HPE Ethernet 10Gb 2-port 562T Adapter	5.6.4-2	5.6.4-2.rhel7u7	新規追加
104	HPE Intel ixgben Driver for VMware vSphere 6.5	cp040371.zip	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	2019.12.20	1.7.20-10EM.600.0.0.2768847	更新
105	HPE Intel ixgben Driver for VMware vSphere 6.5	cp040371.zip	HPE Ethernet 10Gb 2-port 562T Adapter	2019.12.20	1.7.20-10EM.600.0.0.2768847	更新
106	HPE Intel ixgben Driver for VMware vSphere 6.7	cp040372.zip	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	2019.12.20	1.7.20-10EM.670.0.0.8169922	更新
107	HPE Intel ixgben Driver for VMware vSphere 6.7	cp040372.zip	HPE Ethernet 10Gb 2-port 562T Adapter	2019.12.20	1.7.20-10EM.670.0.0.8169922	更新
108	HPE Intel ixgbev Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-ixgbev-4.6.2-2.rhel7u6.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	4.6.2-2	4.6.2-2.rhel7u6	更新
109	HPE Intel ixgbev Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-ixgbev-4.6.2-2.rhel7u6.x86_64.rpm	HPE Ethernet 10Gb 2-port 562T Adapter	4.6.2-2	4.6.2-2.rhel7u6	更新
110	HPE Intel ixgbev Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-ixgbev-4.6.2-2.rhel7u7.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	4.6.2-2	4.6.2-2.rhel7u7	新規追加
111	HPE Intel ixgbev Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-ixgbev-4.6.2-2.rhel7u7.x86_64.rpm	HPE Ethernet 10Gb 2-port 562T Adapter	4.6.2-2	4.6.2-2.rhel7u7	新規追加
112	HPE Intel ixS Driver for Windows Server 2012 R2	cp040863.exe	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	3.14.132.0 (B)	3.14.132.0 (B)	更新
113	HPE Intel ixS Driver for Windows Server 2012 R2	cp040863.exe	HPE Ethernet 10Gb 2-port 562T Adapter	3.14.132.0 (B)	3.14.132.0 (B)	更新
114	HPE Intel ixS Driver for Windows Server 2016	cp040864.exe	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	4.1.131.0 (B)	4.1.131.0 (B)	更新
115	HPE Intel ixS Driver for Windows Server 2016	cp040864.exe	HPE Ethernet 10Gb 2-port 562T Adapter	4.1.131.0 (B)	4.1.131.0 (B)	更新
116	HPE Intel ixS Driver for Windows Server 2019	cp040865.exe	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	4.1.143.0 (B)	4.1.143.0 (B)	更新
117	HPE Intel ixS Driver for Windows Server 2019	cp040865.exe	HPE Ethernet 10Gb 2-port 562T Adapter	4.1.143.0 (B)	4.1.143.0 (B)	更新
118	HPE Intel vxN Driver for Windows Server 2012 R2	cp040881.exe	-	1.0.16.1 (B)	1.0.16.1 (B)	更新
119	HPE Intel vxN Driver for Windows Server 2016	cp040880.exe	-	2.0.210.0 (D)	2.0.210.0 (D)	更新
120	HPE Intel vxN Driver for Windows Server 2019	cp040870.exe	-	2.1.138.0 (B)	2.1.138.0 (B)	更新
121	HPE Intel vxS Driver for Windows Server 2012 R2	cp040871.exe	-	1.2.131.0 (B)	1.2.131.0 (B)	更新



122	HPE Intel vxs Driver for Windows Server 2016	cp040872.exe	-	2.1.133.0 (B)	2.1.133.0 (B)	更新
123	HPE Intel vxs Driver for Windows Server 2019	cp040873.exe	-	2.1.138.0 (B)	2.1.138.0 (B)	更新
124	HPE Mellanox CX4LX and CX5 Driver for Windows Server 2012 R2	cp039897.exe	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	2.30.21713.0	2.30.21713.0	更新
125	HPE Mellanox CX4LX and CX5 Driver for Windows Server 2012 R2	cp039897.exe	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	2.30.21713.0	2.30.21713.0	更新
126	HPE Mellanox CX4LX and CX5 Driver for Windows Server 2012 R2	cp039897.exe	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	2.30.21713.0	2.30.21713.0	更新
127	HPE Mellanox CX4LX and CX5 Driver for Windows Server 2016	cp039898.exe	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	2.30.21713.0	2.30.21713.0	更新
128	HPE Mellanox CX4LX and CX5 Driver for Windows Server 2016	cp039898.exe	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	2.30.21713.0	2.30.21713.0	更新
129	HPE Mellanox CX4LX and CX5 Driver for Windows Server 2016	cp039898.exe	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	2.30.21713.0	2.30.21713.0	更新
130	HPE Mellanox CX4LX and CX5 Driver for Windows Server 2019	cp039899.exe	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	2.30.21713.0	2.30.21713.0	更新
131	HPE Mellanox CX4LX and CX5 Driver for Windows Server 2019	cp039899.exe	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	2.30.21713.0	2.30.21713.0	更新
132	HPE Mellanox CX4LX and CX5 Driver for Windows Server 2019	cp039899.exe	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	2.30.21713.0	2.30.21713.0	更新
133	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Red Hat Enterprise Linux 7 Update 6 (x86_64)	kmod-mlnx-ofa_kernel-4.7-OFED.4.7.1.0.0.1.g1c4bf42.rhel7u6.x86_64.rpm	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	4.7	4.7	更新
134	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Red Hat Enterprise Linux 7 Update 6 (x86_64)	kmod-mlnx-ofa_kernel-4.7-OFED.4.7.1.0.0.1.g1c4bf42.rhel7u6.x86_64.rpm	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	4.7	4.7	更新
135	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Red Hat Enterprise Linux 7 Update 6 (x86_64)	kmod-mlnx-ofa_kernel-4.7-OFED.4.7.1.0.0.1.g1c4bf42.rhel7u6.x86_64.rpm	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	4.7	4.7	更新
136	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Red Hat Enterprise Linux 7 Update 6 (x86_64)	mlnx-ofa_kernel-4.7-OFED.4.7.1.0.0.1.g1c4bf42.rhel7u6.x86_64.rpm	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	4.7	4.7	更新
137	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Red Hat Enterprise Linux 7 Update 6 (x86_64)	mlnx-ofa_kernel-4.7-OFED.4.7.1.0.0.1.g1c4bf42.rhel7u6.x86_64.rpm	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	4.7	4.7	更新

138	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Red Hat Enterprise Linux 7 Update 6 (x86_64)	mlnx-ofa_kernel-4.7-OFED.4.7.1.0.0.1.g1c4bf42.rhel7u6.x86_64.rpm	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	4.7	4.7	更新
139	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Red Hat Enterprise Linux 7 Update 7 (x86_64)	kmod-mlnx-ofa_kernel-4.7-OFED.4.7.1.0.0.1.g1c4bf42.rhel7u7.x86_64.rpm	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	4.7	4.7	新規追加
140	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Red Hat Enterprise Linux 7 Update 7 (x86_64)	kmod-mlnx-ofa_kernel-4.7-OFED.4.7.1.0.0.1.g1c4bf42.rhel7u7.x86_64.rpm	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	4.7	4.7	新規追加
141	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Red Hat Enterprise Linux 7 Update 7 (x86_64)	kmod-mlnx-ofa_kernel-4.7-OFED.4.7.1.0.0.1.g1c4bf42.rhel7u7.x86_64.rpm	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	4.7	4.7	新規追加
142	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Red Hat Enterprise Linux 7 Update 7 (x86_64)	mlnx-ofa_kernel-4.7-OFED.4.7.1.0.0.1.g1c4bf42.rhel7u7.x86_64.rpm	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	4.7	4.7	新規追加
143	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Red Hat Enterprise Linux 7 Update 7 (x86_64)	mlnx-ofa_kernel-4.7-OFED.4.7.1.0.0.1.g1c4bf42.rhel7u7.x86_64.rpm	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	4.7	4.7	新規追加
144	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Red Hat Enterprise Linux 7 Update 7 (x86_64)	mlnx-ofa_kernel-4.7-OFED.4.7.1.0.0.1.g1c4bf42.rhel7u7.x86_64.rpm	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	4.7	4.7	新規追加
145	HPE QLogic FastLinQ 10/25/50 GbE Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-qlgc-fastlinq-8.42.10.0-1.rhel7u6.x86_64.rpm	HPE Ethernet 10Gb 2-port 521T Adapter	8.42.8.0-1	8.42.8.0-1.rhel7u6	更新
146	HPE QLogic FastLinQ 10/25/50 GbE Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-qlgc-fastlinq-8.42.10.0-1.rhel7u7.x86_64.rpm	HPE Ethernet 10Gb 2-port 521T Adapter	8.42.8.0-1	8.42.8.0-1.rhel7u7	新規追加
147	HPE QLogic FastLinQ 10/25/50 GbE Drivers for Windows Server x64 Editions	cp039900.exe	HPE Ethernet 10Gb 2-port 521T Adapter	8.42.10.0	8.42.10.0	更新
148	HPE QLogic FastLinQ 10/25/50 GbE Multifunction Driver for VMware vSphere 6.5	cp039895.zip	HPE Ethernet 10Gb 2-port 521T Adapter	2019.12.20	3.11.16.0-10EM.650.0.0.4598673	更新
149	HPE QLogic FastLinQ 10/25/50 GbE Multifunction Driver for VMware vSphere 6.7	cp039896.zip	HPE Ethernet 10Gb 2-port 521T Adapter	2019.12.20	3.11.16.0-10EM.670.0.0.8169922	更新
150	HPE QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 6.5	cp040826.zip	HP Ethernet 10Gb 2-port 530SFP+ Adapter	2019.12.20	1.0.87.0-10EM.650.0.0.4598673	更新
151	HPE QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 6.5	cp040826.zip	HP Ethernet 10Gb 2-port 530T Adapter	2019.12.20	1.0.87.0-10EM.650.0.0.4598673	更新
152	HPE QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 6.5	cp040826.zip	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	2019.12.20	1.0.87.0-10EM.650.0.0.4598673	更新
153	HPE QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 6.7	cp040827.zip	HP Ethernet 10Gb 2-port 530SFP+ Adapter	2019.12.20	1.0.87.0-10EM.670.0.0.8169922	更新
154	HPE QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 6.7	cp040827.zip	HP Ethernet 10Gb 2-port 530T Adapter	2019.12.20	1.0.87.0-10EM.670.0.0.8169922	更新
155	HPE QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 6.7	cp040827.zip	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	2019.12.20	1.0.87.0-10EM.670.0.0.8169922	更新

156	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-netxtreme2-7.14.63-1.rhel7u6.x86_64.rpm	HP Ethernet 10Gb 2-port 530SFP+ Adapter	7.14.63-1	7.14.63-1.rhel7u6	更新
157	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-netxtreme2-7.14.63-1.rhel7u6.x86_64.rpm	HP Ethernet 10Gb 2-port 530T Adapter	7.14.63-1	7.14.63-1.rhel7u6	更新
158	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-netxtreme2-7.14.63-1.rhel7u6.x86_64.rpm	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	7.14.63-1	7.14.63-1.rhel7u6	更新
159	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-netxtreme2-7.14.63-1.rhel7u7.x86_64.rpm	HP Ethernet 10Gb 2-port 530SFP+ Adapter	7.14.63-1	7.14.63-1.rhel7u7	新規追加
160	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-netxtreme2-7.14.63-1.rhel7u7.x86_64.rpm	HP Ethernet 10Gb 2-port 530T Adapter	7.14.63-1	7.14.63-1.rhel7u7	新規追加
161	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-netxtreme2-7.14.63-1.rhel7u7.x86_64.rpm	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	7.14.63-1	7.14.63-1.rhel7u7	新規追加
162	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Windows Server x64 Editions	cp040875.exe	HP Ethernet 10Gb 2-port 530SFP+ Adapter	7.13.171.0	7.13.171.0	更新
163	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Windows Server x64 Editions	cp040875.exe	HP Ethernet 10Gb 2-port 530T Adapter	7.13.171.0	7.13.171.0	更新
164	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Windows Server x64 Editions	cp040875.exe	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	7.13.171.0	7.13.171.0	更新
165	net-mst kernel module driver component for VMware ESXi 6.5 and 6.7	cp038662.zip	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	2019.01.02	4.12.0.105-10EM.650.0.0.4598673	更新
166	net-mst kernel module driver component for VMware ESXi 6.5 and 6.7	cp038662.zip	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	2019.01.02	4.12.0.105-10EM.650.0.0.4598673	更新
167	net-mst kernel module driver component for VMware ESXi 6.5 and 6.7	cp038662.zip	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	2019.01.02	4.12.0.105-10EM.650.0.0.4598673	更新
168	nmlx5_en driver component for VMware ESXi 6.5	cp040234.zip	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	2019.06.19	4.16.14.2-10EM.650.0.0.4598673	更新
169	nmlx5_en driver component for VMware ESXi 6.5	cp040234.zip	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	2019.06.19	4.16.14.2-10EM.650.0.0.4598673	更新
170	nmlx5_en driver component for VMware ESXi 6.5	cp040234.zip	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	2019.06.19	4.16.14.2-10EM.650.0.0.4598673	更新
171	nmlx5_en driver component for VMware ESXi 6.7	cp040235.zip	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	2019.06.19	4.17.15.16-10EM.670.0.0.8169922	更新
172	nmlx5_en driver component for VMware ESXi 6.7	cp040235.zip	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	2019.06.19	4.17.15.16-10EM.670.0.0.8169922	更新
173	nmlx5_en driver component for VMware ESXi 6.7	cp040235.zip	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	2019.06.19	4.17.15.16-10EM.670.0.0.8169922	更新

## 6.2.5 Driver – Storage

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
174	HPE Smart Array S100i SR Gen10 SW RAID Driver for Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019	cp036435.exe	-	106.12.4.0	106.12.4.0	

## 6.2.6 Driver – Storage Controller

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
175	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.2.10-025.rhel7u6.x86_64.rpm	HPE Smart Array P408i-a SR Gen10 Controller	1.2.10-025	1.2.10-025.rhel7u6	更新
176	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.2.10-025.rhel7u6.x86_64.rpm	HPE Smart Array P408i-p SR Gen10 Controller	1.2.10-025	1.2.10-025.rhel7u6	更新
177	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.2.10-025.rhel7u6.x86_64.rpm	HPE Smart Array P816i-a SR Gen10 Controller	1.2.10-025	1.2.10-025.rhel7u6	更新
178	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.2.10-025.rhel7u6.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	1.2.10-025	1.2.10-025.rhel7u6	更新
179	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.2.10-025.rhel7u6.x86_64.rpm	HPE Smart Array E208i-a SR Gen10 Controller	1.2.10-025	1.2.10-025.rhel7u6	更新
180	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.2.10-025.rhel7u6.x86_64.rpm	HPE Smart Array E208i-p SR Gen10 Controller	1.2.10-025	1.2.10-025.rhel7u6	更新
181	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.2.10-025.rhel7u7.x86_64.rpm	HPE Smart Array P408i-a SR Gen10 Controller	1.2.10-025	1.2.10-025.rhel7u7	新規追加
182	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.2.10-025.rhel7u7.x86_64.rpm	HPE Smart Array P408i-p SR Gen10 Controller	1.2.10-025	1.2.10-025.rhel7u7	新規追加
183	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.2.10-025.rhel7u7.x86_64.rpm	HPE Smart Array P816i-a SR Gen10 Controller	1.2.10-025	1.2.10-025.rhel7u7	新規追加
184	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.2.10-025.rhel7u7.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	1.2.10-025	1.2.10-025.rhel7u7	新規追加
185	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.2.10-025.rhel7u7.x86_64.rpm	HPE Smart Array E208i-a SR Gen10 Controller	1.2.10-025	1.2.10-025.rhel7u7	新規追加
186	HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-1.2.10-025.rhel7u7.x86_64.rpm	HPE Smart Array E208i-p SR Gen10 Controller	1.2.10-025	1.2.10-025.rhel7u7	新規追加

187	HPE ProLiant Gen10 Smart Array Controller Driver for VMware vSphere 6.5 (Driver Component).	cp040982.zip	HPE Smart Array P408i-a SR Gen10 Controller	2019.12.01	1.0.4.3008-10 EM.650.0.0.4 598673	更新
188	HPE ProLiant Gen10 Smart Array Controller Driver for VMware vSphere 6.5 (Driver Component).	cp040982.zip	HPE Smart Array P408i-p SR Gen10 Controller	2019.12.01	1.0.4.3008-10 EM.650.0.0.4 598673	更新
189	HPE ProLiant Gen10 Smart Array Controller Driver for VMware vSphere 6.5 (Driver Component).	cp040982.zip	HPE Smart Array P816i-a SR Gen10 Controller	2019.12.01	1.0.4.3008-10 EM.650.0.0.4 598673	更新
190	HPE ProLiant Gen10 Smart Array Controller Driver for VMware vSphere 6.5 (Driver Component).	cp040982.zip	HPE Smart Array E208e-p SR Gen10 Controller	2019.12.01	1.0.4.3008-10 EM.650.0.0.4 598673	更新
191	HPE ProLiant Gen10 Smart Array Controller Driver for VMware vSphere 6.5 (Driver Component).	cp040982.zip	HPE Smart Array E208i-a SR Gen10 Controller	2019.12.01	1.0.4.3008-10 EM.650.0.0.4 598673	更新
192	HPE ProLiant Gen10 Smart Array Controller Driver for VMware vSphere 6.5 (Driver Component).	cp040982.zip	HPE Smart Array E208i-p SR Gen10 Controller	2019.12.01	1.0.4.3008-10 EM.650.0.0.4 598673	更新
193	HPE ProLiant Gen10 Smart Array Controller Driver for VMware vSphere 6.7 (Driver Component).	cp040981.zip	HPE Smart Array P408i-a SR Gen10 Controller	2019.12.01	1.0.4.3008-10 EM.670.0.0.8 169922	更新
194	HPE ProLiant Gen10 Smart Array Controller Driver for VMware vSphere 6.7 (Driver Component).	cp040981.zip	HPE Smart Array P408i-p SR Gen10 Controller	2019.12.01	1.0.4.3008-10 EM.670.0.0.8 169922	更新
195	HPE ProLiant Gen10 Smart Array Controller Driver for VMware vSphere 6.7 (Driver Component).	cp040981.zip	HPE Smart Array P816i-a SR Gen10 Controller	2019.12.01	1.0.4.3008-10 EM.670.0.0.8 169922	更新
196	HPE ProLiant Gen10 Smart Array Controller Driver for VMware vSphere 6.7 (Driver Component).	cp040981.zip	HPE Smart Array E208e-p SR Gen10 Controller	2019.12.01	1.0.4.3008-10 EM.670.0.0.8 169922	更新
197	HPE ProLiant Gen10 Smart Array Controller Driver for VMware vSphere 6.7 (Driver Component).	cp040981.zip	HPE Smart Array E208i-a SR Gen10 Controller	2019.12.01	1.0.4.3008-10 EM.670.0.0.8 169922	更新
198	HPE ProLiant Gen10 Smart Array Controller Driver for VMware vSphere 6.7 (Driver Component).	cp040981.zip	HPE Smart Array E208i-p SR Gen10 Controller	2019.12.01	1.0.4.3008-10 EM.670.0.0.8 169922	更新
199	HPE Smart Array Gen10 Controller Driver for Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019	cp041257.exe	HPE Smart Array P408i-a SR Gen10 Controller	106.166.0.1 022	106.166.0.102 2	更新
200	HPE Smart Array Gen10 Controller Driver for Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019	cp041257.exe	HPE Smart Array P408i-p SR Gen10 Controller	106.166.0.1 022	106.166.0.102 2	更新
201	HPE Smart Array Gen10 Controller Driver for Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019	cp041257.exe	HPE Smart Array P816i-a SR Gen10 Controller	106.166.0.1 022	106.166.0.102 2	更新

202	HPE Smart Array Gen10 Controller Driver for Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019	cp041257.exe	HPE Smart Array E208e-p SR Gen10 Controller	106.166.0.1022	106.166.0.1022	更新
203	HPE Smart Array Gen10 Controller Driver for Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019	cp041257.exe	HPE Smart Array E208i-a SR Gen10 Controller	106.166.0.1022	106.166.0.1022	更新
204	HPE Smart Array Gen10 Controller Driver for Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019	cp041257.exe	HPE Smart Array E208i-p SR Gen10 Controller	106.166.0.1022	106.166.0.1022	更新

## 6.2.7 Driver - Storage Fibre Channel and Fibre Channel over Ethernet

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
205	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Windows 2012R2 and Windows 2016	cp039579.exe	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	12.4.243.4	12.4.243.4	更新
206	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Windows 2012R2 and Windows 2016	cp039579.exe	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	12.4.243.4	12.4.243.4	更新
207	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Windows 2012R2 and Windows 2016	cp039579.exe	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	12.4.243.4	12.4.243.4	更新
208	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Windows 2012R2 and Windows 2016	cp039579.exe	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	12.4.243.4	12.4.243.4	更新
209	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Windows 2019	cp039578.exe	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	12.4.243.4	12.4.243.4	更新
210	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Windows 2019	cp039578.exe	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	12.4.243.4	12.4.243.4	更新
211	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Windows 2019	cp039578.exe	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	12.4.243.4	12.4.243.4	更新
212	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Windows 2019	cp039578.exe	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	12.4.243.4	12.4.243.4	更新
213	Red Hat Enterprise Linux 7 Server FC Driver Kit for HPE QLogic Host Bus Adapters and mezzanine Host Bus Adapters	kmod-qlogic-qla2xxx-10.01.00.52.07.6_k1-1.rhel7u7.x86_64.rpm	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	10.01.00.52.07.6-k1 (b)	10.01.00.52.07.6_k1-1.rhel7u7	新規追加

214	Red Hat Enterprise Linux 7 Server FC Driver Kit for HPE QLogic Host Bus Adapters and mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-10.01.00.52.07.6_k1-1.rhel7u7.x86_64.rpm	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	10.01.00.52.07.6-k1 (b)	10.01.00.52.07.6_k1-1.rhel7u7	新規追加
215	Red Hat Enterprise Linux 7 Server FC Driver Kit for HPE QLogic Host Bus Adapters and mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-10.01.00.52.07.6_k1-1.rhel7u7.x86_64.rpm	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	10.01.00.52.07.6-k1 (b)	10.01.00.52.07.6_k1-1.rhel7u7	新規追加
216	Red Hat Enterprise Linux 7 Server FC Driver Kit for HPE QLogic Host Bus Adapters and mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-10.01.00.52.07.6_k1-1.rhel7u7.x86_64.rpm	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	10.01.00.52.07.6-k1 (b)	10.01.00.52.07.6_k1-1.rhel7u7	新規追加
217	Red Hat Enterprise Linux 7 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and mezzanine Host Bus Adapters	kmod-elx-lpfc-12.4.270.3-1.rhel7u7.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	12.4.270.3	12.4.270.3-1.rhel7u7	新規追加
218	Red Hat Enterprise Linux 7 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and mezzanine Host Bus Adapters	kmod-elx-lpfc-12.4.270.3-1.rhel7u7.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	12.4.270.3	12.4.270.3-1.rhel7u7	新規追加
219	Red Hat Enterprise Linux 7 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and mezzanine Host Bus Adapters	kmod-elx-lpfc-12.4.270.3-1.rhel7u7.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	12.4.270.3	12.4.270.3-1.rhel7u7	新規追加
220	Red Hat Enterprise Linux 7 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and mezzanine Host Bus Adapters	kmod-elx-lpfc-12.4.270.3-1.rhel7u7.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	12.4.270.3	12.4.270.3-1.rhel7u7	新規追加
221	Red Hat Enterprise Linux 7 Update 6 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and mezzanine Host Bus Adapters	kmod-elx-lpfc-12.4.270.3-1.rhel7u6.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	12.4.270.3	12.4.270.3-1.rhel7u6	更新
222	Red Hat Enterprise Linux 7 Update 6 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and mezzanine Host Bus Adapters	kmod-elx-lpfc-12.4.270.3-1.rhel7u6.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	12.4.270.3	12.4.270.3-1.rhel7u6	更新
223	Red Hat Enterprise Linux 7 Update 6 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and mezzanine Host Bus Adapters	kmod-elx-lpfc-12.4.270.3-1.rhel7u6.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	12.4.270.3	12.4.270.3-1.rhel7u6	更新
224	Red Hat Enterprise Linux 7 Update 6 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and mezzanine Host Bus Adapters	kmod-elx-lpfc-12.4.270.3-1.rhel7u6.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	12.4.270.3	12.4.270.3-1.rhel7u6	更新
225	Red Hat Enterprise Linux 7 Update 6 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-10.01.00.52.07.6_k1-1.rhel7u6.x86_64.rpm	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	10.01.00.52.07.6-k1	10.01.00.52.07.6_k1-1.rhel7u6	更新

226	Red Hat Enterprise Linux 7 Update 6 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-10.0.1.00.52.07.6_k1-1.rhel7u6.x86_64.rpm	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	10.01.00.52.07.6-k1	10.01.00.52.07.6_k1-1.rhel7u6	更新
227	Red Hat Enterprise Linux 7 Update 6 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-10.0.1.00.52.07.6_k1-1.rhel7u6.x86_64.rpm	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	10.01.00.52.07.6-k1	10.01.00.52.07.6_k1-1.rhel7u6	更新
228	Red Hat Enterprise Linux 7 Update 6 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-10.0.1.00.52.07.6_k1-1.rhel7u6.x86_64.rpm	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	10.01.00.52.07.6-k1	10.01.00.52.07.6_k1-1.rhel7u6	更新

## 6.2.8 Driver - System

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
229	HPE Non-Volatile Memory Drivers for Microsoft Windows Server 2012 R2 and 2016	cp038534.exe	-	3.0.1.2	3.0.1.2	

## 6.2.9 Driver - System Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
230	iLO 5 Automatic Server Recovery Driver for Windows Server 2012 R2	cp040015.exe	-	4.6.0.0	4.6.0.0	更新
231	iLO 5 Automatic Server Recovery Driver for Windows Server 2016 and Server 2019	cp040016.exe	-	4.6.0.0	4.6.0.0	更新
232	iLO 5 Channel Interface Driver for Windows Server 2012 R2	cp040013.exe	-	4.6.0.0	4.6.0.0	更新
233	iLO 5 Channel Interface Driver for Windows Server 2016 and Server 2019	cp040014.exe	-	4.6.0.0	4.6.0.0	更新

## 6.2.10 Driver - Video

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
234	Matrox G200eH3 Video Controller Driver for Windows Server 2012 R2	cp040214.exe	-	9.15.1.224 (B)	9.15.1.224 (B)	更新
235	Matrox G200eH3 Video Controller Driver for Windows Server 2016 and Server 2019	cp040215.exe	-	9.15.1.224 (B)	9.15.1.224 (B)	更新

## 6.2.11 Firmware - Lights-Out Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
236	Language Pack - Japanese	cp042242.exe	Japanese Language Pack	2.10	2.10.11	更新
237	Language Pack - Japanese	firmware-ilo5-lpk-ja-ri11-2.10-1.1.x86_64.rpm	Japanese Language Pack	2.10	2.10.11	更新
238	Online ROM Flash Component for Linux - iLO 5	firmware-ilo5-2.10-1.1.x86_64.rpm	iLO 5	2.10	2.10	更新
239	Online ROM Flash Component for Windows x64 - iLO 5	cp041788.exe	iLO 5	2.10	2.10	更新



240	Online ROM Flash Firmware Package - iLO 5	ilo5_210.fwpkg	iLO 5	2.10	2.10	更新
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## 6.2.12 Firmware – Network

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
241	HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-bcm-nxe-1.7.6-1.1.x86_64.rpm	HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	1.7.6	214.0.224000	更新
242	HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-bcm-nxe-1.7.6-1.1.x86_64.rpm	HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	1.7.6	214.0.224000	更新
243	HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for VMware	CP040816.zip	HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	5.9.5	214.0.224000	更新
244	HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for VMware	CP040816.zip	HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	5.9.5	214.0.224000	更新
245	HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for Windows Server x64 Editions	cp040817.exe	HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	5.2.0.0	214.0.224000	更新
246	HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for Windows Server x64 Editions	cp040817.exe	HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	5.2.0.0	214.0.224000	更新
247	HPE Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-broadcom-2.24.2-1.1.x86_64.rpm	HP Ethernet 1Gb 2-port 332i Adapter (22E8)	2.24.2	20.14.57	更新
248	HPE Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-broadcom-2.24.2-1.1.x86_64.rpm	HP Ethernet 1Gb 2-port 332T Adapter	2.24.2	20.14.57	更新
249	HPE Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-broadcom-2.24.2-1.1.x86_64.rpm	HP Ethernet 1Gb 4-port 331FLR Adapter	2.24.2	20.14.57	更新
250	HPE Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-broadcom-2.24.2-1.1.x86_64.rpm	HP Ethernet 1Gb 4-port 331T Adapter	2.24.2	20.14.57	更新
251	HPE Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-broadcom-2.24.2-1.1.x86_64.rpm	HP Ethernet 1Gb 4-port 331i Adapter (22BE)	2.24.2	20.14.57	更新
252	HPE Broadcom NX1 Online Firmware Upgrade Utility for VMware	CP040813.zip	HP Ethernet 1Gb 2-port 332i Adapter (22E8)	1.25.2	20.14.57	更新
253	HPE Broadcom NX1 Online Firmware Upgrade Utility for VMware	CP040813.zip	HP Ethernet 1Gb 2-port 332T Adapter	1.25.2	20.14.57	更新
254	HPE Broadcom NX1 Online Firmware Upgrade Utility for VMware	CP040813.zip	HP Ethernet 1Gb 4-port 331FLR Adapter	1.25.2	20.14.57	更新
255	HPE Broadcom NX1 Online Firmware Upgrade Utility for VMware	CP040813.zip	HP Ethernet 1Gb 4-port 331T Adapter	1.25.2	20.14.57	更新
256	HPE Broadcom NX1 Online Firmware Upgrade Utility for VMware	CP040813.zip	HP Ethernet 1Gb 4-port 331i Adapter (22BE)	1.25.2	20.14.57	更新
257	HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp040814.exe	HP Ethernet 1Gb 2-port 332i Adapter (22E8)	5.2.0.0	20.14.57	更新

258	HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp040814.exe	HP Ethernet 1Gb 2-port 332T Adapter	5.2.0.0	20.14.57	更新
259	HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp040814.exe	HP Ethernet 1Gb 4-port 331FLR Adapter	5.2.0.0	20.14.57	更新
260	HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp040814.exe	HP Ethernet 1Gb 4-port 331T Adapter	5.2.0.0	20.14.57	更新
261	HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp040814.exe	HP Ethernet 1Gb 4-port 331i Adapter (22BE)	5.2.0.0	20.14.57	更新
262	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.19.11-1.1.x86_64.rpm	HPE Ethernet 1Gb 4-port 369i Adapter	1.19.11	1.2529.0	更新
263	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.19.11-1.1.x86_64.rpm	HP Ethernet 1Gb 2-port 361T Adapter	1.19.11	1.2529.0	更新
264	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.19.11-1.1.x86_64.rpm	HP Ethernet 1Gb 4-port 366FLR Adapter	1.19.11	1.2529.0	更新
265	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.19.11-1.1.x86_64.rpm	HP Ethernet 1Gb 4-port 366T Adapter	1.19.11	1.2529.0	更新
266	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.19.11-1.1.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	1.19.11	10.51.5	更新
267	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.19.11-1.1.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	1.19.11	10.51.3	更新
268	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.19.11-1.1.x86_64.rpm	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	1.19.11	10.51.5	更新
269	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.19.11-1.1.x86_64.rpm	HPE Ethernet 10Gb 2-port 562T Adapter	1.19.11	10.51.3	更新
270	HPE Intel Online Firmware Upgrade Utility for VMware	CP040151.zip	HPE Ethernet 1Gb 4-port 369i Adapter	3.12.12	1.2529.0	更新
271	HPE Intel Online Firmware Upgrade Utility for VMware	CP040151.zip	HP Ethernet 1Gb 2-port 361T Adapter	3.12.12	1.2529.0	更新
272	HPE Intel Online Firmware Upgrade Utility for VMware	CP040151.zip	HP Ethernet 1Gb 4-port 366FLR Adapter	3.12.12	1.2529.0	更新
273	HPE Intel Online Firmware Upgrade Utility for VMware	CP040151.zip	HP Ethernet 1Gb 4-port 366T Adapter	3.12.12	1.2529.0	更新
274	HPE Intel Online Firmware Upgrade Utility for VMware	CP040151.zip	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	3.12.12	10.51.5	更新
275	HPE Intel Online Firmware Upgrade Utility for VMware	CP040151.zip	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	3.12.12	10.51.3	更新
276	HPE Intel Online Firmware Upgrade Utility for VMware	CP040151.zip	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	3.12.12	10.51.5	更新
277	HPE Intel Online Firmware Upgrade Utility for VMware	CP040151.zip	HPE Ethernet 10Gb 2-port 562T Adapter	3.12.12	10.51.3	更新
278	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp040152.exe	HPE Ethernet 1Gb 4-port 369i Adapter	5.2.0.0	1.2529.0	更新

279	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp040152.exe	HP Ethernet 1Gb 2-port 361T Adapter	5.2.0.0	1.2529.0	更新
280	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp040152.exe	HP Ethernet 1Gb 4-port 366FLR Adapter	5.2.0.0	1.2529.0	更新
281	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp040152.exe	HP Ethernet 1Gb 4-port 366T Adapter	5.2.0.0	1.2529.0	更新
282	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp040152.exe	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	5.2.0.0	10.51.5	更新
283	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp040152.exe	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	5.2.0.0	10.51.3	更新
284	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp040152.exe	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	5.2.0.0	10.51.5	更新
285	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp040152.exe	HPE Ethernet 10Gb 2-port 562T Adapter	5.2.0.0	10.51.3	更新
286	HPE QLogic FastLinQ Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-qlogic-flq-1.8.12-1.1.x86_64.rpm	HPE Ethernet 10Gb 2-port 521T Adapter	1.8.12	8.50.22	更新
287	HPE QLogic FastLinQ Online Firmware Upgrade Utility for VMware	CP039777.zip	HPE Ethernet 10Gb 2-port 521T Adapter	4.11.9	8.50.22	更新
288	HPE QLogic FastLinQ Online Firmware Upgrade Utility for Windows Server x64 Editions	cp039779.exe	HPE Ethernet 10Gb 2-port 521T Adapter	5.2.0.0	8.50.22	更新
289	HPE QLogic NX2 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-qlogic-nx2-2.26.7-1.1.x86_64.rpm	HP Ethernet 10Gb 2-port 530SFP+ Adapter	2.26.7	7.18.26	更新
290	HPE QLogic NX2 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-qlogic-nx2-2.26.7-1.1.x86_64.rpm	HP Ethernet 10Gb 2-port 530T Adapter	2.26.7	7.18.26	更新
291	HPE QLogic NX2 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-qlogic-nx2-2.26.7-1.1.x86_64.rpm	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	2.26.7	7.18.26	更新
292	HPE QLogic NX2 Online Firmware Upgrade Utility for VMware	CP039778.zip	HP Ethernet 10Gb 2-port 530SFP+ Adapter	1.26.4	7.18.26	更新
293	HPE QLogic NX2 Online Firmware Upgrade Utility for VMware	CP039778.zip	HP Ethernet 10Gb 2-port 530T Adapter	1.26.4	7.18.26	更新
294	HPE QLogic NX2 Online Firmware Upgrade Utility for VMware	CP039778.zip	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	1.26.4	7.18.26	更新
295	HPE QLogic NX2 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp039780.exe	HP Ethernet 10Gb 2-port 530SFP+ Adapter	5.2.0.0	7.18.26	更新
296	HPE QLogic NX2 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp039780.exe	HP Ethernet 10Gb 2-port 530T Adapter	5.2.0.0	7.18.26	更新
297	HPE QLogic NX2 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp039780.exe	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	5.2.0.0	7.18.26	更新
298	Online Firmware Upgrade Utility (ESXi 6.5) for HPE Mellanox Ethernet only adapters	CP040048.zip	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	1.0.6	14.26.1040	更新
299	Online Firmware Upgrade Utility (ESXi 6.5) for HPE Mellanox Ethernet only adapters	CP040048.zip	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	1.0.6	14.26.1040	更新

300	Online Firmware Upgrade Utility (ESXi 6.5) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX4 and ConnectX5 devices on VMware ESXi 6.5	CP039801.zip	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	1.0.5	16.26.1040	更新
301	Online Firmware Upgrade Utility (ESXi 6.7) for HPE Mellanox Ethernet only adapters	CP040049.zip	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	1.0.2	14.26.1040	更新
302	Online Firmware Upgrade Utility (ESXi 6.7) for HPE Mellanox Ethernet only adapters	CP040049.zip	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	1.0.2	14.26.1040	更新
303	Online Firmware Upgrade Utility (ESXi 6.7) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX4 and ConnectX5 devices on VMware ESXi 6.7	CP039802.zip	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	1.0.1	16.26.1040	更新
304	Online Firmware Upgrade Utility (Linux x86_64) for HPE Mellanox Ethernet only adapters	firmware-nic-mellanox-ethernet-only-1.0.11-1.1.x86_64.rpm	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	1.0.11	14.26.1040	更新
305	Online Firmware Upgrade Utility (Linux x86_64) for HPE Mellanox Ethernet only adapters	firmware-nic-mellanox-ethernet-only-1.0.11-1.1.x86_64.rpm	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	1.0.11	14.26.1040	更新
306	Online Firmware Upgrade Utility (Linux x86_64) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX4 and ConnectX5 devices on Linux x86_64 platform	firmware-hca-mellanox-vpi-connectx4-1.0.7-1.1.x86_64.rpm	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	1.0.7	16.26.1040	更新
307	Online Firmware Upgrade Utility (Windows x64) for HPE Mellanox Ethernet only adapters	cp040050.exe	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	1.0.0.11	14.26.1040	更新
308	Online Firmware Upgrade Utility (Windows x64) for HPE Mellanox Ethernet only adapters	cp040050.exe	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	1.0.0.11	14.26.1040	更新
309	Online Firmware Upgrade Utility (Windows x64) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX4 and ConnectX5 devices on Windows x86_64 platform	cp039803.exe	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	1.0.0.6	16.26.1040	更新

### 6.2.13 Firmware - PCIe NVMe Storage Disk

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
310	Online NVMe SDD Flash Component for VMware ESXi - MT001600KWHAC, MT003200KWHAD and MT006400KWHAE Drives	CP040212.zip	MT001600KWHAC	HPS1	HPS1	更新
311	Online NVMe SDD Flash Component for VMware ESXi - MT001600KWHAC, MT003200KWHAD and MT006400KWHAE Drives	CP040212.zip	MT003200KWHAD	HPS1	HPS1	更新

312	Online NVMe SDD Flash Component for VMware ESXi - MT001600KWHAC, MT003200KWHAD and MT006400KWHAE Drives	CP040212.zip	MT006400KWHAE	HPS1	HPS1	更新
313	Online NVMe SSD Flash Component for Linux (x64) - ET000750KWJTF, EO000750KWTXC and EO000375KWJUC Drives	firmware-hdd-c4355d15c4-HPK2-4.1.x86_64.rpm	ET000750KWJTF	HPK2 (D)	HPK2	更新
314	Online NVMe SSD Flash Component for Linux (x64) - ET000750KWJTF, EO000750KWTXC and EO000375KWJUC Drives	firmware-hdd-c4355d15c4-HPK2-4.1.x86_64.rpm	EO000375KWJUC	HPK2 (D)	HPK2	更新
315	Online NVMe SSD Flash Component for Linux (x64) - ET000750KWJTF, EO000750KWTXC and EO000375KWJUC Drives	firmware-hdd-c4355d15c4-HPK2-4.1.x86_64.rpm	EO000750KWTXC	HPK2 (D)	HPK2	更新
316	Online NVMe SSD Flash Component for Linux (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB and LT2000KEXVC Drives	firmware-hdd-d64642c780-HPK4-4.1.x86_64.rpm	LO0400KEFJQ	HPK4 (D)	HPK4	更新
317	Online NVMe SSD Flash Component for Linux (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB and LT2000KEXVC Drives	firmware-hdd-d64642c780-HPK4-4.1.x86_64.rpm	LO0800KEFJR	HPK4 (D)	HPK4	更新
318	Online NVMe SSD Flash Component for Linux (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB and LT2000KEXVC Drives	firmware-hdd-d64642c780-HPK4-4.1.x86_64.rpm	LO1600KEFJT	HPK4 (D)	HPK4	更新
319	Online NVMe SSD Flash Component for Linux (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB and LT2000KEXVC Drives	firmware-hdd-d64642c780-HPK4-4.1.x86_64.rpm	LO2000KEFJU	HPK4 (D)	HPK4	更新
320	Online NVMe SSD Flash Component for Linux (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB and LT2000KEXVC Drives	firmware-hdd-d64642c780-HPK4-4.1.x86_64.rpm	LT0800KEXVA	HPK4 (D)	HPK4	更新
321	Online NVMe SSD Flash Component for Linux (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB and LT2000KEXVC Drives	firmware-hdd-d64642c780-HPK4-4.1.x86_64.rpm	LT1600KEXVB	HPK4 (D)	HPK4	更新
322	Online NVMe SSD Flash Component for Linux (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB and LT2000KEXVC Drives	firmware-hdd-d64642c780-HPK4-4.1.x86_64.rpm	LT2000KEXVC	HPK4 (D)	HPK4	更新

323	Online NVMe SSD Flash Component for Linux (x64) - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN and VK001920KWDUH Drives	firmware-hdd-b45e49679c-HPK4-3.1.x86_64.rpm	VK001920KWDUH	HPK4 (C)	HPK4	更新
324	Online NVMe SSD Flash Component for Linux (x64) - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN and VK001920KWDUH Drives	firmware-hdd-b45e49679c-HPK4-3.1.x86_64.rpm	MK001600KWDUN	HPK4 (C)	HPK4	更新
325	Online NVMe SSD Flash Component for Linux (x64) - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN and VK001920KWDUH Drives	firmware-hdd-b45e49679c-HPK4-3.1.x86_64.rpm	VK000960KWDUF	HPK4 (C)	HPK4	更新
326	Online NVMe SSD Flash Component for Linux (x64) - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN and VK001920KWDUH Drives	firmware-hdd-b45e49679c-HPK4-3.1.x86_64.rpm	MK000800KWDUL	HPK4 (C)	HPK4	更新
327	Online NVMe SSD Flash Component for Linux (x64) - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN and VK001920KWDUH Drives	firmware-hdd-b45e49679c-HPK4-3.1.x86_64.rpm	VK000480KWDUE	HPK4 (C)	HPK4	更新
328	Online NVMe SSD Flash Component for Linux (x64) - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN and VK001920KWDUH Drives	firmware-hdd-b45e49679c-HPK4-3.1.x86_64.rpm	MK000400KWDUK	HPK4 (C)	HPK4	更新
329	Online NVMe SSD Flash Component for Linux (x64) - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU and MT1600KEXUV Drives	firmware-hdd-2a5b65f157-HPK4-4.1.x86_64.rpm	MO0400KEFHN	HPK4 (D)	HPK4	更新
330	Online NVMe SSD Flash Component for Linux (x64) - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU and MT1600KEXUV Drives	firmware-hdd-2a5b65f157-HPK4-4.1.x86_64.rpm	MO0800KEFHP	HPK4 (D)	HPK4	更新

331	Online NVMe SSD Flash Component for Linux (x64) - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU and MT1600KEXUV Drives	firmware-hdd-2a5b65f157-HPK4-4.1.x86_64.rpm	MO1600KEFHQ	HPK4 (D)	HPK4	更新
332	Online NVMe SSD Flash Component for Linux (x64) - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU and MT1600KEXUV Drives	firmware-hdd-2a5b65f157-HPK4-4.1.x86_64.rpm	MO2000KEFHR	HPK4 (D)	HPK4	更新
333	Online NVMe SSD Flash Component for Linux (x64) - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU and MT1600KEXUV Drives	firmware-hdd-2a5b65f157-HPK4-4.1.x86_64.rpm	MT0800KEXUU	HPK4 (D)	HPK4	更新
334	Online NVMe SSD Flash Component for Linux (x64) - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU and MT1600KEXUV Drives	firmware-hdd-2a5b65f157-HPK4-4.1.x86_64.rpm	MT1600KEXUV	HPK4 (D)	HPK4	更新
335	Online NVMe SSD Flash Component for Linux (x64) - MT001600KWHAC, MT003200KWHAD and MT006400KWHAE Drives	firmware-hdd-8e8ddc5265-HPS1-3.1.x86_64.rpm	MT001600KWHAC	HPS1 (C)	HPS1	更新
336	Online NVMe SSD Flash Component for Linux (x64) - MT001600KWHAC, MT003200KWHAD and MT006400KWHAE Drives	firmware-hdd-8e8ddc5265-HPS1-3.1.x86_64.rpm	MT003200KWHAD	HPS1 (C)	HPS1	更新
337	Online NVMe SSD Flash Component for Linux (x64) - MT001600KWHAC, MT003200KWHAD and MT006400KWHAE Drives	firmware-hdd-8e8ddc5265-HPS1-3.1.x86_64.rpm	MT006400KWHAE	HPS1 (C)	HPS1	更新
338	Online NVMe SSD Flash Component for Linux (x64) - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	firmware-hdd-1656c1b14a-HPK1-4.1.x86_64.rpm	VO001000KWJSE	HPK1 (D)	HPK1	更新
339	Online NVMe SSD Flash Component for Linux (x64) - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	firmware-hdd-1656c1b14a-HPK1-4.1.x86_64.rpm	VO002000KWJSF	HPK1 (D)	HPK1	更新

340	Online NVMe SSD Flash Component for Linux (x64) - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	firmware-hdd-1656c1b14a-HPK1-4.1.x86_64.rpm	VO004000KWJSH	HPK1 (D)	HPK1	更新
341	Online NVMe SSD Flash Component for Linux (x64) - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	firmware-hdd-1656c1b14a-HPK1-4.1.x86_64.rpm	VT004000KWJSU	HPK1 (D)	HPK1	更新
342	Online NVMe SSD Flash Component for Linux (x64) - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	firmware-hdd-1656c1b14a-HPK1-4.1.x86_64.rpm	MO001600KWJSN	HPK1 (D)	HPK1	更新
343	Online NVMe SSD Flash Component for Linux (x64) - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	firmware-hdd-1656c1b14a-HPK1-4.1.x86_64.rpm	MO003200KWJSQ	HPK1 (D)	HPK1	更新
344	Online NVMe SSD Flash Component for Linux (x64) - VO0400KEFJB, VO1200KEFJC and VO2000KEFJD Drives	firmware-hdd-9a826ccd8a-HPK4-4.1.x86_64.rpm	VO0400KEFJB	HPK4 (D)	HPK4	更新
345	Online NVMe SSD Flash Component for Linux (x64) - VO0400KEFJB, VO1200KEFJC and VO2000KEFJD Drives	firmware-hdd-9a826ccd8a-HPK4-4.1.x86_64.rpm	VO1200KEFJC	HPK4 (D)	HPK4	更新
346	Online NVMe SSD Flash Component for Linux (x64) - VO0400KEFJB, VO1200KEFJC and VO2000KEFJD Drives	firmware-hdd-9a826ccd8a-HPK4-4.1.x86_64.rpm	VO2000KEFJD	HPK4 (D)	HPK4	更新
347	Online NVMe SSD Flash Component for Linux (x64) - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR, and MS000800KWDUT Drives	firmware-hdd-95a2e5abcb-HPK4-3.1.x86_64.rpm	VS000480KWDUP	HPK4 (C)	HPK4	更新
348	Online NVMe SSD Flash Component for Linux (x64) - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR, and MS000800KWDUT Drives	firmware-hdd-95a2e5abcb-HPK4-3.1.x86_64.rpm	VS000960KWDUQ	HPK4 (C)	HPK4	更新
349	Online NVMe SSD Flash Component for Linux (x64) - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR, and MS000800KWDUT Drives	firmware-hdd-95a2e5abcb-HPK4-3.1.x86_64.rpm	MS000400KWDUR	HPK4 (C)	HPK4	更新



350	Online NVMe SSD Flash Component for Linux (x64) - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR, and MS000800KWDUT Drives	firmware-hdd-95a2e5a bcb-HPK4-3.1.x86_64.rpm	MS000800KWDUT	HPK4 (C)	HPK4	更新
351	Online NVMe SSD Flash Component for VMware ESXi - ET000750KWJTF, EO000750KWTXC and EO000375KWJUC Drives	CP040193.zip	ET000750KWJTF	HPK2	HPK2	更新
352	Online NVMe SSD Flash Component for VMware ESXi - ET000750KWJTF, EO000750KWTXC and EO000375KWJUC Drives	CP040193.zip	EO000375KWJUC	HPK2	HPK2	更新
353	Online NVMe SSD Flash Component for VMware ESXi - ET000750KWJTF, EO000750KWTXC and EO000375KWJUC Drives	CP040193.zip	EO000750KWTXC	HPK2	HPK2	更新
354	Online NVMe SSD Flash Component for VMware ESXi - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives	CP036934.zip	LO0400KEFJQ	HPK4	HPK4	更新
355	Online NVMe SSD Flash Component for VMware ESXi - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives	CP036934.zip	LO0800KEFJR	HPK4	HPK4	更新
356	Online NVMe SSD Flash Component for VMware ESXi - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives	CP036934.zip	LO1600KEFJT	HPK4	HPK4	更新
357	Online NVMe SSD Flash Component for VMware ESXi - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives	CP036934.zip	LO2000KEFJU	HPK4	HPK4	更新
358	Online NVMe SSD Flash Component for VMware ESXi - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives	CP036934.zip	LT0800KEXVA	HPK4	HPK4	更新
359	Online NVMe SSD Flash Component for VMware ESXi - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives	CP036934.zip	LT1600KEXVB	HPK4	HPK4	更新
360	Online NVMe SSD Flash Component for VMware ESXi - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives	CP036934.zip	LT2000KEXVC	HPK4	HPK4	更新

361	Online NVMe SSD Flash Component for VMware ESXi - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN, and VK001920KWDUH Drives	CP040919.zip	MK000400KWDUK	HPK4	HPK4	更新
362	Online NVMe SSD Flash Component for VMware ESXi - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN, and VK001920KWDUH Drives	CP040919.zip	VK000480KWDUE	HPK4	HPK4	更新
363	Online NVMe SSD Flash Component for VMware ESXi - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN, and VK001920KWDUH Drives	CP040919.zip	MK000800KWDUL	HPK4	HPK4	更新
364	Online NVMe SSD Flash Component for VMware ESXi - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN, and VK001920KWDUH Drives	CP040919.zip	VK000960KWDUF	HPK4	HPK4	更新
365	Online NVMe SSD Flash Component for VMware ESXi - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN, and VK001920KWDUH Drives	CP040919.zip	MK001600KWDUN	HPK4	HPK4	更新
366	Online NVMe SSD Flash Component for VMware ESXi - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN, and VK001920KWDUH Drives	CP040919.zip	VK001920KWDUH	HPK4	HPK4	更新
367	Online NVMe SSD Flash Component for VMware ESXi - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU, and MT1600KEXUV Drives	CP040195.zip	MO0400KEFHN	HPK4	HPK4	更新
368	Online NVMe SSD Flash Component for VMware ESXi - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU, and MT1600KEXUV Drives	CP040195.zip	MO0800KEFHP	HPK4	HPK4	更新

369	Online NVMe SSD Flash Component for VMware ESXi - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU, and MT1600KEXUV Drives	CP040195.zip	MO1600KEFHQ	HPK4	HPK4	更新
370	Online NVMe SSD Flash Component for VMware ESXi - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU, and MT1600KEXUV Drives	CP040195.zip	MO2000KEFHR	HPK4	HPK4	更新
371	Online NVMe SSD Flash Component for VMware ESXi - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU, and MT1600KEXUV Drives	CP040195.zip	MT0800KEXUU	HPK4	HPK4	更新
372	Online NVMe SSD Flash Component for VMware ESXi - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU, and MT1600KEXUV Drives	CP040195.zip	MT1600KEXUV	HPK4	HPK4	更新
373	Online NVMe SSD Flash Component for VMware ESXi - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	CP040192.zip	VO001000KWJSE	HPK1	HPK1	更新
374	Online NVMe SSD Flash Component for VMware ESXi - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	CP040192.zip	VO002000KWJSF	HPK1	HPK1	更新
375	Online NVMe SSD Flash Component for VMware ESXi - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	CP040192.zip	VO004000KWJSH	HPK1	HPK1	更新
376	Online NVMe SSD Flash Component for VMware ESXi - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	CP040192.zip	VT004000KWJSU	HPK1	HPK1	更新

377	Online NVMe SSD Flash Component for VMware ESXi - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	CP040192.zip	MO001600KWJSN	HPK1	HPK1	更新
378	Online NVMe SSD Flash Component for VMware ESXi - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	CP040192.zip	MO003200KWJSQ	HPK1	HPK1	更新
379	Online NVMe SSD Flash Component for VMware ESXi - VO0400KEFJB, VO1200KEFJC, and VO2000KEFJD Drives	CP040194.zip	VO0400KEFJB	HPK4	HPK4	更新
380	Online NVMe SSD Flash Component for VMware ESXi - VO0400KEFJB, VO1200KEFJC, and VO2000KEFJD Drives	CP040194.zip	VO1200KEFJC	HPK4	HPK4	更新
381	Online NVMe SSD Flash Component for VMware ESXi - VO0400KEFJB, VO1200KEFJC, and VO2000KEFJD Drives	CP040194.zip	VO2000KEFJD	HPK4	HPK4	更新
382	Online NVMe SSD Flash Component for VMware ESXi - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR, and MS000800KWDUT Drives	CP040921.zip	VS000480KWDUP	HPK4	HPK4	更新
383	Online NVMe SSD Flash Component for VMware ESXi - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR, and MS000800KWDUT Drives	CP040921.zip	VS000960KWDUQ	HPK4	HPK4	更新
384	Online NVMe SSD Flash Component for VMware ESXi - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR, and MS000800KWDUT Drives	CP040921.zip	MS000400KWDUR	HPK4	HPK4	更新
385	Online NVMe SSD Flash Component for VMware ESXi - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR, and MS000800KWDUT Drives	CP040921.zip	MS000800KWDUT	HPK4	HPK4	更新
386	Online NVMe SSD Flash Component for Windows (x64) - ET000750KWJTF, EO000750KWTXC and EO000375KWJUC Drives	cp039036.exe	ET000750KWJTF	HPK2	HPK2	更新
387	Online NVMe SSD Flash Component for Windows (x64) - ET000750KWJTF, EO000750KWTXC and EO000375KWJUC Drives	cp039036.exe	EO000375KWJUC	HPK2	HPK2	更新

388	Online NVMe SSD Flash Component for Windows (x64) - ET000750KWJTF, EO000750KWTXC and EO000375KWJUC Drives	cp039036.exe	EO000750KWTXC	HPK2	HPK2	更新
389	Online NVMe SSD Flash Component for Windows (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives	cp040243.exe	LO0400KEFJQ	HPK4	HPK4	更新
390	Online NVMe SSD Flash Component for Windows (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives	cp040243.exe	LO0800KEFJR	HPK4	HPK4	更新
391	Online NVMe SSD Flash Component for Windows (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives	cp040243.exe	LO1600KEFJT	HPK4	HPK4	更新
392	Online NVMe SSD Flash Component for Windows (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives	cp040243.exe	LO2000KEFJU	HPK4	HPK4	更新
393	Online NVMe SSD Flash Component for Windows (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives	cp040243.exe	LT0800KEXVA	HPK4	HPK4	更新
394	Online NVMe SSD Flash Component for Windows (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives	cp040243.exe	LT1600KEXVB	HPK4	HPK4	更新
395	Online NVMe SSD Flash Component for Windows (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives	cp040243.exe	LT2000KEXVC	HPK4	HPK4	更新
396	Online NVMe SSD Flash Component for Windows (x64) - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN, and VK001920KWDUH Drives	cp038857.exe	VK001920KWDUH	HPK4	HPK4	更新

397	Online NVMe SSD Flash Component for Windows (x64) - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN, and VK001920KWDUH Drives	cp038857.exe	MK001600KWDUN	HPK4	HPK4	更新
398	Online NVMe SSD Flash Component for Windows (x64) - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN, and VK001920KWDUH Drives	cp038857.exe	VK000960KWDUF	HPK4	HPK4	更新
399	Online NVMe SSD Flash Component for Windows (x64) - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN, and VK001920KWDUH Drives	cp038857.exe	MK000800KWDUL	HPK4	HPK4	更新
400	Online NVMe SSD Flash Component for Windows (x64) - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN, and VK001920KWDUH Drives	cp038857.exe	VK000480KWDUE	HPK4	HPK4	更新
401	Online NVMe SSD Flash Component for Windows (x64) - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN, and VK001920KWDUH Drives	cp038857.exe	MK000400KWDUK	HPK4	HPK4	更新
402	Online NVMe SSD Flash Component for Windows (x64) - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU, and MT1600KEXUV Drives	cp038873.exe	MO0400KEFHN	HPK4	HPK4	更新
403	Online NVMe SSD Flash Component for Windows (x64) - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU, and MT1600KEXUV Drives	cp038873.exe	MO0800KEFHP	HPK4	HPK4	更新
404	Online NVMe SSD Flash Component for Windows (x64) - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU, and MT1600KEXUV Drives	cp038873.exe	MO1600KEFHQ	HPK4	HPK4	更新

405	Online NVMe SSD Flash Component for Windows (x64) - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU, and MT1600KEXUV Drives	cp038873.exe	MO2000KEFHR	HPK4	HPK4	更新
406	Online NVMe SSD Flash Component for Windows (x64) - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU, and MT1600KEXUV Drives	cp038873.exe	MT0800KEXUU	HPK4	HPK4	更新
407	Online NVMe SSD Flash Component for Windows (x64) - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU, and MT1600KEXUV Drives	cp038873.exe	MT1600KEXUV	HPK4	HPK4	更新
408	Online NVMe SSD Flash Component for Windows (x64) - MT001600KWHAC, MT003200KWHAD and MT006400KWHAE Drives	cp039546.exe	MT001600KWHAC	HPS1	HPS1	更新
409	Online NVMe SSD Flash Component for Windows (x64) - MT001600KWHAC, MT003200KWHAD and MT006400KWHAE Drives	cp039546.exe	MT003200KWHAD	HPS1	HPS1	更新
410	Online NVMe SSD Flash Component for Windows (x64) - MT001600KWHAC, MT003200KWHAD and MT006400KWHAE Drives	cp039546.exe	MT006400KWHAE	HPS1	HPS1	更新
411	Online NVMe SSD Flash Component for Windows (x64) - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	cp038859.exe	VO001000KWJSE	HPK1	HPK1	更新
412	Online NVMe SSD Flash Component for Windows (x64) - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	cp038859.exe	VO002000KWJSF	HPK1	HPK1	更新
413	Online NVMe SSD Flash Component for Windows (x64) - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	cp038859.exe	VO004000KWJSH	HPK1	HPK1	更新

414	Online NVMe SSD Flash Component for Windows (x64) - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	cp038859.exe	VT004000KWJSU	HPK1	HPK1	更新
415	Online NVMe SSD Flash Component for Windows (x64) - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	cp038859.exe	MO001600KWJSN	HPK1	HPK1	更新
416	Online NVMe SSD Flash Component for Windows (x64) - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	cp038859.exe	MO003200KWJSQ	HPK1	HPK1	更新
417	Online NVMe SSD Flash Component for Windows (x64) - VO0400KEFJB, VO1200KEFJC, and VO2000KEFJD Drives	cp040244.exe	VO0400KEFJB	HPK4	HPK4	更新
418	Online NVMe SSD Flash Component for Windows (x64) - VO0400KEFJB, VO1200KEFJC, and VO2000KEFJD Drives	cp040244.exe	VO1200KEFJC	HPK4	HPK4	更新
419	Online NVMe SSD Flash Component for Windows (x64) - VO0400KEFJB, VO1200KEFJC, and VO2000KEFJD Drives	cp040244.exe	VO2000KEFJD	HPK4	HPK4	更新
420	Online NVMe SSD Flash Component for Windows (x64) - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR, and MS000800KWDUT Drives	cp040923.exe	VS000480KWDUP	HPK4	HPK4	更新
421	Online NVMe SSD Flash Component for Windows (x64) - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR, and MS000800KWDUT Drives	cp040923.exe	VS000960KWDUQ	HPK4	HPK4	更新
422	Online NVMe SSD Flash Component for Windows (x64) - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR, and MS000800KWDUT Drives	cp040923.exe	MS000400KWDUR	HPK4	HPK4	更新
423	Online NVMe SSD Flash Component for Windows (x64) - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR, and MS000800KWDUT Drives	cp040923.exe	MS000800KWDUT	HPK4	HPK4	更新



## 6.2.14 Firmware - Power Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
424	Online Flash for Windows x64 - Innovation Engine Firmware for servers using Intel Xeon Scalable 3100/3200/4100/4200/5100/5200/6100/6200/8100/8200 series Processors	cp039815.exe	Innovation Engine (IE) Firmware	0.2.1.2	0.2.1.2	
425	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-1.0.7-1.1.x86_64.rpm	Power Management Controller Firmware	1.0.7	1.0.7	更新
426	Online ROM Flash for Windows x64 - Advanced Power Capping Microcontroller Firmware for servers using Intel Xeon Scalable 3100/4100/5100/6100/8100 series Processors	cp041512.exe	Power Management Controller Firmware	1.0.7	1.0.7	更新
427	ROM Flash Firmware Package - Advanced Power Capping Microcontroller Firmware for HPE Gen10 Servers	PICGen10_1.0.7s.fwpkg	Gen10 Power Management Controller Firmware	1.0.7	1.0.7	更新

## 6.2.15 Firmware - SAS Storage Disk

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
428	Online HDD/SDD Flash Component for Linux (x64) - EG000300JWBHR Drives	firmware-hdd-2e4c61fc63-HPD4-3.1.x86_64.rpm	EG000300JWBHR	HPD4 (C)	HPD4	更新
429	Online HDD/SDD Flash Component for Linux (x64) - EG000300JWFVB Drives	firmware-hdd-c5cd837c29-HPD2-4.1.x86_64.rpm	EG000300JWFVB	HPD2 (D)	HPD2	更新
430	Online HDD/SDD Flash Component for Linux (x64) - EG000300JWSJP, EG000600JWJNH and EG001200JWJNK Drive	firmware-hdd-24fe569b72-HPD2-2.1.x86_64.rpm	EG000300JWSJP	HPD2 (B)	HPD2	更新
431	Online HDD/SDD Flash Component for Linux (x64) - EG000300JWSJP, EG000600JWJNH and EG001200JWJNK Drive	firmware-hdd-24fe569b72-HPD2-2.1.x86_64.rpm	EG000600JWJNH	HPD2 (B)	HPD2	更新
432	Online HDD/SDD Flash Component for Linux (x64) - EG000300JWSJP, EG000600JWJNH and EG001200JWJNK Drive	firmware-hdd-24fe569b72-HPD2-2.1.x86_64.rpm	EG001200JWJNK	HPD2 (B)	HPD2	更新
433	Online HDD/SDD Flash Component for Linux (x64) - EG000600JWEBH and EG000300JWEBF Drives	firmware-hdd-aa9e289524-HPD4-3.1.x86_64.rpm	EG000600JWEBH	HPD4 (C)	HPD4	更新
434	Online HDD/SDD Flash Component for Linux (x64) - EG000600JWEBH and EG000300JWEBF Drives	firmware-hdd-aa9e289524-HPD4-3.1.x86_64.rpm	EG000300JWEBF	HPD4 (C)	HPD4	更新

435	Online HDD/SDD Flash Component for Linux (x64) - EG000600JWFUV and EG001200JWFVA Drives	firmware-hdd-f0c91d2fe3-HPD3-4.1.x86_64.rpm	EG000600JWFUV	HPD3 (D)	HPD3	更新
436	Online HDD/SDD Flash Component for Linux (x64) - EG000600JWFUV and EG001200JWFVA Drives	firmware-hdd-f0c91d2fe3-HPD3-4.1.x86_64.rpm	EG001200JWFVA	HPD3 (D)	HPD3	更新
437	Online HDD/SDD Flash Component for Linux (x64) - EG000600JWJNP and EG001200JWJNQ Drives	firmware-hdd-bdfb8e99d9-HPD2-3.1.x86_64.rpm	EG000600JWJNP	HPD2 (C)	HPD2	更新
438	Online HDD/SDD Flash Component for Linux (x64) - EG000600JWJNP and EG001200JWJNQ Drives	firmware-hdd-bdfb8e99d9-HPD2-3.1.x86_64.rpm	EG001200JWJNQ	HPD2 (C)	HPD2	更新
439	Online HDD/SDD Flash Component for Linux (x64) - EG001800JWFVC Drives	firmware-hdd-693b9a2853-HPD3-4.1.x86_64.rpm	EG001800JWFVC	HPD3 (D)	HPD3	更新
440	Online HDD/SDD Flash Component for Linux (x64) - EG001800JWJNL and EG002400JWJNN Drive	firmware-hdd-852266afdf-HPD2-2.1.x86_64.rpm	EG001800JWJNL	HPD2 (B)	HPD2	更新
441	Online HDD/SDD Flash Component for Linux (x64) - EG001800JWJNL and EG002400JWJNN Drive	firmware-hdd-852266afdf-HPD2-2.1.x86_64.rpm	EG002400JWJNN	HPD2 (B)	HPD2	更新
442	Online HDD/SDD Flash Component for Linux (x64) - EG0300FCSPH, EG0450FCSPK, EG0600FCSPL, and EG0900FCSPN Drives	firmware-hdd-7c1a1734f9-HPD2-5.1.x86_64.rpm	EG0300FCSPH	HPD2 (E)	HPD2	更新
443	Online HDD/SDD Flash Component for Linux (x64) - EG0300FCSPH, EG0450FCSPK, EG0600FCSPL, and EG0900FCSPN Drives	firmware-hdd-7c1a1734f9-HPD2-5.1.x86_64.rpm	EG0450FCSPK	HPD2 (E)	HPD2	更新
444	Online HDD/SDD Flash Component for Linux (x64) - EG0300FCSPH, EG0450FCSPK, EG0600FCSPL, and EG0900FCSPN Drives	firmware-hdd-7c1a1734f9-HPD2-5.1.x86_64.rpm	EG0600FCSPL	HPD2 (E)	HPD2	更新
445	Online HDD/SDD Flash Component for Linux (x64) - EG0300FCSPH, EG0450FCSPK, EG0600FCSPL, and EG0900FCSPN Drives	firmware-hdd-7c1a1734f9-HPD2-5.1.x86_64.rpm	EG0900FCSPN	HPD2 (E)	HPD2	更新
446	Online HDD/SDD Flash Component for Linux (x64) - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB, and EG1200JEHMC Drives	firmware-hdd-31f91b8622-HPD5-6.1.x86_64.rpm	EG0300JEHLV	HPD5 (F)	HPD5	更新
447	Online HDD/SDD Flash Component for Linux (x64) - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB, and EG1200JEHMC Drives	firmware-hdd-31f91b8622-HPD5-6.1.x86_64.rpm	EG0600JEHMA	HPD5 (F)	HPD5	更新
448	Online HDD/SDD Flash Component for Linux (x64) - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB, and EG1200JEHMC Drives	firmware-hdd-31f91b8622-HPD5-6.1.x86_64.rpm	EG0900JEHMB	HPD5 (F)	HPD5	更新

449	Online HDD/SDD Flash Component for Linux (x64) - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB, and EG1200JEHMC Drives	firmware-hdd-31f91b8622-HPD5-6.1.x86_64.rpm	EG1200JEHMC	HPD5 (F)	HPD5	更新
450	Online HDD/SDD Flash Component for Linux (x64) - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB, and EG1200JEMDA Drives	firmware-hdd-ac3fda26eb-HPD6-6.1.x86_64.rpm	EG0600JEMCV	HPD6 (F)	HPD6	更新
451	Online HDD/SDD Flash Component for Linux (x64) - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB, and EG1200JEMDA Drives	firmware-hdd-ac3fda26eb-HPD6-6.1.x86_64.rpm	EG1200JEMDA	HPD6 (F)	HPD6	更新
452	Online HDD/SDD Flash Component for Linux (x64) - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB, and EG1200JEMDA Drives	firmware-hdd-ac3fda26eb-HPD6-6.1.x86_64.rpm	EG0300JFCKA	HPD6 (F)	HPD6	更新
453	Online HDD/SDD Flash Component for Linux (x64) - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB, and EG1200JEMDA Drives	firmware-hdd-ac3fda26eb-HPD6-6.1.x86_64.rpm	EG0900JFCKB	HPD6 (F)	HPD6	更新
454	Online HDD/SDD Flash Component for Linux (x64) - EG0600JETKA, EG0900JETKB, and EG1200JETKC Drives	firmware-hdd-7505dfb5ae-HPD7-3.1.x86_64.rpm	EG0600JETKA	HPD7 (C)	HPD7	更新
455	Online HDD/SDD Flash Component for Linux (x64) - EG0600JETKA, EG0900JETKB, and EG1200JETKC Drives	firmware-hdd-7505dfb5ae-HPD7-3.1.x86_64.rpm	EG0900JETKB	HPD7 (C)	HPD7	更新
456	Online HDD/SDD Flash Component for Linux (x64) - EG0600JETKA, EG0900JETKB, and EG1200JETKC Drives	firmware-hdd-7505dfb5ae-HPD7-3.1.x86_64.rpm	EG1200JETKC	HPD7 (C)	HPD7	更新
457	Online HDD/SDD Flash Component for Linux (x64) - EG1800JEHMD Drive	firmware-hdd-8a2c06af48-HPD6-6.1.x86_64.rpm	EG1800JEHMD	HPD6 (F)	HPD6	更新
458	Online HDD/SDD Flash Component for Linux (x64) - EG1800JEMDB Drives	firmware-hdd-0a38b25661-HPD5-5.1.x86_64.rpm	EG1800JEMDB	HPD5 (E)	HPD5	更新
459	Online HDD/SDD Flash Component for Linux (x64) - EG1800JFHMH Drives	firmware-hdd-7fc5497116-HPD7-4.1.x86_64.rpm	EG1800JFHMH	HPD7 (D)	HPD7	更新
460	Online HDD/SDD Flash Component for Linux (x64) - EH000300JWCPK, EH000600JWCPL, and EH000900JWCPN Drives	firmware-hdd-3d97759111-HPD5-3.1.x86_64.rpm	EH000900JWCPN	HPD5 (C)	HPD5	更新
461	Online HDD/SDD Flash Component for Linux (x64) - EH000300JWCPK, EH000600JWCPL, and EH000900JWCPN Drives	firmware-hdd-3d97759111-HPD5-3.1.x86_64.rpm	EH000600JWCPL	HPD5 (C)	HPD5	更新
462	Online HDD/SDD Flash Component for Linux (x64) - EH000300JWCPK, EH000600JWCPL, and EH000900JWCPN Drives	firmware-hdd-3d97759111-HPD5-3.1.x86_64.rpm	EH000300JWCPK	HPD5 (C)	HPD5	更新
463	Online HDD/SDD Flash Component for Linux (x64) - EH000600JWCPF and EH000900JWCPH Drives	firmware-hdd-a05f29cef3-HPD7-3.1.x86_64.rpm	EH000900JWCPH	HPD7 (C)	HPD7	更新

464	Online HDD/SDD Flash Component for Linux (x64) - EH000600JWCPCF and EH000900JWCPH Drives	firmware-hdd-a05f29cef3-HPD7-3.1.x86_64.rpm	EH000600JWCPCF	HPD7 (C)	HPD7	更新
465	Online HDD/SDD Flash Component for Linux (x64) - EH000900JWHPK and EH000600JWHPH Drives	firmware-hdd-c7df7ceedb-HPD3-3.1.x86_64.rpm	EH000900JWHPK	HPD3 (C)	HPD3	更新
466	Online HDD/SDD Flash Component for Linux (x64) - EH000900JWHPK and EH000600JWHPH Drives	firmware-hdd-c7df7ceedb-HPD3-3.1.x86_64.rpm	EH000600JWHPH	HPD3 (C)	HPD3	更新
467	Online HDD/SDD Flash Component for Linux (x64) - EH000900JWHPP, EH000600JWHPN and EH000300JWHPL Drives	firmware-hdd-8d68452816-HPD3-3.1.x86_64.rpm	EH000900JWHPP	HPD3 (C)	HPD3	更新
468	Online HDD/SDD Flash Component for Linux (x64) - EH000900JWHPP, EH000600JWHPN and EH000300JWHPL Drives	firmware-hdd-8d68452816-HPD3-3.1.x86_64.rpm	EH000600JWHPN	HPD3 (C)	HPD3	更新
469	Online HDD/SDD Flash Component for Linux (x64) - EH000900JWHPP, EH000600JWHPN and EH000300JWHPL Drives	firmware-hdd-8d68452816-HPD3-3.1.x86_64.rpm	EH000300JWHPL	HPD3 (C)	HPD3	更新
470	Online HDD/SDD Flash Component for Linux (x64) - EH0300JDXBA, EH0450JDXBB, and EH0600JDXBC Drives	firmware-hdd-1cbab97ff0-HPD5-5.1.x86_64.rpm	EH0300JDXBA	HPD5 (E)	HPD5	更新
471	Online HDD/SDD Flash Component for Linux (x64) - EH0300JDXBA, EH0450JDXBB, and EH0600JDXBC Drives	firmware-hdd-1cbab97ff0-HPD5-5.1.x86_64.rpm	EH0450JDXBB	HPD5 (E)	HPD5	更新
472	Online HDD/SDD Flash Component for Linux (x64) - EH0300JDXBA, EH0450JDXBB, and EH0600JDXBC Drives	firmware-hdd-1cbab97ff0-HPD5-5.1.x86_64.rpm	EH0600JDXBC	HPD5 (E)	HPD5	更新
473	Online HDD/SDD Flash Component for Linux (x64) - EH0300JDYTH, EH0450JDYTK, and EH0600JDYTL Drives	firmware-hdd-b9340d29be-HPD6-6.1.x86_64.rpm	EH0300JDYTH	HPD6 (F)	HPD6	更新
474	Online HDD/SDD Flash Component for Linux (x64) - EH0300JDYTH, EH0450JDYTK, and EH0600JDYTL Drives	firmware-hdd-b9340d29be-HPD6-6.1.x86_64.rpm	EH0450JDYTK	HPD6 (F)	HPD6	更新
475	Online HDD/SDD Flash Component for Linux (x64) - EH0300JDYTH, EH0450JDYTK, and EH0600JDYTL Drives	firmware-hdd-b9340d29be-HPD6-6.1.x86_64.rpm	EH0600JDYTL	HPD6 (F)	HPD6	更新
476	Online HDD/SDD Flash Component for Linux (x64) - EH0300JEDHC, EH0450JEDHD and EH0600JEDHE Drives	firmware-hdd-8c4a212ff9-HPD4-6.1.x86_64.rpm	EH0300JEDHC	HPD4 (F)	HPD4	更新
477	Online HDD/SDD Flash Component for Linux (x64) - EH0300JEDHC, EH0450JEDHD and EH0600JEDHE Drives	firmware-hdd-8c4a212ff9-HPD4-6.1.x86_64.rpm	EH0450JEDHD	HPD4 (F)	HPD4	更新
478	Online HDD/SDD Flash Component for Linux (x64) - EH0300JEDHC, EH0450JEDHD and EH0600JEDHE Drives	firmware-hdd-8c4a212ff9-HPD4-6.1.x86_64.rpm	EH0600JEDHE	HPD4 (F)	HPD4	更新
479	Online HDD/SDD Flash Component for Linux (x64) - EH0600JDYTN Drive	firmware-hdd-f3faa195ff-HPD7-5.1.x86_64.rpm	EH0600JDYTN	HPD7 (E)	HPD7	更新

480	Online HDD/SDD Flash Component for Linux (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	firmware-hdd-5dcf26fa42-HPD2-3.1.x86_64.rpm	EO000400JWDKP	HPD2 (C)	HPD2	更新
481	Online HDD/SDD Flash Component for Linux (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	firmware-hdd-5dcf26fa42-HPD2-3.1.x86_64.rpm	EO000800JWDKQ	HPD2 (C)	HPD2	更新
482	Online HDD/SDD Flash Component for Linux (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	firmware-hdd-5dcf26fa42-HPD2-3.1.x86_64.rpm	EO001600JWDKR	HPD2 (C)	HPD2	更新
483	Online HDD/SDD Flash Component for Linux (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	firmware-hdd-5dcf26fa42-HPD2-3.1.x86_64.rpm	MO000400JWDKU	HPD2 (C)	HPD2	更新
484	Online HDD/SDD Flash Component for Linux (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	firmware-hdd-5dcf26fa42-HPD2-3.1.x86_64.rpm	MO000800JWDKV	HPD2 (C)	HPD2	更新
485	Online HDD/SDD Flash Component for Linux (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	firmware-hdd-5dcf26fa42-HPD2-3.1.x86_64.rpm	MO001600JWDLA	HPD2 (C)	HPD2	更新
486	Online HDD/SDD Flash Component for Linux (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	firmware-hdd-5dcf26fa42-HPD2-3.1.x86_64.rpm	MO003200JWDLB	HPD2 (C)	HPD2	更新

487	Online HDD/SDD Flash Component for Linux (x64) - MB002000JWFVN and MB004000JWFVP Drives	firmware-hdd-d7af557f47-HPD2-3.1.x86_64.rpm	MB002000JWFVN	HPD2 (C)	HPD2	更新
488	Online HDD/SDD Flash Component for Linux (x64) - MB002000JWFVN and MB004000JWFVP Drives	firmware-hdd-d7af557f47-HPD2-3.1.x86_64.rpm	MB004000JWFVP	HPD2 (C)	HPD2	更新
489	Online HDD/SDD Flash Component for Linux (x64) - MB004000JWFVK and MB006000JWFVL Drives	firmware-hdd-f6d00bd17e-HPD2-3.1.x86_64.rpm	MB004000JWFVK	HPD2 (C)	HPD2	更新
490	Online HDD/SDD Flash Component for Linux (x64) - MB004000JWFVK and MB006000JWFVL Drives	firmware-hdd-f6d00bd17e-HPD2-3.1.x86_64.rpm	MB006000JWFVL	HPD2 (C)	HPD2	更新
491	Online HDD/SDD Flash Component for Linux (x64) - MB004000JWKGU Drive	firmware-hdd-2c27a7a9a4-HPD1-2.1.x86_64.rpm	MB004000JWKGU	HPD1 (B)	HPD1	更新
492	Online HDD/SDD Flash Component for Linux (x64) - MB006000JWKGN Drive	firmware-hdd-a886842a99-HPD1-2.1.x86_64.rpm	MB006000JWKGN	HPD1 (B)	HPD1	更新
493	Online HDD/SDD Flash Component for Linux (x64) - MB008000JWJRQ and MB006000JWJRP Drives	firmware-hdd-faf39e0ff7-HPD4-3.1.x86_64.rpm	MB008000JWJRQ	HPD4 (C)	HPD4	更新
494	Online HDD/SDD Flash Component for Linux (x64) - MB008000JWJRQ and MB006000JWJRP Drives	firmware-hdd-faf39e0ff7-HPD4-3.1.x86_64.rpm	MB006000JWJRP	HPD4 (C)	HPD4	更新
495	Online HDD/SDD Flash Component for Linux (x64) - MB008000JWRTD Drive	firmware-hdd-8b26d1ef02-HPD1-2.1.x86_64.rpm	MB008000JWRTD	HPD1 (B)	HPD1	更新
496	Online HDD/SDD Flash Component for Linux (x64) - MB010000JWAYK and MB008000JWAYH Drives	firmware-hdd-6ec35faf90-HPD5-4.1.x86_64.rpm	MB010000JWAYK	HPD5 (D)	HPD5	更新
497	Online HDD/SDD Flash Component for Linux (x64) - MB010000JWAYK and MB008000JWAYH Drives	firmware-hdd-6ec35faf90-HPD5-4.1.x86_64.rpm	MB008000JWAYH	HPD5 (D)	HPD5	更新
498	Online HDD/SDD Flash Component for Linux (x64) - MB012000JWDFD Drives	firmware-hdd-aaf1014ede-HPD2-4.1.x86_64.rpm	MB012000JWDFD	HPD2 (D)	HPD2	更新
499	Online HDD/SDD Flash Component for Linux (x64) - MB014000JWRTH, MB012000JWRTF and MB010000JWRTE Drives	firmware-hdd-10385ef3e6-HPD2-3.1.x86_64.rpm	MB014000JWRTH	HPD2 (C)	HPD2	更新
500	Online HDD/SDD Flash Component for Linux (x64) - MB014000JWRTH, MB012000JWRTF and MB010000JWRTE Drives	firmware-hdd-10385ef3e6-HPD2-3.1.x86_64.rpm	MB012000JWRTF	HPD2 (C)	HPD2	更新
501	Online HDD/SDD Flash Component for Linux (x64) - MB014000JWRTH, MB012000JWRTF and MB010000JWRTE Drives	firmware-hdd-10385ef3e6-HPD2-3.1.x86_64.rpm	MB010000JWRTE	HPD2 (C)	HPD2	更新
502	Online HDD/SDD Flash Component for Linux (x64) - MB014000JWUDB Drive	firmware-hdd-cfd7436fcc-HPD2-2.1.x86_64.rpm	MB014000JWUDB	HPD2 (B)	HPD2	更新

503	Online HDD/SDD Flash Component for Linux (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives	firmware-hdd-b85516c7d2-HPD3-3.1.x86_64.rpm	MB1000JVYZL	HPD3 (C)	HPD3	更新
504	Online HDD/SDD Flash Component for Linux (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives	firmware-hdd-b85516c7d2-HPD3-3.1.x86_64.rpm	MB2000JVYZN	HPD3 (C)	HPD3	更新
505	Online HDD/SDD Flash Component for Linux (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives	firmware-hdd-b85516c7d2-HPD3-3.1.x86_64.rpm	MB3000JVYZP	HPD3 (C)	HPD3	更新
506	Online HDD/SDD Flash Component for Linux (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives	firmware-hdd-b85516c7d2-HPD3-3.1.x86_64.rpm	MB4000JVYZQ	HPD3 (C)	HPD3	更新
507	Online HDD/SDD Flash Component for Linux (x64) - MB2000JFDSL and MB4000JFDSN Drives	firmware-hdd-46fc43ab26-HPD4-5.1.x86_64.rpm	MB2000JFDSL	HPD4 (E)	HPD4	更新
508	Online HDD/SDD Flash Component for Linux (x64) - MB2000JFDSL and MB4000JFDSN Drives	firmware-hdd-46fc43ab26-HPD4-5.1.x86_64.rpm	MB4000JFDSN	HPD4 (E)	HPD4	更新
509	Online HDD/SDD Flash Component for Linux (x64) - MB2000JFEML and MB4000JFEMN Drives	firmware-hdd-624b75c7e2-HPD6-5.1.x86_64.rpm	MB2000JFEML	HPD6 (E)	HPD6	更新
510	Online HDD/SDD Flash Component for Linux (x64) - MB2000JFEML and MB4000JFEMN Drives	firmware-hdd-624b75c7e2-HPD6-5.1.x86_64.rpm	MB4000JFEMN	HPD6 (E)	HPD6	更新
511	Online HDD/SDD Flash Component for Linux (x64) - MB2000JFEPA and MB4000JFEPB Drives	firmware-hdd-326de7c0f2-HPD5-5.1.x86_64.rpm	MB2000JFEPA	HPD5 (E)	HPD5	更新
512	Online HDD/SDD Flash Component for Linux (x64) - MB2000JFEPA and MB4000JFEPB Drives	firmware-hdd-326de7c0f2-HPD5-5.1.x86_64.rpm	MB4000JFEPB	HPD5 (E)	HPD5	更新
513	Online HDD/SDD Flash Component for Linux (x64) - MB4000JEFNC and MB6000JEFND Drives	firmware-hdd-af802bb412-HPD9-5.1.x86_64.rpm	MB4000JEFNC	HPD9 (E)	HPD9	更新
514	Online HDD/SDD Flash Component for Linux (x64) - MB4000JEFNC and MB6000JEFND Drives	firmware-hdd-af802bb412-HPD9-5.1.x86_64.rpm	MB6000JEFND	HPD9 (E)	HPD9	更新
515	Online HDD/SDD Flash Component for Linux (x64) - MB4000JEQNL and MB6000JEQNN Drives	firmware-hdd-2cfaac41db-HPDB-5.1.x86_64.rpm	MB4000JEQNL	HPDB (E)	HPDB	更新
516	Online HDD/SDD Flash Component for Linux (x64) - MB4000JEQNL and MB6000JEQNN Drives	firmware-hdd-2cfaac41db-HPDB-5.1.x86_64.rpm	MB6000JEQNN	HPDB (E)	HPDB	更新
517	Online HDD/SDD Flash Component for Linux (x64) - MB4000JEXYA and MB6000JEXYB Drives	firmware-hdd-0f923833e9-HPD9-3.1.x86_64.rpm	MB4000JEXYA	HPD9 (C)	HPD9	更新

518	Online HDD/SDD Flash Component for Linux (x64) - MB4000JEXYA and MB6000JEXYB Drives	firmware-hdd-0f923833e9-HPD9-3.1.x86_64.rpm	MB6000JEXYB	HPD9 (C)	HPD9	更新
519	Online HDD/SDD Flash Component for Linux (x64) - MB6000JEQUV and MB8000JEQVA Drives	firmware-hdd-df22f7effd-HPDB-5.1.x86_64.rpm	MB6000JEQUV	HPDB (E)	HPDB	更新
520	Online HDD/SDD Flash Component for Linux (x64) - MB6000JEQUV and MB8000JEQVA Drives	firmware-hdd-df22f7effd-HPDB-5.1.x86_64.rpm	MB8000JEQVA	HPDB (E)	HPDB	更新
521	Online HDD/SDD Flash Component for Linux (x64) - MB6000JVYYV Drives	firmware-hdd-0595c2a887-HPD2-5.1.x86_64.rpm	MB6000JVYYV	HPD2 (E)	HPD2	更新
522	Online HDD/SDD Flash Component for Linux (x64) - MB6000JVYZD and MB4000JVYZC Drives	firmware-hdd-e800e8d3b9-HPD4-3.1.x86_64.rpm	MB6000JVYZD	HPD4 (C)	HPD4	更新
523	Online HDD/SDD Flash Component for Linux (x64) - MB6000JVYZD and MB4000JVYZC Drives	firmware-hdd-e800e8d3b9-HPD4-3.1.x86_64.rpm	MB4000JVYZC	HPD4 (C)	HPD4	更新
524	Online HDD/SDD Flash Component for Linux (x64) - MB8000JFECQ Drives	firmware-hdd-252770cdda-HPD7-4.1.x86_64.rpm	MB8000JFECQ	HPD7 (D)	HPD7	更新
525	Online HDD/SDD Flash Component for Linux (x64) - MM1000JEFRB and MM2000JEFRC Drives	firmware-hdd-b04257b77b-HPD8-4.1.x86_64.rpm	MM1000JEFRB	HPD8 (D)	HPD8	更新
526	Online HDD/SDD Flash Component for Linux (x64) - MM1000JEFRB and MM2000JEFRC Drives	firmware-hdd-b04257b77b-HPD8-4.1.x86_64.rpm	MM2000JEFRC	HPD8 (D)	HPD8	更新
527	Online HDD/SDD Flash Component for Linux (x64) - MM1000JFJTH Drives	firmware-hdd-fa46c607d6-HPD3-4.1.x86_64.rpm	MM1000JFJTH	HPD3 (D)	HPD3	更新
528	Online HDD/SDD Flash Component for Linux (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVW Drives	firmware-hdd-b8a60f9a-HPD5-2.1.x86_64.rpm	MO000400JWFVN	HPD5 (B)	HPD5	更新
529	Online HDD/SDD Flash Component for Linux (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVW Drives	firmware-hdd-b8a60f9a-HPD5-2.1.x86_64.rpm	MO000800JWFVP	HPD5 (B)	HPD5	更新
530	Online HDD/SDD Flash Component for Linux (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVW Drives	firmware-hdd-b8a60f9a-HPD5-2.1.x86_64.rpm	MO001600JWFVQ	HPD5 (B)	HPD5	更新



531	Online HDD/SDD Flash Component for Linux (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVV Drives	firmware-hdd-b8a60f9a-HPD5-2.1.x86_64.rpm	MO003200JWFVR	HPD5 (B)	HPD5	更新
532	Online HDD/SDD Flash Component for Linux (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVV Drives	firmware-hdd-b8a60f9a-HPD5-2.1.x86_64.rpm	MO000960JWFVT	HPD5 (B)	HPD5	更新
533	Online HDD/SDD Flash Component for Linux (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVV Drives	firmware-hdd-b8a60f9a-HPD5-2.1.x86_64.rpm	MO001920JWFVU	HPD5 (B)	HPD5	更新
534	Online HDD/SDD Flash Component for Linux (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVV Drives	firmware-hdd-b8a60f9a-HPD5-2.1.x86_64.rpm	MO003840JWFVV	HPD5 (B)	HPD5	更新
535	Online HDD/SDD Flash Component for Linux (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	firmware-hdd-ef93133161-HPD1-3.1.x86_64.rpm	MO000400JWUFT	HPD1 (C)	HPD1	更新
536	Online HDD/SDD Flash Component for Linux (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	firmware-hdd-ef93133161-HPD1-3.1.x86_64.rpm	MO000800JWUFU	HPD1 (C)	HPD1	更新
537	Online HDD/SDD Flash Component for Linux (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	firmware-hdd-ef93133161-HPD1-3.1.x86_64.rpm	MO001600JWUFV	HPD1 (C)	HPD1	更新

538	Online HDD/SDD Flash Component for Linux (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	firmware-hdd-ef93133161-HPD1-3.1.x86_64.rpm	MO003200JWUG A	HPD1 (C)	HPD1	更新
539	Online HDD/SDD Flash Component for Linux (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	firmware-hdd-ef93133161-HPD1-3.1.x86_64.rpm	MO006400JWUG B	HPD1 (C)	HPD1	更新
540	Online HDD/SDD Flash Component for Linux (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	firmware-hdd-ef93133161-HPD1-3.1.x86_64.rpm	EO000400JWUGC	HPD1 (C)	HPD1	更新
541	Online HDD/SDD Flash Component for Linux (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	firmware-hdd-ef93133161-HPD1-3.1.x86_64.rpm	EO000800JWUGD	HPD1 (C)	HPD1	更新
542	Online HDD/SDD Flash Component for Linux (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	firmware-hdd-ef93133161-HPD1-3.1.x86_64.rpm	EO001600JWUGE	HPD1 (C)	HPD1	更新
543	Online HDD/SDD Flash Component for Linux (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE, and EO0800JEFPF Drives	firmware-hdd-71af849f3b-HPD3-5.1.x86_64.rpm	EO0800JEFPF	HPD3 (E)	HPD3	更新
544	Online HDD/SDD Flash Component for Linux (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE, and EO0800JEFPF Drives	firmware-hdd-71af849f3b-HPD3-5.1.x86_64.rpm	EO0400JEFPE	HPD3 (E)	HPD3	更新

545	Online HDD/SDD Flash Component for Linux (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE, and EO0800JEFPF Drives	firmware-hdd-71af849f3b-HPD3-5.1.x86_64.rpm	EO0200JEFPD	HPD3 (E)	HPD3	更新
546	Online HDD/SDD Flash Component for Linux (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE, and EO0800JEFPF Drives	firmware-hdd-71af849f3b-HPD3-5.1.x86_64.rpm	MO1600JEFPC	HPD3 (E)	HPD3	更新
547	Online HDD/SDD Flash Component for Linux (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE, and EO0800JEFPF Drives	firmware-hdd-71af849f3b-HPD3-5.1.x86_64.rpm	MO0800JEFPB	HPD3 (E)	HPD3	更新
548	Online HDD/SDD Flash Component for Linux (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE, and EO0800JEFPF Drives	firmware-hdd-71af849f3b-HPD3-5.1.x86_64.rpm	MO0400JEFPA	HPD3 (E)	HPD3	更新
549	Online HDD/SDD Flash Component for Linux (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE, and EO0800JEFPF Drives	firmware-hdd-71af849f3b-HPD3-5.1.x86_64.rpm	MO0200JEFNV	HPD3 (E)	HPD3	更新
550	Online HDD/SDD Flash Component for Linux (x64) - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK, and MO3200JFFCL Drives	firmware-hdd-edf6dcd906-HPD8-1.1.x86_64.rpm	MO0400JFFCF	HPD8	HPD8	更新
551	Online HDD/SDD Flash Component for Linux (x64) - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK, and MO3200JFFCL Drives	firmware-hdd-edf6dcd906-HPD8-1.1.x86_64.rpm	MO0800JFFCH	HPD8	HPD8	更新
552	Online HDD/SDD Flash Component for Linux (x64) - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK, and MO3200JFFCL Drives	firmware-hdd-edf6dcd906-HPD8-1.1.x86_64.rpm	MO1600JFFCK	HPD8	HPD8	更新
553	Online HDD/SDD Flash Component for Linux (x64) - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK, and MO3200JFFCL Drives	firmware-hdd-edf6dcd906-HPD8-1.1.x86_64.rpm	MO3200JFFCL	HPD8	HPD8	更新

554	Online HDD/SDD Flash Component for Linux (x64) - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	firmware-hdd-1e51a57347-HPD3-2.1.x86_64.rpm	VK000960JWSSQ	HPD3 (B)	HPD3	更新
555	Online HDD/SDD Flash Component for Linux (x64) - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	firmware-hdd-1e51a57347-HPD3-2.1.x86_64.rpm	VK001920JWSSR	HPD3 (B)	HPD3	更新
556	Online HDD/SDD Flash Component for Linux (x64) - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	firmware-hdd-1e51a57347-HPD3-2.1.x86_64.rpm	VK003840JWSST	HPD3 (B)	HPD3	更新
557	Online HDD/SDD Flash Component for Linux (x64) - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	firmware-hdd-1e51a57347-HPD3-2.1.x86_64.rpm	VK007680JWSSU	HPD3 (B)	HPD3	更新
558	Online HDD/SDD Flash Component for Linux (x64) - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	firmware-hdd-1e51a57347-HPD3-2.1.x86_64.rpm	VO015300JWSSV	HPD3 (B)	HPD3	更新
559	Online HDD/SDD Flash Component for Linux (x64) - VO000960JWTBK, VO001920JWTL, VO003840JWTLN, VO007680JWTLB, MO000400JWTLQ, MO000800JWTLR, MO001600JWTLT, MO003200JWTLU, MO006400JWTLCD, EO000400JWTLBV, EO000800JWTLCA, EO001600JWTLCB Drives	firmware-hdd-9ad359dac1-HPD7-4.1.x86_64.rpm	VO000960JWTBK	HPD7 (D)	HPD7	更新
560	Online HDD/SDD Flash Component for Linux (x64) - VO000960JWTBK, VO001920JWTL, VO003840JWTLN, VO007680JWTLB, MO000400JWTLQ, MO000800JWTLR, MO001600JWTLT, MO003200JWTLU, MO006400JWTLCD, EO000400JWTLBV, EO000800JWTLCA, EO001600JWTLCB Drives	firmware-hdd-9ad359dac1-HPD7-4.1.x86_64.rpm	VO001920JWTL	HPD7 (D)	HPD7	更新

561	Online HDD/SDD Flash Component for Linux (x64) - VO000960JWBK, VO001920JWTL, VO003840JWBN, VO007680JWBP, MO000400JWBQ, MO000800JWBR, MO001600JWBT, MO003200JWBU, MO006400JWTC, EO000400JWBV, EO000800JWTA, EO001600JWTCB Drives	firmware-hdd-9ad359d ac1-HPD7-4.1.x86_64.rpm	VO003840JWBN	HPD7 (D)	HPD7	更新
562	Online HDD/SDD Flash Component for Linux (x64) - VO000960JWBK, VO001920JWTL, VO003840JWBN, VO007680JWBP, MO000400JWBQ, MO000800JWBR, MO001600JWBT, MO003200JWBU, MO006400JWTC, EO000400JWBV, EO000800JWTA, EO001600JWTCB Drives	firmware-hdd-9ad359d ac1-HPD7-4.1.x86_64.rpm	VO007680JWBP	HPD7 (D)	HPD7	更新
563	Online HDD/SDD Flash Component for Linux (x64) - VO000960JWBK, VO001920JWTL, VO003840JWBN, VO007680JWBP, MO000400JWBQ, MO000800JWBR, MO001600JWBT, MO003200JWBU, MO006400JWTC, EO000400JWBV, EO000800JWTA, EO001600JWTCB Drives	firmware-hdd-9ad359d ac1-HPD7-4.1.x86_64.rpm	MO000400JWBQ	HPD7 (D)	HPD7	更新
564	Online HDD/SDD Flash Component for Linux (x64) - VO000960JWBK, VO001920JWTL, VO003840JWBN, VO007680JWBP, MO000400JWBQ, MO000800JWBR, MO001600JWBT, MO003200JWBU, MO006400JWTC, EO000400JWBV, EO000800JWTA, EO001600JWTCB Drives	firmware-hdd-9ad359d ac1-HPD7-4.1.x86_64.rpm	MO000800JWBR	HPD7 (D)	HPD7	更新

565	Online HDD/SDD Flash Component for Linux (x64) - VO000960JWBK, VO001920JWTL, VO003840JWTLN, VO007680JWTLBP, MO000400JWTLBQ, MO000800JWTLBR, MO001600JWTLBT, MO003200JWTLBU, MO006400JWTLCD, EO000400JWTLBV, EO000800JWTLCA, EO001600JWTLCB Drives	firmware-hdd-9ad359d ac1-HPD7-4.1.x86_64.rpm	MO001600JWTLBT	HPD7 (D)	HPD7	更新
566	Online HDD/SDD Flash Component for Linux (x64) - VO000960JWBK, VO001920JWTL, VO003840JWTLN, VO007680JWTLBP, MO000400JWTLBQ, MO000800JWTLBR, MO001600JWTLBT, MO003200JWTLBU, MO006400JWTLCD, EO000400JWTLBV, EO000800JWTLCA, EO001600JWTLCB Drives	firmware-hdd-9ad359d ac1-HPD7-4.1.x86_64.rpm	MO003200JWTLBU	HPD7 (D)	HPD7	更新
567	Online HDD/SDD Flash Component for Linux (x64) - VO000960JWBK, VO001920JWTL, VO003840JWTLN, VO007680JWTLBP, MO000400JWTLBQ, MO000800JWTLBR, MO001600JWTLBT, MO003200JWTLBU, MO006400JWTLCD, EO000400JWTLBV, EO000800JWTLCA, EO001600JWTLCB Drives	firmware-hdd-9ad359d ac1-HPD7-4.1.x86_64.rpm	MO006400JWTLCD	HPD7 (D)	HPD7	更新
568	Online HDD/SDD Flash Component for Linux (x64) - VO000960JWBK, VO001920JWTL, VO003840JWTLN, VO007680JWTLBP, MO000400JWTLBQ, MO000800JWTLBR, MO001600JWTLBT, MO003200JWTLBU, MO006400JWTLCD, EO000400JWTLBV, EO000800JWTLCA, EO001600JWTLCB Drives	firmware-hdd-9ad359d ac1-HPD7-4.1.x86_64.rpm	EO000400JWTLBV	HPD7 (D)	HPD7	更新

569	Online HDD/SDD Flash Component for Linux (x64) - VO000960JWBK, VO001920JWBK, VO003840JWBN, VO007680JWBP, MO000400JWBQ, MO000800JWBR, MO001600JWBT, MO003200JWBU, MO006400JWTC, EO000400JWBV, EO000800JWTC, EO001600JWTCB Drives	firmware-hdd-9ad359d ac1-HPD7-4.1.x86_64.rpm	EO000800JWTC	HPD7 (D)	HPD7	更新
570	Online HDD/SDD Flash Component for Linux (x64) - VO000960JWBK, VO001920JWBK, VO003840JWBN, VO007680JWBP, MO000400JWBQ, MO000800JWBR, MO001600JWBT, MO003200JWBU, MO006400JWTC, EO000400JWBV, EO000800JWTC, EO001600JWTCB Drives	firmware-hdd-9ad359d ac1-HPD7-4.1.x86_64.rpm	EO001600JWTCB	HPD7 (D)	HPD7	更新
571	Online HDD/SDD Flash Component for Linux (x64) - VO000960JWBK, VO001920JWBK, VO003840JWBN, VO007680JWBP, MO000400JWBQ, MO000800JWBR, MO001600JWBT, MO003200JWBU, MO006400JWTC, EO000400JWBV, EO000800JWTC, EO001600JWTCB Drives	firmware-hdd-9ad359d ac1-HPD7-4.1.x86_64.rpm	EO003200JWTC	HPD7 (D)	HPD7	更新
572	Online HDD/SDD Flash Component for Linux (x64) - VO000960JWBK, VO001920JWBK, VO003840JWBN, VO007680JWBP, MO000400JWBQ, MO000800JWBR, MO001600JWBT, MO003200JWBU, MO006400JWTC, EO000400JWBV, EO000800JWTC, EO001600JWTCB Drives	firmware-hdd-9ad359d ac1-HPD7-4.1.x86_64.rpm	MO001920JWW WV	HPD7 (D)	HPD7	更新
573	Online HDD/SDD Flash Component for Linux (x64) - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV, and VO3840JFDHA Drives	firmware-hdd-8ed8893 abd-HPD8-1.1.x86_64.rpm	VO0480JFDGT	HPD8	HPD8	更新

574	Online HDD/SDD Flash Component for Linux (x64) - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV, and VO3840JFDHA Drives	firmware-hdd-8ed8893abd-HPD8-1.1.x86_64.rpm	VO0960JFDGU	HPD8	HPD8	更新
575	Online HDD/SDD Flash Component for Linux (x64) - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV, and VO3840JFDHA Drives	firmware-hdd-8ed8893abd-HPD8-1.1.x86_64.rpm	VO1920JFDGV	HPD8	HPD8	更新
576	Online HDD/SDD Flash Component for Linux (x64) - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV, and VO3840JFDHA Drives	firmware-hdd-8ed8893abd-HPD8-1.1.x86_64.rpm	VO3840JFDHA	HPD8	HPD8	更新
577	Online HDD/SDD Flash Component for Linux (x64) - VO1920JEUQQ Drives	firmware-hdd-5d9e841607-HPD3-5.1.x86_64.rpm	VO1920JEUQQ	HPD3 (E)	HPD3	更新
578	Online HDD/SDD Flash Component for VMware ESXi - EG000300JWBHR Drives	CP040530.zip	EG000300JWBHR	HPD4 (B)	HPD4	更新
579	Online HDD/SDD Flash Component for VMware ESXi - EG000300JWFVB Drives	CP040631.zip	EG000300JWFVB	HPD2 (D)	HPD2	更新
580	Online HDD/SDD Flash Component for VMware ESXi - EG000300JWSJP, EG000600JWJNH and EG001200JWJNK Drive	CP041563.zip	EG000600JWJNH	HPD2 (B)	HPD2	更新
581	Online HDD/SDD Flash Component for VMware ESXi - EG000300JWSJP, EG000600JWJNH and EG001200JWJNK Drive	CP041563.zip	EG001200JWJNK	HPD2 (B)	HPD2	更新
582	Online HDD/SDD Flash Component for VMware ESXi - EG000300JWSJP, EG000600JWJNH and EG001200JWJNK Drive	CP041563.zip	EG000300JWSJP	HPD2 (B)	HPD2	更新
583	Online HDD/SDD Flash Component for VMware ESXi - EG000600JWEBH and EG000300JWEBF Drives	CP040661.zip	EG000600JWEBH	HPD4 (B)	HPD4	更新
584	Online HDD/SDD Flash Component for VMware ESXi - EG000600JWEBH and EG000300JWEBF Drives	CP040661.zip	EG000300JWEBF	HPD4 (B)	HPD4	更新
585	Online HDD/SDD Flash Component for VMware ESXi - EG000600JWFUV and EG001200JWFVA Drives	CP040635.zip	EG000600JWFUV	HPD3 (D)	HPD3	更新
586	Online HDD/SDD Flash Component for VMware ESXi - EG000600JWFUV and EG001200JWFVA Drives	CP040635.zip	EG001200JWFVA	HPD3 (D)	HPD3	更新
587	Online HDD/SDD Flash Component for VMware ESXi - EG000600JWJNP and EG001200JWJNQ Drives	CP040653.zip	EG000600JWJNP	HPD2 (B)	HPD2	更新
588	Online HDD/SDD Flash Component for VMware ESXi - EG000600JWJNP and EG001200JWJNQ Drives	CP040653.zip	EG001200JWJNQ	HPD2 (B)	HPD2	更新



589	Online HDD/SDD Flash Component for VMware ESXi - EG001800JWFVC Drives	CP040556.zip	EG001800JWFVC	HPD3 (B)	HPD3	更新
590	Online HDD/SDD Flash Component for VMware ESXi - EG001800JWJNL and EG002400JWJNN Drive	CP041560.zip	EG001800JWJNL	HPD2 (B)	HPD2	更新
591	Online HDD/SDD Flash Component for VMware ESXi - EG001800JWJNL and EG002400JWJNN Drive	CP041560.zip	EG002400JWJNN	HPD2 (B)	HPD2	更新
592	Online HDD/SDD Flash Component for VMware ESXi - EG001800JWJNR and EG002400JWJNT Drives	CP040666.zip	EG001800JWJNR	HPD4 (B)	HPD4	更新
593	Online HDD/SDD Flash Component for VMware ESXi - EG001800JWJNR and EG002400JWJNT Drives	CP040666.zip	EG002400JWJNT	HPD4 (B)	HPD4	更新
594	Online HDD/SDD Flash Component for VMware ESXi - EG0300FCSPH, EG0450FCSPK, EG0600FCSP, and EG0900FCSPN Drives	CP040531.zip	EG0300FCSPH	HPD2 (E)	HPD2	更新
595	Online HDD/SDD Flash Component for VMware ESXi - EG0300FCSPH, EG0450FCSPK, EG0600FCSP, and EG0900FCSPN Drives	CP040531.zip	EG0450FCSPK	HPD2 (E)	HPD2	更新
596	Online HDD/SDD Flash Component for VMware ESXi - EG0300FCSPH, EG0450FCSPK, EG0600FCSP, and EG0900FCSPN Drives	CP040531.zip	EG0600FCSP	HPD2 (E)	HPD2	更新
597	Online HDD/SDD Flash Component for VMware ESXi - EG0300FCSPH, EG0450FCSPK, EG0600FCSP, and EG0900FCSPN Drives	CP040531.zip	EG0900FCSPN	HPD2 (E)	HPD2	更新
598	Online HDD/SDD Flash Component for VMware ESXi - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB, and EG1200JEHMC Drives	CP040614.zip	EG0300JEHLV	HPD5 (F)	HPD5	更新
599	Online HDD/SDD Flash Component for VMware ESXi - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB, and EG1200JEHMC Drives	CP040614.zip	EG0600JEHMA	HPD5 (F)	HPD5	更新
600	Online HDD/SDD Flash Component for VMware ESXi - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB, and EG1200JEHMC Drives	CP040614.zip	EG0900JEHMB	HPD5 (F)	HPD5	更新
601	Online HDD/SDD Flash Component for VMware ESXi - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB, and EG1200JEHMC Drives	CP040614.zip	EG1200JEHMC	HPD5 (F)	HPD5	更新

602	Online HDD/SDD Flash Component for VMware ESXi - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB, and EG1200JEMDA Drives	CP039426.zip	EG0600JEMCV	HPD6 (E)	HPD6	更新
603	Online HDD/SDD Flash Component for VMware ESXi - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB, and EG1200JEMDA Drives	CP039426.zip	EG1200JEMDA	HPD6 (E)	HPD6	更新
604	Online HDD/SDD Flash Component for VMware ESXi - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB, and EG1200JEMDA Drives	CP039426.zip	EG0300JFCKA	HPD6 (E)	HPD6	更新
605	Online HDD/SDD Flash Component for VMware ESXi - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB, and EG1200JEMDA Drives	CP039426.zip	EG0900JFCKB	HPD6 (E)	HPD6	更新
606	Online HDD/SDD Flash Component for VMware ESXi - EG0600JETKA, EG0900JETKB, and EG1200JETKC Drives	CP040504.zip	EG0600JETKA	HPD7 (B)	HPD7	更新
607	Online HDD/SDD Flash Component for VMware ESXi - EG0600JETKA, EG0900JETKB, and EG1200JETKC Drives	CP040504.zip	EG0900JETKB	HPD7 (B)	HPD7	更新
608	Online HDD/SDD Flash Component for VMware ESXi - EG0600JETKA, EG0900JETKB, and EG1200JETKC Drives	CP040504.zip	EG1200JETKC	HPD7 (B)	HPD7	更新
609	Online HDD/SDD Flash Component for VMware ESXi - EG1800JEHMD Drive	CP040624.zip	EG1800JEHMD	HPD6 (F)	HPD6	更新
610	Online HDD/SDD Flash Component for VMware ESXi - EG1800JEMDB Drives	CP040573.zip	EG1800JEMDB	HPD5 (E)	HPD5	更新
611	Online HDD/SDD Flash Component for VMware ESXi - EG1800JFHMH Drives	CP040626.zip	EG1800JFHMH	HPD7 (D)	HPD7	更新
612	Online HDD/SDD Flash Component for VMware ESXi - EH000300JWCPK, EH000600JWCPL, and EH000900JWCPN Drives	CP040541.zip	EH000300JWCPK	HPD5 (B)	HPD5	更新
613	Online HDD/SDD Flash Component for VMware ESXi - EH000300JWCPK, EH000600JWCPL, and EH000900JWCPN Drives	CP040541.zip	EH000600JWCPL	HPD5 (B)	HPD5	更新
614	Online HDD/SDD Flash Component for VMware ESXi - EH000300JWCPK, EH000600JWCPL, and EH000900JWCPN Drives	CP040541.zip	EH000900JWCPN	HPD5 (B)	HPD5	更新
615	Online HDD/SDD Flash Component for VMware ESXi - EH000600JWCPF and EH000900JWCPH Drives	CP040536.zip	EH000900JWCPH	HPD7 (B)	HPD7	更新

616	Online HDD/SDD Flash Component for VMware ESXi - EH000600JWCPCF and EH000900JWCPH Drives	CP040536.zip	EH000600JWCPCF	HPD7 (B)	HPD7	更新
617	Online HDD/SDD Flash Component for VMware ESXi - EH000900JWHPK and EH000600JWHPH Drives	CP040684.zip	EH000900JWHPK	HPD3 (B)	HPD3	更新
618	Online HDD/SDD Flash Component for VMware ESXi - EH000900JWHPK and EH000600JWHPH Drives	CP040684.zip	EH000600JWHPH	HPD3 (B)	HPD3	更新
619	Online HDD/SDD Flash Component for VMware ESXi - EH000900JWHPP, EH000600JWHPN and EH000300JWHPL Drives	CP040681.zip	EH000900JWHPP	HPD3 (B)	HPD3	更新
620	Online HDD/SDD Flash Component for VMware ESXi - EH000900JWHPP, EH000600JWHPN and EH000300JWHPL Drives	CP040681.zip	EH000600JWHPN	HPD3 (B)	HPD3	更新
621	Online HDD/SDD Flash Component for VMware ESXi - EH000900JWHPP, EH000600JWHPN and EH000300JWHPL Drives	CP040681.zip	EH000300JWHPL	HPD3 (B)	HPD3	更新
622	Online HDD/SDD Flash Component for VMware ESXi - EH0300JDXBA, EH0450JDXBB, and EH0600JDXBC Drives	CP039429.zip	EH0300JDXBA	HPD5 (E)	HPD5	更新
623	Online HDD/SDD Flash Component for VMware ESXi - EH0300JDXBA, EH0450JDXBB, and EH0600JDXBC Drives	CP039429.zip	EH0450JDXBB	HPD5 (E)	HPD5	更新
624	Online HDD/SDD Flash Component for VMware ESXi - EH0300JDXBA, EH0450JDXBB, and EH0600JDXBC Drives	CP039429.zip	EH0600JDXBC	HPD5 (E)	HPD5	更新
625	Online HDD/SDD Flash Component for VMware ESXi - EH0300JDYTH, EH0450JDYTK, and EH0600JDYTL Drives	CP040625.zip	EH0300JDYTH	HPD6 (F)	HPD6	更新
626	Online HDD/SDD Flash Component for VMware ESXi - EH0300JDYTH, EH0450JDYTK, and EH0600JDYTL Drives	CP040625.zip	EH0450JDYTK	HPD6 (F)	HPD6	更新
627	Online HDD/SDD Flash Component for VMware ESXi - EH0300JDYTH, EH0450JDYTK, and EH0600JDYTL Drives	CP040625.zip	EH0600JDYTL	HPD6 (F)	HPD6	更新
628	Online HDD/SDD Flash Component for VMware ESXi - EH0300JEDHC, EH0450JEDHD, and EH0600JEDHE Drives	CP039423.zip	EH0300JEDHC	HPD4 (F)	HPD4	更新

629	Online HDD/SDD Flash Component for VMware ESXi - EH0300JEDHC, EH0450JEDHD, and EH0600JEDHE Drives	CP039423.zip	EH0450JEDHD	HPD4 (F)	HPD4	更新
630	Online HDD/SDD Flash Component for VMware ESXi - EH0300JEDHC, EH0450JEDHD, and EH0600JEDHE Drives	CP039423.zip	EH0600JEDHE	HPD4 (F)	HPD4	更新
631	Online HDD/SDD Flash Component for VMware ESXi - EH0600JDYTN Drive	CP040688.zip	EH0600JDYTN	HPD7 (D)	HPD7	更新
632	Online HDD/SDD Flash Component for VMware ESXi - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	CP040645.zip	EO000400JWDKP	HPD2 (B)	HPD2	更新
633	Online HDD/SDD Flash Component for VMware ESXi - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	CP040645.zip	EO000800JWDKQ	HPD2 (B)	HPD2	更新
634	Online HDD/SDD Flash Component for VMware ESXi - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	CP040645.zip	EO001600JWDKR	HPD2 (B)	HPD2	更新
635	Online HDD/SDD Flash Component for VMware ESXi - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	CP040645.zip	MO000400JWDK U	HPD2 (B)	HPD2	更新
636	Online HDD/SDD Flash Component for VMware ESXi - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	CP040645.zip	MO000800JWDK V	HPD2 (B)	HPD2	更新

637	Online HDD/SDD Flash Component for VMware ESXi - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	CP040645.zip	MO001600JWDLA	HPD2 (B)	HPD2	更新
638	Online HDD/SDD Flash Component for VMware ESXi - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	CP040645.zip	MO003200JWDLB	HPD2 (B)	HPD2	更新
639	Online HDD/SDD Flash Component for VMware ESXi - MB002000JWFVN and MB004000JWFVP Drives	CP040683.zip	MB002000JWFVN	HPD2 (B)	HPD2	更新
640	Online HDD/SDD Flash Component for VMware ESXi - MB002000JWFVN and MB004000JWFVP Drives	CP040683.zip	MB004000JWFVP	HPD2 (B)	HPD2	更新
641	Online HDD/SDD Flash Component for VMware ESXi - MB004000JWFVK and MB006000JWFVL Drives	CP040686.zip	MB004000JWFVK	HPD2 (B)	HPD2	更新
642	Online HDD/SDD Flash Component for VMware ESXi - MB004000JWFVK and MB006000JWFVL Drives	CP040686.zip	MB006000JWFVL	HPD2 (B)	HPD2	更新
643	Online HDD/SDD Flash Component for VMware ESXi - MB004000JWKGU Drive	CP041492.zip	MB004000JWKGU	HPD1 (B)	HPD1	更新
644	Online HDD/SDD Flash Component for VMware ESXi - MB006000JWKGN Drive	CP041489.zip	MB006000JWKGN	HPD1 (B)	HPD1	更新
645	Online HDD/SDD Flash Component for VMware ESXi - MB008000JWJRQ and MB006000JWJRP Drives	CP040693.zip	MB008000JWJRQ	HPD4 (B)	HPD4	更新
646	Online HDD/SDD Flash Component for VMware ESXi - MB008000JWJRQ and MB006000JWJRP Drives	CP040693.zip	MB006000JWJRP	HPD4 (B)	HPD4	更新
647	Online HDD/SDD Flash Component for VMware ESXi - MB008000JWRTD Drive	CP041478.zip	MB008000JWRTD	HPD1 (B)	HPD1	更新
648	Online HDD/SDD Flash Component for VMware ESXi - MB010000JWAYK and MB008000JWAYH Drives	CP040637.zip	MB010000JWAYK	HPD5 (C)	HPD5	更新
649	Online HDD/SDD Flash Component for VMware ESXi - MB010000JWAYK and MB008000JWAYH Drives	CP040637.zip	MB008000JWAYH	HPD5 (C)	HPD5	更新
650	Online HDD/SDD Flash Component for VMware ESXi - MB012000JWDFD Drives	CP040682.zip	MB012000JWDFD	HPD2 (C)	HPD2	更新
651	Online HDD/SDD Flash Component for VMware ESXi - MB014000JUWDB Drive	CP041510.zip	MB014000JUWDB	HPD2 (B)	HPD2	更新

652	Online HDD/SDD Flash Component for VMware ESXi - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives	CP040660.zip	MB1000JVYZL	HPD3 (B)	HPD3	更新
653	Online HDD/SDD Flash Component for VMware ESXi - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives	CP040660.zip	MB2000JVYZN	HPD3 (B)	HPD3	更新
654	Online HDD/SDD Flash Component for VMware ESXi - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives	CP040660.zip	MB3000JVYZP	HPD3 (B)	HPD3	更新
655	Online HDD/SDD Flash Component for VMware ESXi - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives	CP040660.zip	MB4000JVYZQ	HPD3 (B)	HPD3	更新
656	Online HDD/SDD Flash Component for VMware ESXi - MB2000JFDSL and MB4000JFDSN Drives	CP040513.zip	MB2000JFDSL	HPD4 (E)	HPD4	更新
657	Online HDD/SDD Flash Component for VMware ESXi - MB2000JFDSL and MB4000JFDSN Drives	CP040513.zip	MB4000JFDSN	HPD4 (E)	HPD4	更新
658	Online HDD/SDD Flash Component for VMware ESXi - MB2000JFEML and MB4000JFEMN Drives	CP040640.zip	MB2000JFEML	HPD6 (E)	HPD6	更新
659	Online HDD/SDD Flash Component for VMware ESXi - MB2000JFEML and MB4000JFEMN Drives	CP040640.zip	MB4000JFEMN	HPD6 (E)	HPD6	更新
660	Online HDD/SDD Flash Component for VMware ESXi - MB2000JFEPA and MB4000JFEPB Drives	CP040514.zip	MB2000JFEPA	HPD5 (E)	HPD5	更新
661	Online HDD/SDD Flash Component for VMware ESXi - MB2000JFEPA and MB4000JFEPB Drives	CP040514.zip	MB4000JFEPB	HPD5 (E)	HPD5	更新
662	Online HDD/SDD Flash Component for VMware ESXi - MB4000JEFNC and MB6000JEFND Drives	CP039427.zip	MB4000JEFNC	HPD9 (E)	HPD9	更新
663	Online HDD/SDD Flash Component for VMware ESXi - MB4000JEFNC and MB6000JEFND Drives	CP039427.zip	MB6000JEFND	HPD9 (E)	HPD9	更新
664	Online HDD/SDD Flash Component for VMware ESXi - MB4000JEQNL and MB6000JEQNN Drives	CP039424.zip	MB4000JEQNL	HPDB (E)	HPDB	更新
665	Online HDD/SDD Flash Component for VMware ESXi - MB4000JEQNL and MB6000JEQNN Drives	CP039424.zip	MB6000JEQNN	HPDB (E)	HPDB	更新
666	Online HDD/SDD Flash Component for VMware ESXi - MB4000JEXYA and MB6000JEXYB Drives	CP040533.zip	MB4000JEXYA	HPD9 (B)	HPD9	更新

667	Online HDD/SDD Flash Component for VMware ESXi - MB4000JEXYA and MB6000JEXYB Drives	CP040533.zip	MB6000JEXYB	HPD9 (B)	HPD9	更新
668	Online HDD/SDD Flash Component for VMware ESXi - MB6000JEQUV and MB8000JEQVA Drives	CP040519.zip	MB6000JEQUV	HPDB (E)	HPDB	更新
669	Online HDD/SDD Flash Component for VMware ESXi - MB6000JEQUV and MB8000JEQVA Drives	CP040519.zip	MB8000JEQVA	HPDB (E)	HPDB	更新
670	Online HDD/SDD Flash Component for VMware ESXi - MB6000JVYYV Drives	CP040534.zip	MB6000JVYYV	HPD2 (E)	HPD2	更新
671	Online HDD/SDD Flash Component for VMware ESXi - MB6000JVYZD and MB4000JVYZC Drives	CP040636.zip	MB6000JVYZD	HPD4 (B)	HPD4	更新
672	Online HDD/SDD Flash Component for VMware ESXi - MB6000JVYZD and MB4000JVYZC Drives	CP040636.zip	MB4000JVYZC	HPD4 (B)	HPD4	更新
673	Online HDD/SDD Flash Component for VMware ESXi - MB8000JFECQ Drives	CP040532.zip	MB8000JFECQ	HPD7 (D)	HPD7	更新
674	Online HDD/SDD Flash Component for VMware ESXi - MM1000JEFRB and MM2000JEFRC Drives	CP038874.zip	MM1000JEFRB	HPD8 (D)	HPD8	更新
675	Online HDD/SDD Flash Component for VMware ESXi - MM1000JEFRB and MM2000JEFRC Drives	CP038874.zip	MM2000JEFRC	HPD8 (D)	HPD8	更新
676	Online HDD/SDD Flash Component for VMware ESXi - MM1000JFJTH Drives	CP040517.zip	MM1000JFJTH	HPD3 (D)	HPD3	更新
677	Online HDD/SDD Flash Component for VMware ESXi - MO000400JWFWN, MO000800JWFWP, MO001600JWFWQ, MO003200JWFWR, MO000960JWFWT, MO001920JWFWU and MO003840JWFWV Drives	CP041422.zip	MO000400JWFWN	HPD5 (B)	HPD5	更新
678	Online HDD/SDD Flash Component for VMware ESXi - MO000400JWFWN, MO000800JWFWP, MO001600JWFWQ, MO003200JWFWR, MO000960JWFWT, MO001920JWFWU and MO003840JWFWV Drives	CP041422.zip	MO000800JWFWP	HPD5 (B)	HPD5	更新
679	Online HDD/SDD Flash Component for VMware ESXi - MO000400JWFWN, MO000800JWFWP, MO001600JWFWQ, MO003200JWFWR, MO000960JWFWT, MO001920JWFWU and MO003840JWFWV Drives	CP041422.zip	MO001600JWFWQ	HPD5 (B)	HPD5	更新

680	Online HDD/SDD Flash Component for VMware ESXi - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVV Drives	CP041422.zip	MO003200JWFVR	HPD5 (B)	HPD5	更新
681	Online HDD/SDD Flash Component for VMware ESXi - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVV Drives	CP041422.zip	MO000960JWFVT	HPD5 (B)	HPD5	更新
682	Online HDD/SDD Flash Component for VMware ESXi - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVV Drives	CP041422.zip	MO001920JWFVU	HPD5 (B)	HPD5	更新
683	Online HDD/SDD Flash Component for VMware ESXi - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVV Drives	CP041422.zip	MO003840JWFVV	HPD5 (B)	HPD5	更新
684	Online HDD/SDD Flash Component for VMware ESXi - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	CP040692.zip	MO000400JWUFT	HPD1 (B)	HPD1	更新
685	Online HDD/SDD Flash Component for VMware ESXi - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	CP040692.zip	MO000800JWUFU	HPD1 (B)	HPD1	更新
686	Online HDD/SDD Flash Component for VMware ESXi - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	CP040692.zip	MO001600JWUFV	HPD1 (B)	HPD1	更新



687	Online HDD/SDD Flash Component for VMware ESXi - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	CP040692.zip	MO003200JWUG A	HPD1 (B)	HPD1	更新
688	Online HDD/SDD Flash Component for VMware ESXi - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	CP040692.zip	MO006400JWUG B	HPD1 (B)	HPD1	更新
689	Online HDD/SDD Flash Component for VMware ESXi - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	CP040692.zip	EO000400JWUGC	HPD1 (B)	HPD1	更新
690	Online HDD/SDD Flash Component for VMware ESXi - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	CP040692.zip	EO000800JWUGD	HPD1 (B)	HPD1	更新
691	Online HDD/SDD Flash Component for VMware ESXi - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	CP040692.zip	EO001600JWUGE	HPD1 (B)	HPD1	更新
692	Online HDD/SDD Flash Component for VMware ESXi - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE, and EO0800JEFPF Drives	CP039420.zip	EO0800JEFPF	HPD3 (E)	HPD3	更新
693	Online HDD/SDD Flash Component for VMware ESXi - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE, and EO0800JEFPF Drives	CP039420.zip	EO0400JEFPE	HPD3 (E)	HPD3	更新

694	Online HDD/SDD Flash Component for VMware ESXi - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE, and EO0800JEFPF Drives	CP039420.zip	EO0200JEFPD	HPD3 (E)	HPD3	更新
695	Online HDD/SDD Flash Component for VMware ESXi - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE, and EO0800JEFPF Drives	CP039420.zip	MO1600JEFPC	HPD3 (E)	HPD3	更新
696	Online HDD/SDD Flash Component for VMware ESXi - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE, and EO0800JEFPF Drives	CP039420.zip	MO0800JEFPB	HPD3 (E)	HPD3	更新
697	Online HDD/SDD Flash Component for VMware ESXi - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE, and EO0800JEFPF Drives	CP039420.zip	MO0400JEFPA	HPD3 (E)	HPD3	更新
698	Online HDD/SDD Flash Component for VMware ESXi - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE, and EO0800JEFPF Drives	CP039420.zip	MO0200JEFNV	HPD3 (E)	HPD3	更新
699	Online HDD/SDD Flash Component for VMware ESXi - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK, and MO3200JFFCL Drives	CP042215.zip	MO0400JFFCF	HPD8	HPD8	更新
700	Online HDD/SDD Flash Component for VMware ESXi - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK, and MO3200JFFCL Drives	CP042215.zip	MO0800JFFCH	HPD8	HPD8	更新
701	Online HDD/SDD Flash Component for VMware ESXi - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK, and MO3200JFFCL Drives	CP042215.zip	MO1600JFFCK	HPD8	HPD8	更新
702	Online HDD/SDD Flash Component for VMware ESXi - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK, and MO3200JFFCL Drives	CP042215.zip	MO3200JFFCL	HPD8	HPD8	更新

703	Online HDD/SDD Flash Component for VMware ESXi - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	CP041504.zip	VK000960JWSSQ	HPD3 (B)	HPD3	更新
704	Online HDD/SDD Flash Component for VMware ESXi - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	CP041504.zip	VK001920JWSSR	HPD3 (B)	HPD3	更新
705	Online HDD/SDD Flash Component for VMware ESXi - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	CP041504.zip	VK003840JWSST	HPD3 (B)	HPD3	更新
706	Online HDD/SDD Flash Component for VMware ESXi - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	CP041504.zip	VK007680JWSSU	HPD3 (B)	HPD3	更新
707	Online HDD/SDD Flash Component for VMware ESXi - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	CP041504.zip	VO015300JWSSV	HPD3 (B)	HPD3	更新
708	Online HDD/SDD Flash Component for VMware ESXi - VO000960JWTBK, VO001920JWTLB, VO003840JWTLN, VO007680JWTLB, MO000400JWTLQ, MO000800JWTLR, MO001600JWTLT, MO003200JWTLU, MO006400JWTLCD, EO000400JWTLV, EO000800JWTLCA, EO001600JWTLCB Drives	CP040758.zip	VO000960JWTBK	HPD7 (B)	HPD7	更新
709	Online HDD/SDD Flash Component for VMware ESXi - VO000960JWTBK, VO001920JWTLB, VO003840JWTLN, VO007680JWTLB, MO000400JWTLQ, MO000800JWTLR, MO001600JWTLT, MO003200JWTLU, MO006400JWTLCD, EO000400JWTLV, EO000800JWTLCA, EO001600JWTLCB Drives	CP040758.zip	VO001920JWTLB	HPD7 (B)	HPD7	更新

710	Online HDD/SDD Flash Component for VMware ESXi - VO000960JWTKB, VO001920JWTKL, VO003840JWTKN, VO007680JWTKP, MO000400JWTKQ, MO000800JWTKR, MO001600JWTKT, MO003200JWTKU, MO006400JWTKD, EO000400JWTKV, EO000800JWTKA, EO001600JWTKC Drives	CP040758.zip	VO003840JWTKN	HPD7 (B)	HPD7	更新
711	Online HDD/SDD Flash Component for VMware ESXi - VO000960JWTKB, VO001920JWTKL, VO003840JWTKN, VO007680JWTKP, MO000400JWTKQ, MO000800JWTKR, MO001600JWTKT, MO003200JWTKU, MO006400JWTKD, EO000400JWTKV, EO000800JWTKA, EO001600JWTKC Drives	CP040758.zip	VO007680JWTKP	HPD7 (B)	HPD7	更新
712	Online HDD/SDD Flash Component for VMware ESXi - VO000960JWTKB, VO001920JWTKL, VO003840JWTKN, VO007680JWTKP, MO000400JWTKQ, MO000800JWTKR, MO001600JWTKT, MO003200JWTKU, MO006400JWTKD, EO000400JWTKV, EO000800JWTKA, EO001600JWTKC Drives	CP040758.zip	MO000400JWTKQ	HPD7 (B)	HPD7	更新
713	Online HDD/SDD Flash Component for VMware ESXi - VO000960JWTKB, VO001920JWTKL, VO003840JWTKN, VO007680JWTKP, MO000400JWTKQ, MO000800JWTKR, MO001600JWTKT, MO003200JWTKU, MO006400JWTKD, EO000400JWTKV, EO000800JWTKA, EO001600JWTKC Drives	CP040758.zip	MO000800JWTKR	HPD7 (B)	HPD7	更新

714	Online HDD/SDD Flash Component for VMware ESXi - VO000960JWTKB, VO001920JWTKL, VO003840JWTKN, VO007680JWTKP, MO000400JWTKQ, MO000800JWTKR, MO001600JWTKT, MO003200JWTKU, MO006400JWTKD, EO000400JWTKV, EO000800JWTKA, EO001600JWTKC Drives	CP040758.zip	MO001600JWTKT	HPD7 (B)	HPD7	更新
715	Online HDD/SDD Flash Component for VMware ESXi - VO000960JWTKB, VO001920JWTKL, VO003840JWTKN, VO007680JWTKP, MO000400JWTKQ, MO000800JWTKR, MO001600JWTKT, MO003200JWTKU, MO006400JWTKD, EO000400JWTKV, EO000800JWTKA, EO001600JWTKC Drives	CP040758.zip	MO003200JWTKU	HPD7 (B)	HPD7	更新
716	Online HDD/SDD Flash Component for VMware ESXi - VO000960JWTKB, VO001920JWTKL, VO003840JWTKN, VO007680JWTKP, MO000400JWTKQ, MO000800JWTKR, MO001600JWTKT, MO003200JWTKU, MO006400JWTKD, EO000400JWTKV, EO000800JWTKA, EO001600JWTKC Drives	CP040758.zip	MO006400JWTKD	HPD7 (B)	HPD7	更新
717	Online HDD/SDD Flash Component for VMware ESXi - VO000960JWTKB, VO001920JWTKL, VO003840JWTKN, VO007680JWTKP, MO000400JWTKQ, MO000800JWTKR, MO001600JWTKT, MO003200JWTKU, MO006400JWTKD, EO000400JWTKV, EO000800JWTKA, EO001600JWTKC Drives	CP040758.zip	EO000400JWTKV	HPD7 (B)	HPD7	更新

718	Online HDD/SDD Flash Component for VMware ESXi - VO000960JWBK, VO001920JWBK, VO003840JWBK, VO007680JWBK, MO000400JWBK, MO000800JWBK, MO001600JWBK, MO003200JWBK, MO006400JWBK, EO000400JWBK, EO000800JWBK, EO001600JWBK Drives	CP040758.zip	EO000800JWBK	HPD7 (B)	HPD7	更新
719	Online HDD/SDD Flash Component for VMware ESXi - VO000960JWBK, VO001920JWBK, VO003840JWBK, VO007680JWBK, MO000400JWBK, MO000800JWBK, MO001600JWBK, MO003200JWBK, MO006400JWBK, EO000400JWBK, EO000800JWBK, EO001600JWBK Drives	CP040758.zip	EO001600JWBK	HPD7 (B)	HPD7	更新
720	Online HDD/SDD Flash Component for VMware ESXi - VO000960JWBK, VO001920JWBK, VO003840JWBK, VO007680JWBK, MO000400JWBK, MO000800JWBK, MO001600JWBK, MO003200JWBK, MO006400JWBK, EO000400JWBK, EO000800JWBK, EO001600JWBK Drives	CP040758.zip	EO003200JWBK	HPD7 (B)	HPD7	更新
721	Online HDD/SDD Flash Component for VMware ESXi - VO000960JWBK, VO001920JWBK, VO003840JWBK, VO007680JWBK, MO000400JWBK, MO000800JWBK, MO001600JWBK, MO003200JWBK, MO006400JWBK, EO000400JWBK, EO000800JWBK, EO001600JWBK Drives	CP040758.zip	MO001920JWBK WV	HPD7 (B)	HPD7	更新
722	Online HDD/SDD Flash Component for VMware ESXi - VO0480JFDT, VO0960JFDT, VO1920JFDT, and VO3840JFDT Drives	CP042219.zip	VO0480JFDT	HPD8	HPD8	更新

723	Online HDD/SDD Flash Component for VMware ESXi - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV, and VO3840JFDHA Drives	CP042219.zip	VO0960JFDGU	HPD8	HPD8	更新
724	Online HDD/SDD Flash Component for VMware ESXi - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV, and VO3840JFDHA Drives	CP042219.zip	VO1920JFDGV	HPD8	HPD8	更新
725	Online HDD/SDD Flash Component for VMware ESXi - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV, and VO3840JFDHA Drives	CP042219.zip	VO3840JFDHA	HPD8	HPD8	更新
726	Online HDD/SDD Flash Component for VMware ESXi - VO1920JEUQQ Drives	CP040555.zip	VO1920JEUQQ	HPD3 (E)	HPD3	更新
727	Online HDD/SDD Flash Component for VMware ESXi -MB014000JWRTH, MB012000JWRTF and MB010000JWRTE Drives	CP041451.zip	MB014000JWRTH	HPD2 (B)	HPD2	更新
728	Online HDD/SDD Flash Component for VMware ESXi -MB014000JWRTH, MB012000JWRTF and MB010000JWRTE Drives	CP041451.zip	MB012000JWRTF	HPD2 (B)	HPD2	更新
729	Online HDD/SDD Flash Component for VMware ESXi -MB014000JWRTH, MB012000JWRTF and MB010000JWRTE Drives	CP041451.zip	MB010000JWRTE	HPD2 (B)	HPD2	更新
730	Online HDD/SDD Flash Component for Windows (x64) - EG000300JWBHR Drives	cp040419.exe	EG000300JWBHR	HPD4 (B)	HPD4	更新
731	Online HDD/SDD Flash Component for Windows (x64) - EG000300JWFVB Drives	cp040455.exe	EG000300JWFVB	HPD2 (C)	HPD2	更新
732	Online HDD/SDD Flash Component for Windows (x64) - EG000300JWSJP, EG000600JWJNH and EG001200JWJNK Drive	cp041565.exe	EG000300JWSJP	HPD2 (B)	HPD2	更新
733	Online HDD/SDD Flash Component for Windows (x64) - EG000300JWSJP, EG000600JWJNH and EG001200JWJNK Drive	cp041565.exe	EG000600JWJNH	HPD2 (B)	HPD2	更新
734	Online HDD/SDD Flash Component for Windows (x64) - EG000300JWSJP, EG000600JWJNH and EG001200JWJNK Drive	cp041565.exe	EG001200JWJNK	HPD2 (B)	HPD2	更新
735	Online HDD/SDD Flash Component for Windows (x64) - EG000600JWEBH and EG000300JWEBF Drives	cp040475.exe	EG000600JWEBH	HPD4 (B)	HPD4	更新

736	Online HDD/SDD Flash Component for Windows (x64) - EG000600JWEBH and EG000300JWEBF Drives	cp040475.exe	EG000300JWEBF	HPD4 (B)	HPD4	更新
737	Online HDD/SDD Flash Component for Windows (x64) - EG000600JWFUV and EG001200JWFVA Drives	cp040454.exe	EG000600JWFUV	HPD3 (C)	HPD3	更新
738	Online HDD/SDD Flash Component for Windows (x64) - EG000600JWFUV and EG001200JWFVA Drives	cp040454.exe	EG001200JWFVA	HPD3 (C)	HPD3	更新
739	Online HDD/SDD Flash Component for Windows (x64) - EG000600JWJNP and EG001200JWJNQ Drives	cp040453.exe	EG000600JWJNP	HPD2 (B)	HPD2	更新
740	Online HDD/SDD Flash Component for Windows (x64) - EG000600JWJNP and EG001200JWJNQ Drives	cp040453.exe	EG001200JWJNQ	HPD2 (B)	HPD2	更新
741	Online HDD/SDD Flash Component for Windows (x64) - EG001800JWFVC Drives	cp040433.exe	EG001800JWFVC	HPD3 (B)	HPD3	更新
742	Online HDD/SDD Flash Component for Windows (x64) - EG001800JWJNL and EG002400JWJNN Drive	cp041562.exe	EG001800JWJNL	HPD2 (B)	HPD2	更新
743	Online HDD/SDD Flash Component for Windows (x64) - EG001800JWJNL and EG002400JWJNN Drive	cp041562.exe	EG002400JWJNN	HPD2 (B)	HPD2	更新
744	Online HDD/SDD Flash Component for Windows (x64) - EG001800JWJNR and EG002400JWJNT Drives	cp040474.exe	EG001800JWJNR	HPD4 (B)	HPD4	更新
745	Online HDD/SDD Flash Component for Windows (x64) - EG001800JWJNR and EG002400JWJNT Drives	cp040474.exe	EG002400JWJNT	HPD4 (B)	HPD4	更新
746	Online HDD/SDD Flash Component for Windows (x64) - EG0300FCSPH, EG0450FCSPK, EG0600FC SPL, and EG0900FCSPN Drives	cp040420.exe	EG0300FCSPH	HPD2 (D)	HPD2	更新
747	Online HDD/SDD Flash Component for Windows (x64) - EG0300FCSPH, EG0450FCSPK, EG0600FC SPL, and EG0900FCSPN Drives	cp040420.exe	EG0450FCSPK	HPD2 (D)	HPD2	更新
748	Online HDD/SDD Flash Component for Windows (x64) - EG0300FCSPH, EG0450FCSPK, EG0600FC SPL, and EG0900FCSPN Drives	cp040420.exe	EG0600FC SPL	HPD2 (D)	HPD2	更新
749	Online HDD/SDD Flash Component for Windows (x64) - EG0300FCSPH, EG0450FCSPK, EG0600FC SPL, and EG0900FCSPN Drives	cp040420.exe	EG0900FCSPN	HPD2 (D)	HPD2	更新
750	Online HDD/SDD Flash Component for Windows (x64) - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB, and EG1200JEHMC Drives	cp040434.exe	EG0300JEHLV	HPD5 (E)	HPD5	更新



751	Online HDD/SDD Flash Component for Windows (x64) - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB, and EG1200JEHMC Drives	cp040434.exe	EG0600JEHMA	HPD5 (E)	HPD5	更新
752	Online HDD/SDD Flash Component for Windows (x64) - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB, and EG1200JEHMC Drives	cp040434.exe	EG0900JEHMB	HPD5 (E)	HPD5	更新
753	Online HDD/SDD Flash Component for Windows (x64) - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB, and EG1200JEHMC Drives	cp040434.exe	EG1200JEHMC	HPD5 (E)	HPD5	更新
754	Online HDD/SDD Flash Component for Windows (x64) - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB, and EG1200JEMDA Drives	cp040396.exe	EG0600JEMCV	HPD6 (D)	HPD6	更新
755	Online HDD/SDD Flash Component for Windows (x64) - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB, and EG1200JEMDA Drives	cp040396.exe	EG1200JEMDA	HPD6 (D)	HPD6	更新
756	Online HDD/SDD Flash Component for Windows (x64) - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB, and EG1200JEMDA Drives	cp040396.exe	EG0300JFCKA	HPD6 (D)	HPD6	更新
757	Online HDD/SDD Flash Component for Windows (x64) - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB, and EG1200JEMDA Drives	cp040396.exe	EG0900JFCKB	HPD6 (D)	HPD6	更新
758	Online HDD/SDD Flash Component for Windows (x64) - EG0600JETKA, EG0900JETKB, and EG1200JETKC Drives	cp040401.exe	EG0600JETKA	HPD7 (B)	HPD7	更新
759	Online HDD/SDD Flash Component for Windows (x64) - EG0600JETKA, EG0900JETKB, and EG1200JETKC Drives	cp040401.exe	EG0900JETKB	HPD7 (B)	HPD7	更新
760	Online HDD/SDD Flash Component for Windows (x64) - EG0600JETKA, EG0900JETKB, and EG1200JETKC Drives	cp040401.exe	EG1200JETKC	HPD7 (B)	HPD7	更新
761	Online HDD/SDD Flash Component for Windows (x64) - EG1800JEHMD Drive	cp040442.exe	EG1800JEHMD	HPD6 (E)	HPD6	更新
762	Online HDD/SDD Flash Component for Windows (x64) - EG1800JEMDB Drives	cp040571.exe	EG1800JEMDB	HPD5 (D)	HPD5	更新
763	Online HDD/SDD Flash Component for Windows (x64) - EG1800JFHMH Drives	cp040444.exe	EG1800JFHMH	HPD7 (D)	HPD7	更新

764	Online HDD/SDD Flash Component for Windows (x64) - EH000300JWCPK, EH000600JWCPL, and EH000900JWCPN Drives	cp040427.exe	EH000300JWCPK	HPD5 (B)	HPD5	更新
765	Online HDD/SDD Flash Component for Windows (x64) - EH000300JWCPK, EH000600JWCPL, and EH000900JWCPN Drives	cp040427.exe	EH000600JWCPL	HPD5 (B)	HPD5	更新
766	Online HDD/SDD Flash Component for Windows (x64) - EH000300JWCPK, EH000600JWCPL, and EH000900JWCPN Drives	cp040427.exe	EH000900JWCPN	HPD5 (B)	HPD5	更新
767	Online HDD/SDD Flash Component for Windows (x64) - EH000600JWCPF and EH000900JWCPH Drives	cp040425.exe	EH000900JWCPH	HPD7 (B)	HPD7	更新
768	Online HDD/SDD Flash Component for Windows (x64) - EH000600JWCPF and EH000900JWCPH Drives	cp040425.exe	EH000600JWCPF	HPD7 (B)	HPD7	更新
769	Online HDD/SDD Flash Component for Windows (x64) - EH000900JWHPK and EH000600JWHPH Drives	cp040466.exe	EH000900JWHPK	HPD3 (B)	HPD3	更新
770	Online HDD/SDD Flash Component for Windows (x64) - EH000900JWHPK and EH000600JWHPH Drives	cp040466.exe	EH000600JWHPH	HPD3 (B)	HPD3	更新
771	Online HDD/SDD Flash Component for Windows (x64) - EH000900JWHPP, EH000600JWHPN and EH000300JWHPL Drives	cp040460.exe	EH000900JWHPP	HPD3 (B)	HPD3	更新
772	Online HDD/SDD Flash Component for Windows (x64) - EH000900JWHPP, EH000600JWHPN and EH000300JWHPL Drives	cp040460.exe	EH000600JWHPN	HPD3 (B)	HPD3	更新
773	Online HDD/SDD Flash Component for Windows (x64) - EH000900JWHPP, EH000600JWHPN and EH000300JWHPL Drives	cp040460.exe	EH000300JWHPL	HPD3 (B)	HPD3	更新
774	Online HDD/SDD Flash Component for Windows (x64) - EH0300JDXBA, EH0450JDXBB, and EH0600JDXBC Drives	cp040399.exe	EH0300JDXBA	HPD5 (D)	HPD5	更新
775	Online HDD/SDD Flash Component for Windows (x64) - EH0300JDXBA, EH0450JDXBB, and EH0600JDXBC Drives	cp040399.exe	EH0450JDXBB	HPD5 (D)	HPD5	更新
776	Online HDD/SDD Flash Component for Windows (x64) - EH0300JDXBA, EH0450JDXBB, and EH0600JDXBC Drives	cp040399.exe	EH0600JDXBC	HPD5 (D)	HPD5	更新
777	Online HDD/SDD Flash Component for Windows (x64) - EH0300JDYTH, EH0450JDYTK, and EH0600JDYTL Drives	cp040443.exe	EH0300JDYTH	HPD6 (E)	HPD6	更新

778	Online HDD/SDD Flash Component for Windows (x64) - EH0300JDYTH, EH0450JDYTK, and EH0600JDYTL Drives	cp040443.exe	EH0450JDYTK	HPD6 (E)	HPD6	更新
779	Online HDD/SDD Flash Component for Windows (x64) - EH0300JDYTH, EH0450JDYTK, and EH0600JDYTL Drives	cp040443.exe	EH0600JDYTL	HPD6 (E)	HPD6	更新
780	Online HDD/SDD Flash Component for Windows (x64) - EH0300JEDHC, EH0450JEDHD, and EH0600JEDHE Drives	cp040389.exe	EH0300JEDHC	HPD4 (F)	HPD4	更新
781	Online HDD/SDD Flash Component for Windows (x64) - EH0300JEDHC, EH0450JEDHD, and EH0600JEDHE Drives	cp040389.exe	EH0450JEDHD	HPD4 (F)	HPD4	更新
782	Online HDD/SDD Flash Component for Windows (x64) - EH0300JEDHC, EH0450JEDHD, and EH0600JEDHE Drives	cp040389.exe	EH0600JEDHE	HPD4 (F)	HPD4	更新
783	Online HDD/SDD Flash Component for Windows (x64) - EH0600JDYTN Drive	cp040468.exe	EH0600JDYTN	HPD7 (C)	HPD7	更新
784	Online HDD/SDD Flash Component for Windows (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	cp040450.exe	EO000400JWDKP	HPD2 (B)	HPD2	更新
785	Online HDD/SDD Flash Component for Windows (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	cp040450.exe	EO000800JWDKQ	HPD2 (B)	HPD2	更新
786	Online HDD/SDD Flash Component for Windows (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	cp040450.exe	EO001600JWDKR	HPD2 (B)	HPD2	更新
787	Online HDD/SDD Flash Component for Windows (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	cp040450.exe	MO000400JWDK U	HPD2 (B)	HPD2	更新

788	Online HDD/SDD Flash Component for Windows (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	cp040450.exe	MO000800JWDK V	HPD2 (B)	HPD2	更新
789	Online HDD/SDD Flash Component for Windows (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	cp040450.exe	MO001600JWDLA	HPD2 (B)	HPD2	更新
790	Online HDD/SDD Flash Component for Windows (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	cp040450.exe	MO003200JWDLB	HPD2 (B)	HPD2	更新
791	Online HDD/SDD Flash Component for Windows (x64) - MB002000JWFVN and MB004000JWFVP Drives	cp040467.exe	MB002000JWFVN	HPD2 (B)	HPD2	更新
792	Online HDD/SDD Flash Component for Windows (x64) - MB002000JWFVN and MB004000JWFVP Drives	cp040467.exe	MB004000JWFVP	HPD2 (B)	HPD2	更新
793	Online HDD/SDD Flash Component for Windows (x64) - MB004000JWFVK and MB006000JWFVL Drives	cp040458.exe	MB004000JWFVK	HPD2 (B)	HPD2	更新
794	Online HDD/SDD Flash Component for Windows (x64) - MB004000JWFVK and MB006000JWFVL Drives	cp040458.exe	MB006000JWFVL	HPD2 (B)	HPD2	更新
795	Online HDD/SDD Flash Component for Windows (x64) - MB004000JWKGU Drive	cp041490.exe	MB004000JWKGU	HPD1 (B)	HPD1	更新
796	Online HDD/SDD Flash Component for Windows (x64) - MB006000JWKGN Drive	cp041487.exe	MB006000JWKGN	HPD1 (B)	HPD1	更新
797	Online HDD/SDD Flash Component for Windows (x64) - MB008000JWJRQ and MB006000JWJRP Drives	cp040480.exe	MB008000JWJRQ	HPD4 (B)	HPD4	更新
798	Online HDD/SDD Flash Component for Windows (x64) - MB008000JWJRQ and MB006000JWJRP Drives	cp040480.exe	MB006000JWJRP	HPD4 (B)	HPD4	更新
799	Online HDD/SDD Flash Component for Windows (x64) - MB008000JWRD Drive	cp041480.exe	MB008000JWRD	HPD1 (B)	HPD1	更新

800	Online HDD/SDD Flash Component for Windows (x64) - MB010000JWAYK and MB008000JWAYH Drives	cp040445.exe	MB010000JWAYK	HPD5 (C)	HPD5	更新
801	Online HDD/SDD Flash Component for Windows (x64) - MB010000JWAYK and MB008000JWAYH Drives	cp040445.exe	MB008000JWAYH	HPD5 (C)	HPD5	更新
802	Online HDD/SDD Flash Component for Windows (x64) - MB012000JWDFD Drives	cp040456.exe	MB012000JWDFD	HPD2 (C)	HPD2	更新
803	Online HDD/SDD Flash Component for Windows (x64) - MB014000JWRTH, MB012000JWRTE and MB010000JWRTE Drives	cp041450.exe	MB014000JWRTH	HPD2 (B)	HPD2	更新
804	Online HDD/SDD Flash Component for Windows (x64) - MB014000JWRTH, MB012000JWRTE and MB010000JWRTE Drives	cp041450.exe	MB012000JWRTE	HPD2 (B)	HPD2	更新
805	Online HDD/SDD Flash Component for Windows (x64) - MB014000JWRTH, MB012000JWRTE and MB010000JWRTE Drives	cp041450.exe	MB010000JWRTE	HPD2 (B)	HPD2	更新
806	Online HDD/SDD Flash Component for Windows (x64) - MB014000JWUDB Drive	cp041519.exe	MB014000JWUDB	HPD2 (B)	HPD2	更新
807	Online HDD/SDD Flash Component for Windows (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives	cp040473.exe	MB1000JVYZL	HPD3 (B)	HPD3	更新
808	Online HDD/SDD Flash Component for Windows (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives	cp040473.exe	MB2000JVYZN	HPD3 (B)	HPD3	更新
809	Online HDD/SDD Flash Component for Windows (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives	cp040473.exe	MB3000JVYZP	HPD3 (B)	HPD3	更新
810	Online HDD/SDD Flash Component for Windows (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives	cp040473.exe	MB4000JVYZQ	HPD3 (B)	HPD3	更新
811	Online HDD/SDD Flash Component for Windows (x64) - MB2000JFDSL and MB4000JFDSN Drives	cp040405.exe	MB2000JFDSL	HPD4 (D)	HPD4	更新
812	Online HDD/SDD Flash Component for Windows (x64) - MB2000JFDSL and MB4000JFDSN Drives	cp040405.exe	MB4000JFDSN	HPD4 (D)	HPD4	更新
813	Online HDD/SDD Flash Component for Windows (x64) - MB2000JFEML and MB4000JFEMN Drives	cp040446.exe	MB2000JFEML	HPD6 (D)	HPD6	更新

814	Online HDD/SDD Flash Component for Windows (x64) - MB2000JFEML and MB4000JFEMN Drives	cp040446.exe	MB4000JFEMN	HPD6 (D)	HPD6	更新
815	Online HDD/SDD Flash Component for Windows (x64) - MB2000JFEPA and MB4000JFEPB Drives	cp040408.exe	MB2000JFEPA	HPD5 (D)	HPD5	更新
816	Online HDD/SDD Flash Component for Windows (x64) - MB2000JFEPA and MB4000JFEPB Drives	cp040408.exe	MB4000JFEPB	HPD5 (D)	HPD5	更新
817	Online HDD/SDD Flash Component for Windows (x64) - MB4000JEFNC and MB6000JEFND Drives	cp040398.exe	MB4000JEFNC	HPD9 (D)	HPD9	更新
818	Online HDD/SDD Flash Component for Windows (x64) - MB4000JEFNC and MB6000JEFND Drives	cp040398.exe	MB6000JEFND	HPD9 (D)	HPD9	更新
819	Online HDD/SDD Flash Component for Windows (x64) - MB4000JEQNL and MB6000JEQNN Drives	cp040390.exe	MB4000JEQNL	HPDB (D)	HPDB	更新
820	Online HDD/SDD Flash Component for Windows (x64) - MB4000JEQNL and MB6000JEQNN Drives	cp040390.exe	MB6000JEQNN	HPDB (D)	HPDB	更新
821	Online HDD/SDD Flash Component for Windows (x64) - MB4000JEXYA and MB6000JEXYB Drives	cp040423.exe	MB4000JEXYA	HPD9 (B)	HPD9	更新
822	Online HDD/SDD Flash Component for Windows (x64) - MB4000JEXYA and MB6000JEXYB Drives	cp040423.exe	MB6000JEXYB	HPD9 (B)	HPD9	更新
823	Online HDD/SDD Flash Component for Windows (x64) - MB6000JEQUV and MB8000JEQVA Drives	cp040414.exe	MB6000JEQUV	HPDB (D)	HPDB	更新
824	Online HDD/SDD Flash Component for Windows (x64) - MB6000JEQUV and MB8000JEQVA Drives	cp040414.exe	MB8000JEQVA	HPDB (D)	HPDB	更新
825	Online HDD/SDD Flash Component for Windows (x64) - MB6000JVYVYV Drives	cp040424.exe	MB6000JVYVYV	HPD2 (D)	HPD2	更新
826	Online HDD/SDD Flash Component for Windows (x64) - MB6000JVYZD and MB4000JVYZC Drives	cp040449.exe	MB6000JVYZD	HPD4 (B)	HPD4	更新
827	Online HDD/SDD Flash Component for Windows (x64) - MB6000JVYZD and MB4000JVYZC Drives	cp040449.exe	MB4000JVYZC	HPD4 (B)	HPD4	更新
828	Online HDD/SDD Flash Component for Windows (x64) - MB8000JFECQ Drives	cp040421.exe	MB8000JFECQ	HPD7 (C)	HPD7	更新
829	Online HDD/SDD Flash Component for Windows (x64) - MM1000JEFRB and MM2000JEFRC Drives	cp040392.exe	MM1000JEFRB	HPD8 (C)	HPD8	更新
830	Online HDD/SDD Flash Component for Windows (x64) - MM1000JEFRB and MM2000JEFRC Drives	cp040392.exe	MM2000JEFRC	HPD8 (C)	HPD8	更新

831	Online HDD/SDD Flash Component for Windows (x64) - MM1000JFJTH Drives	cp040411.exe	MM1000JFJTH	HPD3 (C)	HPD3	更新
832	Online HDD/SDD Flash Component for Windows (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVV Drives	cp041424.exe	MO000400JWFVN	HPD5 (B)	HPD5	更新
833	Online HDD/SDD Flash Component for Windows (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVV Drives	cp041424.exe	MO000800JWFVP	HPD5 (B)	HPD5	更新
834	Online HDD/SDD Flash Component for Windows (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVV Drives	cp041424.exe	MO001600JWFVQ	HPD5 (B)	HPD5	更新
835	Online HDD/SDD Flash Component for Windows (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVV Drives	cp041424.exe	MO003200JWFVR	HPD5 (B)	HPD5	更新
836	Online HDD/SDD Flash Component for Windows (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVV Drives	cp041424.exe	MO000960JWFVT	HPD5 (B)	HPD5	更新
837	Online HDD/SDD Flash Component for Windows (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVV Drives	cp041424.exe	MO001920JWFVU	HPD5 (B)	HPD5	更新
838	Online HDD/SDD Flash Component for Windows (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVV Drives	cp041424.exe	MO003840JWFVV	HPD5 (B)	HPD5	更新

839	Online HDD/SDD Flash Component for Windows (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	cp040481.exe	MO000400JWUFT	HPD1 (B)	HPD1	更新
840	Online HDD/SDD Flash Component for Windows (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	cp040481.exe	MO000800JWUFU	HPD1 (B)	HPD1	更新
841	Online HDD/SDD Flash Component for Windows (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	cp040481.exe	MO001600JWUFV	HPD1 (B)	HPD1	更新
842	Online HDD/SDD Flash Component for Windows (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	cp040481.exe	MO003200JWUGA	HPD1 (B)	HPD1	更新
843	Online HDD/SDD Flash Component for Windows (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	cp040481.exe	MO006400JWUGB	HPD1 (B)	HPD1	更新
844	Online HDD/SDD Flash Component for Windows (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	cp040481.exe	EO000400JWUGC	HPD1 (B)	HPD1	更新



845	Online HDD/SDD Flash Component for Windows (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	cp040481.exe	EO000800JWUGD	HPD1 (B)	HPD1	更新
846	Online HDD/SDD Flash Component for Windows (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	cp040481.exe	EO001600JWUGE	HPD1 (B)	HPD1	更新
847	Online HDD/SDD Flash Component for Windows (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE, and EO0800JEFPF Drives	cp040175.exe	EO0800JEFPF	HPD3 (D)	HPD3	更新
848	Online HDD/SDD Flash Component for Windows (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE, and EO0800JEFPF Drives	cp040175.exe	EO0400JEFPE	HPD3 (D)	HPD3	更新
849	Online HDD/SDD Flash Component for Windows (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE, and EO0800JEFPF Drives	cp040175.exe	EO0200JEFPD	HPD3 (D)	HPD3	更新
850	Online HDD/SDD Flash Component for Windows (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE, and EO0800JEFPF Drives	cp040175.exe	MO1600JEFPC	HPD3 (D)	HPD3	更新
851	Online HDD/SDD Flash Component for Windows (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE, and EO0800JEFPF Drives	cp040175.exe	MO0800JEFPB	HPD3 (D)	HPD3	更新

852	Online HDD/SDD Flash Component for Windows (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE, and EO0800JEFPF Drives	cp040175.exe	MO0400JEFPA	HPD3 (D)	HPD3	更新
853	Online HDD/SDD Flash Component for Windows (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE, and EO0800JEFPF Drives	cp040175.exe	MO0200JEFNV	HPD3 (D)	HPD3	更新
854	Online HDD/SDD Flash Component for Windows (x64) - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK, and MO3200JFFCL Drives	cp042216.exe	MO0400JFFCF	HPD8	HPD8	更新
855	Online HDD/SDD Flash Component for Windows (x64) - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK, and MO3200JFFCL Drives	cp042216.exe	MO0800JFFCH	HPD8	HPD8	更新
856	Online HDD/SDD Flash Component for Windows (x64) - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK, and MO3200JFFCL Drives	cp042216.exe	MO1600JFFCK	HPD8	HPD8	更新
857	Online HDD/SDD Flash Component for Windows (x64) - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK, and MO3200JFFCL Drives	cp042216.exe	MO3200JFFCL	HPD8	HPD8	更新
858	Online HDD/SDD Flash Component for Windows (x64) - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	cp041505.exe	VK000960JWSSQ	HPD3 (B)	HPD3	更新
859	Online HDD/SDD Flash Component for Windows (x64) - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	cp041505.exe	VK001920JWSSR	HPD3 (B)	HPD3	更新
860	Online HDD/SDD Flash Component for Windows (x64) - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	cp041505.exe	VK003840JWSST	HPD3 (B)	HPD3	更新

861	Online HDD/SDD Flash Component for Windows (x64) - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	cp041505.exe	VK007680JWSSU	HPD3 (B)	HPD3	更新
862	Online HDD/SDD Flash Component for Windows (x64) - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	cp041505.exe	VO015300JWSSV	HPD3 (B)	HPD3	更新
863	Online HDD/SDD Flash Component for Windows (x64) - VO000960JWTBK, VO001920JWTLB, VO003840JWTLN, VO007680JWTLP, MO000400JWTLQ, MO000800JWTLR, MO001600JWTLT, MO003200JWTLU, MO006400JWTLCD, EO000400JWTLBV, EO000800JWTLCA, EO001600JWTLCB Drives	cp040759.exe	VO000960JWTBK	HPD7 (B)	HPD7	更新
864	Online HDD/SDD Flash Component for Windows (x64) - VO000960JWTBK, VO001920JWTLB, VO003840JWTLN, VO007680JWTLP, MO000400JWTLQ, MO000800JWTLR, MO001600JWTLT, MO003200JWTLU, MO006400JWTLCD, EO000400JWTLBV, EO000800JWTLCA, EO001600JWTLCB Drives	cp040759.exe	VO001920JWTLB	HPD7 (B)	HPD7	更新
865	Online HDD/SDD Flash Component for Windows (x64) - VO000960JWTBK, VO001920JWTLB, VO003840JWTLN, VO007680JWTLP, MO000400JWTLQ, MO000800JWTLR, MO001600JWTLT, MO003200JWTLU, MO006400JWTLCD, EO000400JWTLBV, EO000800JWTLCA, EO001600JWTLCB Drives	cp040759.exe	VO003840JWTLN	HPD7 (B)	HPD7	更新

866	Online HDD/SDD Flash Component for Windows (x64) - VO000960JWBK, VO001920JWBK, VO003840JWBK, VO007680JWBK, MO000400JWBK, MO000800JWBK, MO001600JWBK, MO003200JWBK, MO006400JWBK, EO000400JWBK, EO000800JWBK, EO001600JWBK Drives	cp040759.exe	VO007680JWBK	HPD7 (B)	HPD7	更新
867	Online HDD/SDD Flash Component for Windows (x64) - VO000960JWBK, VO001920JWBK, VO003840JWBK, VO007680JWBK, MO000400JWBK, MO000800JWBK, MO001600JWBK, MO003200JWBK, MO006400JWBK, EO000400JWBK, EO000800JWBK, EO001600JWBK Drives	cp040759.exe	MO000400JWBK Q	HPD7 (B)	HPD7	更新
868	Online HDD/SDD Flash Component for Windows (x64) - VO000960JWBK, VO001920JWBK, VO003840JWBK, VO007680JWBK, MO000400JWBK, MO000800JWBK, MO001600JWBK, MO003200JWBK, MO006400JWBK, EO000400JWBK, EO000800JWBK, EO001600JWBK Drives	cp040759.exe	MO000800JWBK	HPD7 (B)	HPD7	更新
869	Online HDD/SDD Flash Component for Windows (x64) - VO000960JWBK, VO001920JWBK, VO003840JWBK, VO007680JWBK, MO000400JWBK, MO000800JWBK, MO001600JWBK, MO003200JWBK, MO006400JWBK, EO000400JWBK, EO000800JWBK, EO001600JWBK Drives	cp040759.exe	MO001600JWBK	HPD7 (B)	HPD7	更新

870	Online HDD/SDD Flash Component for Windows (x64) - VO000960JWBK, VO001920JWTL, VO003840JWTLN, VO007680JWTLBP, MO000400JWTLBQ, MO000800JWTLBR, MO001600JWTLBT, MO003200JWTLBU, MO006400JWTLCD, EO000400JWTLBV, EO000800JWTLCA, EO001600JWTLCTB Drives	cp040759.exe	MO003200JWTLBU	HPD7 (B)	HPD7	更新
871	Online HDD/SDD Flash Component for Windows (x64) - VO000960JWBK, VO001920JWTL, VO003840JWTLN, VO007680JWTLBP, MO000400JWTLBQ, MO000800JWTLBR, MO001600JWTLBT, MO003200JWTLBU, MO006400JWTLCD, EO000400JWTLBV, EO000800JWTLCA, EO001600JWTLCTB Drives	cp040759.exe	MO006400JWTLCD	HPD7 (B)	HPD7	更新
872	Online HDD/SDD Flash Component for Windows (x64) - VO000960JWBK, VO001920JWTL, VO003840JWTLN, VO007680JWTLBP, MO000400JWTLBQ, MO000800JWTLBR, MO001600JWTLBT, MO003200JWTLBU, MO006400JWTLCD, EO000400JWTLBV, EO000800JWTLCA, EO001600JWTLCTB Drives	cp040759.exe	EO000400JWTLBV	HPD7 (B)	HPD7	更新
873	Online HDD/SDD Flash Component for Windows (x64) - VO000960JWBK, VO001920JWTL, VO003840JWTLN, VO007680JWTLBP, MO000400JWTLBQ, MO000800JWTLBR, MO001600JWTLBT, MO003200JWTLBU, MO006400JWTLCD, EO000400JWTLBV, EO000800JWTLCA, EO001600JWTLCTB Drives	cp040759.exe	EO000800JWTLCA	HPD7 (B)	HPD7	更新

874	Online HDD/SDD Flash Component for Windows (x64) - VO000960JWTKB, VO001920JWTKL, VO003840JWTKN, VO007680JWTKP, MO000400JWTKQ, MO000800JWTKR, MO001600JWTKT, MO003200JWTKU, MO006400JWTKD, EO000400JWTKV, EO000800JWTKA, EO001600JWTKC Drives	cp040759.exe	EO001600JWTKC	HPD7 (B)	HPD7	更新
875	Online HDD/SDD Flash Component for Windows (x64) - VO000960JWTKB, VO001920JWTKL, VO003840JWTKN, VO007680JWTKP, MO000400JWTKQ, MO000800JWTKR, MO001600JWTKT, MO003200JWTKU, MO006400JWTKD, EO000400JWTKV, EO000800JWTKA, EO001600JWTKC Drives	cp040759.exe	EO003200JWTKC	HPD7 (B)	HPD7	更新
876	Online HDD/SDD Flash Component for Windows (x64) - VO000960JWTKB, VO001920JWTKL, VO003840JWTKN, VO007680JWTKP, MO000400JWTKQ, MO000800JWTKR, MO001600JWTKT, MO003200JWTKU, MO006400JWTKD, EO000400JWTKV, EO000800JWTKA, EO001600JWTKC Drives	cp040759.exe	MO001920JWW WV	HPD7 (B)	HPD7	更新
877	Online HDD/SDD Flash Component for Windows (x64) - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV, and VO3840JFDHA Drives	cp042221.exe	VO0480JFDGT	HPD8	HPD8	更新
878	Online HDD/SDD Flash Component for Windows (x64) - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV, and VO3840JFDHA Drives	cp042221.exe	VO0960JFDGU	HPD8	HPD8	更新
879	Online HDD/SDD Flash Component for Windows (x64) - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV, and VO3840JFDHA Drives	cp042221.exe	VO1920JFDGV	HPD8	HPD8	更新
880	Online HDD/SDD Flash Component for Windows (x64) - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV, and VO3840JFDHA Drives	cp042221.exe	VO3840JFDHA	HPD8	HPD8	更新

881	Online HDD/SDD Flash Component for Windows (x64) - VO1920JEUQQ Drives	cp040431.exe	VO1920JEUQQ	HPD3 (D)	HPD3	更新
882	Online HDD/SSD Flash Component for Linux (x64) - EG001800JWJNR and EG002400JWJNT Drives	firmware-hdd-b1c9eaf74c-HPD4-3.1.x86_64.rpm	EG001800JWJNR	HPD4 (C)	HPD4	更新
883	Online HDD/SSD Flash Component for Linux (x64) - EG001800JWJNR and EG002400JWJNT Drives	firmware-hdd-b1c9eaf74c-HPD4-3.1.x86_64.rpm	EG002400JWJNT	HPD4 (C)	HPD4	更新

## 6.2.16 Firmware - SATA Storage Disk

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
884	Online HDD/SDD Flash Component for ESXi - MB001000GWCBC and MB002000GWCBD Drives	CP040784.zip	MB001000GWCBC	HPG6 (B)	HPG6	更新
885	Online HDD/SDD Flash Component for ESXi - MB001000GWCBC and MB002000GWCBD Drives	CP040784.zip	MB002000GWCBD	HPG6 (B)	HPG6	更新
886	Online HDD/SDD Flash Component for ESXi - MB001000GWFVK and MB002000GFWL Drives	CP040785.zip	MB001000GWFVK	HPG6 (B)	HPG6	更新
887	Online HDD/SDD Flash Component for ESXi - MB001000GWFVK and MB002000GFWL Drives	CP040785.zip	MB002000GFWL	HPG6 (B)	HPG6	更新
888	Online HDD/SDD Flash Component for ESXi - MB001000GWJAN, MB002000GFWFA, MB004000GFWFB Drives	CP040691.zip	MB001000GWJAN	HPG1 (B)	HPG1	更新
889	Online HDD/SDD Flash Component for ESXi - MB001000GWJAN, MB002000GFWFA, MB004000GFWFB Drives	CP040691.zip	MB002000GFWFA	HPG1 (B)	HPG1	更新
890	Online HDD/SDD Flash Component for ESXi - MB001000GWJAN, MB002000GFWFA, MB004000GFWFB Drives	CP040691.zip	MB004000GFWFB	HPG1 (B)	HPG1	更新
891	Online HDD/SDD Flash Component for ESXi - MB014000GWRTN, MB012000GWRTL and MB010000GWRTK Drives	CP041453.zip	MB014000GWRTN	HPG2 (B)	HPG2	更新
892	Online HDD/SDD Flash Component for ESXi - MB014000GWRTN, MB012000GWRTL and MB010000GWRTK Drives	CP041453.zip	MB012000GWRTL	HPG2 (B)	HPG2	更新
893	Online HDD/SDD Flash Component for ESXi - MB014000GWRTN, MB012000GWRTL and MB010000GWRTK Drives	CP041453.zip	MB010000GWRTK	HPG2 (B)	HPG2	更新

894	Online HDD/SDD Flash Component for ESXi - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA, and MB4000GDUPB Drives	CP040506.zip	MB1000GDUNU	HPG4 (G)	HPG4	更新
895	Online HDD/SDD Flash Component for ESXi - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA, and MB4000GDUPB Drives	CP040506.zip	MB2000GDUNV	HPG4 (G)	HPG4	更新
896	Online HDD/SDD Flash Component for ESXi - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA, and MB4000GDUPB Drives	CP040506.zip	MB3000GDUPA	HPG4 (G)	HPG4	更新
897	Online HDD/SDD Flash Component for ESXi - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA, and MB4000GDUPB Drives	CP040506.zip	MB4000GDUPB	HPG4 (G)	HPG4	更新
898	Online HDD/SDD Flash Component for ESXi - MB4000GEFNA and MB6000GEFNB Drives	CP039421.zip	MB4000GEFNA	HPG6 (E)	HPG6	更新
899	Online HDD/SDD Flash Component for ESXi - MB4000GEFNA and MB6000GEFNB Drives	CP039421.zip	MB6000GEFNB	HPG6 (E)	HPG6	更新
900	Online HDD/SDD Flash Component for ESXi - MB6000GEBTP Drives	CP040543.zip	MB6000GEBTP	HPG4 (E)	HPG4	更新
901	Online HDD/SDD Flash Component for ESXi - MB6000GEXXV Drives	CP040515.zip	MB6000GEXXV	HPG2 (G)	HPG2	更新
902	Online HDD/SDD Flash Component for ESXi - MB6000GVYZB and MB4000GVYZA Drives	CP040687.zip	MB6000GVYZB	HPG4 (B)	HPG4	更新
903	Online HDD/SDD Flash Component for ESXi - MB6000GVYZB and MB4000GVYZA Drives	CP040687.zip	MB4000GVYZA	HPG4 (B)	HPG4	更新
904	Online HDD/SDD Flash Component for ESXi - MB8000GFECR Drives	CP040516.zip	MB8000GFECR	HPG6 (B)	HPG6	更新
905	Online HDD/SDD Flash Component for ESXi - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	CP040670.zip	VK000150GWCNN	HPG1 (B)	HPG1	更新
906	Online HDD/SDD Flash Component for ESXi - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	CP040670.zip	VK000240GWCNP	HPG1 (B)	HPG1	更新



907	Online HDD/SDD Flash Component for ESXi - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	CP040670.zip	VK000480GWCN Q	HPG1 (B)	HPG1	更新
908	Online HDD/SDD Flash Component for ESXi - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	CP040670.zip	VK000960GWCNR	HPG1 (B)	HPG1	更新
909	Online HDD/SDD Flash Component for ESXi - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	CP040670.zip	VK001600GWCNT	HPG1 (B)	HPG1	更新
910	Online HDD/SDD Flash Component for ESXi - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	CP040689.zip	MK000240GWKV K	HPG5 (B)	HPG5	更新
911	Online HDD/SDD Flash Component for ESXi - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	CP040689.zip	MK000480GWJPN	HPG5 (B)	HPG5	更新
912	Online HDD/SDD Flash Component for ESXi - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	CP040689.zip	MK000960GWJPP	HPG5 (B)	HPG5	更新
913	Online HDD/SDD Flash Component for ESXi - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	CP040689.zip	MK001920GWJPPQ	HPG5 (B)	HPG5	更新

914	Online HDD/SDD Flash Component for ESXi - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	CP040689.zip	VK000240GWJPD	HPG5 (B)	HPG5	更新
915	Online HDD/SDD Flash Component for ESXi - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	CP040689.zip	VK000480GWJPE	HPG5 (B)	HPG5	更新
916	Online HDD/SDD Flash Component for ESXi - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	CP040689.zip	VK000960GWJPF	HPG5 (B)	HPG5	更新
917	Online HDD/SDD Flash Component for ESXi - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	CP040689.zip	VK001920GWJPH	HPG5 (B)	HPG5	更新
918	Online HDD/SDD Flash Component for ESXi - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	CP040689.zip	VK003840GWJPK	HPG5 (B)	HPG5	更新
919	Online HDD/SDD Flash Component for ESXi - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU, VK003840GWSRV Drives	CP041313.zip	VK000240GWSRQ	HPG2 (B)	HPG2	更新

920	Online HDD/SDD Flash Component for ESXi - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU, VK003840GWSRV Drives	CP041313.zip	VK000480GWSRR	HPG2 (B)	HPG2	更新
921	Online HDD/SDD Flash Component for ESXi - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU, VK003840GWSRV Drives	CP041313.zip	VK000960GWSRT	HPG2 (B)	HPG2	更新
922	Online HDD/SDD Flash Component for ESXi - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU, VK003840GWSRV Drives	CP041313.zip	VK001920GWSRU	HPG2 (B)	HPG2	更新
923	Online HDD/SDD Flash Component for ESXi - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU, VK003840GWSRV Drives	CP041313.zip	VK003840GWSRV	HPG2 (B)	HPG2	更新
924	Online HDD/SDD Flash Component for ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTT, MK001920GWTTT and MK003840GWTTT Drives	CP040790.zip	VK000240GWTSV	HPG3 (B)	HPG3	更新
925	Online HDD/SDD Flash Component for ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTT, MK001920GWTTT and MK003840GWTTT Drives	CP040790.zip	VK000480GWTTA	HPG3 (B)	HPG3	更新
926	Online HDD/SDD Flash Component for ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTT, MK001920GWTTT and MK003840GWTTT Drives	CP040790.zip	VK000960GWTTB	HPG3 (B)	HPG3	更新

927	Online HDD/SDD Flash Component for ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTN Drives	CP040790.zip	VK001920GWTTTC	HPG3 (B)	HPG3	更新
928	Online HDD/SDD Flash Component for ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTN Drives	CP040790.zip	VK003840GWTTD	HPG3 (B)	HPG3	更新
929	Online HDD/SDD Flash Component for ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTN Drives	CP040790.zip	MK000480GWTT H	HPG3 (B)	HPG3	更新
930	Online HDD/SDD Flash Component for ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTN Drives	CP040790.zip	MK000960GWTTK	HPG3 (B)	HPG3	更新
931	Online HDD/SDD Flash Component for ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTN Drives	CP040790.zip	MK001920GWTTT	HPG3 (B)	HPG3	更新
932	Online HDD/SDD Flash Component for ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTN Drives	CP040790.zip	MK003840GWTT N	HPG3 (B)	HPG3	更新

933	Online HDD/SDD Flash Component for ESXi - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL, and VK3840GFDKN Drives	CP040518.zip	VK0120GFDKE	HPG1 (F)	HPG1	更新
934	Online HDD/SDD Flash Component for ESXi - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL, and VK3840GFDKN Drives	CP040518.zip	VK0240GFDKF	HPG1 (F)	HPG1	更新
935	Online HDD/SDD Flash Component for ESXi - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL, and VK3840GFDKN Drives	CP040518.zip	VK0480GFDKH	HPG1 (F)	HPG1	更新
936	Online HDD/SDD Flash Component for ESXi - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL, and VK3840GFDKN Drives	CP040518.zip	VK0960GFDKK	HPG1 (F)	HPG1	更新
937	Online HDD/SDD Flash Component for ESXi - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL, and VK3840GFDKN Drives	CP040518.zip	VK1920GFDKL	HPG1 (F)	HPG1	更新
938	Online HDD/SDD Flash Component for ESXi - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL, and VK3840GFDKN Drives	CP040518.zip	VK3840GFDKN	HPG1 (F)	HPG1	更新
939	Online HDD/SDD Flash Component for ESXi - VK0240GEPQN, VK0480GEPQP, and VK0960GEPQQ Drives	CP040528.zip	VK0240GEPQN	HPG1 (F)	HPG1	更新
940	Online HDD/SDD Flash Component for ESXi - VK0240GEPQN, VK0480GEPQP, and VK0960GEPQQ Drives	CP040528.zip	VK0480GEPQP	HPG1 (F)	HPG1	更新
941	Online HDD/SDD Flash Component for ESXi - VK0240GEPQN, VK0480GEPQP, and VK0960GEPQQ Drives	CP040528.zip	VK0960GEPQQ	HPG1 (F)	HPG1	更新

942	Online HDD/SDD Flash Component for Linux (x64) - EK000200GWEPD, EK000400GWEPE, EK000800GWEPP and EK001600GWEPH Drives	firmware-hdd-5bf9355926-HPG3-4.1.x86_64.rpm	EK000200GWEPD	HPG3 (D)	HPG3	更新
943	Online HDD/SDD Flash Component for Linux (x64) - EK000200GWEPD, EK000400GWEPE, EK000800GWEPP and EK001600GWEPH Drives	firmware-hdd-5bf9355926-HPG3-4.1.x86_64.rpm	EK000400GWEPE	HPG3 (D)	HPG3	更新
944	Online HDD/SDD Flash Component for Linux (x64) - EK000200GWEPD, EK000400GWEPE, EK000800GWEPP and EK001600GWEPH Drives	firmware-hdd-5bf9355926-HPG3-4.1.x86_64.rpm	EK000800GWEPP	HPG3 (D)	HPG3	更新
945	Online HDD/SDD Flash Component for Linux (x64) - EK000200GWEPD, EK000400GWEPE, EK000800GWEPP and EK001600GWEPH Drives	firmware-hdd-5bf9355926-HPG3-4.1.x86_64.rpm	EK001600GWEPH	HPG3 (D)	HPG3	更新
946	Online HDD/SDD Flash Component for Linux (x64) - MB001000GWCBC and MB002000GWCBD Drives	firmware-hdd-68b12e54d2-HPG6-3.1.x86_64.rpm	MB001000GWCBC	HPG6 (C)	HPG6	更新
947	Online HDD/SDD Flash Component for Linux (x64) - MB001000GWCBC and MB002000GWCBD Drives	firmware-hdd-68b12e54d2-HPG6-3.1.x86_64.rpm	MB002000GWCBD	HPG6 (C)	HPG6	更新
948	Online HDD/SDD Flash Component for Linux (x64) - MB001000GWFVK and MB002000GWFVL Drives	firmware-hdd-bfc4af697b-HPG6-2.1.x86_64.rpm	MB001000GWFVK	HPG6 (B)	HPG6	更新
949	Online HDD/SDD Flash Component for Linux (x64) - MB001000GWFVK and MB002000GWFVL Drives	firmware-hdd-bfc4af697b-HPG6-2.1.x86_64.rpm	MB002000GWFVL	HPG6 (B)	HPG6	更新
950	Online HDD/SDD Flash Component for Linux (x64) - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives	firmware-hdd-d39e7a7e75-HPG1-3.1.x86_64.rpm	MB001000GWJAN	HPG1 (C)	HPG1	更新
951	Online HDD/SDD Flash Component for Linux (x64) - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives	firmware-hdd-d39e7a7e75-HPG1-3.1.x86_64.rpm	MB002000GWFWA	HPG1 (C)	HPG1	更新
952	Online HDD/SDD Flash Component for Linux (x64) - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives	firmware-hdd-d39e7a7e75-HPG1-3.1.x86_64.rpm	MB004000GWFWB	HPG1 (C)	HPG1	更新
953	Online HDD/SDD Flash Component for Linux (x64) - MB002000GWFGH and MB001000GWFGF Drives	firmware-hdd-0b575b5895-HPG3-5.1.x86_64.rpm	MB002000GWFGH	HPG3 (E)	HPG3	更新
954	Online HDD/SDD Flash Component for Linux (x64) - MB002000GWFGH and MB001000GWFGF Drives	firmware-hdd-0b575b5895-HPG3-5.1.x86_64.rpm	MB001000GWFGF	HPG3 (E)	HPG3	更新
955	Online HDD/SDD Flash Component for Linux (x64) - MB004000GWKGV Drive	firmware-hdd-ca21e169e2-HPG1-2.1.x86_64.rpm	MB004000GWKGV	HPG1 (B)	HPG1	更新

956	Online HDD/SDD Flash Component for Linux (x64) - MB006000GWBXQ and MB008000GWBXL Drives	firmware-hdd-a1fd19f9ca-HPG8-3.1.x86_64.rpm	MB006000GWBXQ	HPG8 (C)	HPG8	更新
957	Online HDD/SDD Flash Component for Linux (x64) - MB006000GWBXQ and MB008000GWBXL Drives	firmware-hdd-a1fd19f9ca-HPG8-3.1.x86_64.rpm	MB008000GWBXL	HPG8 (C)	HPG8	更新
958	Online HDD/SDD Flash Component for Linux (x64) - MB006000GWKGR Drive	firmware-hdd-7f2a26e6d0-HPG1-2.1.x86_64.rpm	MB006000GWKGR	HPG1 (B)	HPG1	更新
959	Online HDD/SDD Flash Component for Linux (x64) - MB008000GWRTC Drive	firmware-hdd-82894b9e0a-HPG1-2.1.x86_64.rpm	MB008000GWRTC	HPG1 (B)	HPG1	更新
960	Online HDD/SDD Flash Component for Linux (x64) - MB010000GWAYN and MB008000GWAYL Drives	firmware-hdd-cc819d4bfff-HPG5-4.1.x86_64.rpm	MB010000GWAYN	HPG5 (D)	HPG5	更新
961	Online HDD/SDD Flash Component for Linux (x64) - MB010000GWAYN and MB008000GWAYL Drives	firmware-hdd-cc819d4bfff-HPG5-4.1.x86_64.rpm	MB008000GWAYL	HPG5 (D)	HPG5	更新
962	Online HDD/SDD Flash Component for Linux (x64) - MB012000GWDFF Drives	firmware-hdd-059b8654a6-HPG2-4.1.x86_64.rpm	MB012000GWDFF	HPG2 (D)	HPG2	更新
963	Online HDD/SDD Flash Component for Linux (x64) - MB014000GWRTN, MB012000GWRTL and MB010000GWRTK Drives	firmware-hdd-6b7ce3da0e-HPG2-3.1.x86_64.rpm	MB014000GWRTN	HPG2 (C)	HPG2	更新
964	Online HDD/SDD Flash Component for Linux (x64) - MB014000GWRTN, MB012000GWRTL and MB010000GWRTK Drives	firmware-hdd-6b7ce3da0e-HPG2-3.1.x86_64.rpm	MB012000GWRTL	HPG2 (C)	HPG2	更新
965	Online HDD/SDD Flash Component for Linux (x64) - MB014000GWRTN, MB012000GWRTL and MB010000GWRTK Drives	firmware-hdd-6b7ce3da0e-HPG2-3.1.x86_64.rpm	MB010000GWRTK	HPG2 (C)	HPG2	更新
966	Online HDD/SDD Flash Component for Linux (x64) - MB014000GWUDA Drive	firmware-hdd-41cdb1c9da-HPG2-2.1.x86_64.rpm	MB014000GWUDA	HPG2 (B)	HPG2	更新
967	Online HDD/SDD Flash Component for Linux (x64) - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA, and MB4000GDUPB Drives	firmware-hdd-3ab4c70e64-HPG4-7.1.x86_64.rpm	MB1000GDUNU	HPG4 (G)	HPG4	更新
968	Online HDD/SDD Flash Component for Linux (x64) - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA, and MB4000GDUPB Drives	firmware-hdd-3ab4c70e64-HPG4-7.1.x86_64.rpm	MB2000GDUNV	HPG4 (G)	HPG4	更新
969	Online HDD/SDD Flash Component for Linux (x64) - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA, and MB4000GDUPB Drives	firmware-hdd-3ab4c70e64-HPG4-7.1.x86_64.rpm	MB3000GDUPA	HPG4 (G)	HPG4	更新

970	Online HDD/SDD Flash Component for Linux (x64) - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA, and MB4000GDUPB Drives	firmware-hdd-3ab4c70e64-HPG4-7.1.x86_64.rpm	MB4000GDUPB	HPG4 (G)	HPG4	更新
971	Online HDD/SDD Flash Component for Linux (x64) - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH, and MB4000GVYZK Drives	firmware-hdd-0a7010918e-HPG4-7.1.x86_64.rpm	MB1000GVYZE	HPG4 (G)	HPG4	更新
972	Online HDD/SDD Flash Component for Linux (x64) - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH, and MB4000GVYZK Drives	firmware-hdd-0a7010918e-HPG4-7.1.x86_64.rpm	MB2000GVYZF	HPG4 (G)	HPG4	更新
973	Online HDD/SDD Flash Component for Linux (x64) - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH, and MB4000GVYZK Drives	firmware-hdd-0a7010918e-HPG4-7.1.x86_64.rpm	MB3000GVYZH	HPG4 (G)	HPG4	更新
974	Online HDD/SDD Flash Component for Linux (x64) - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH, and MB4000GVYZK Drives	firmware-hdd-0a7010918e-HPG4-7.1.x86_64.rpm	MB4000GVYZK	HPG4 (G)	HPG4	更新
975	Online HDD/SDD Flash Component for Linux (x64) - MB2000GCWLT, MB3000GCWLU, and MB4000GCWLV Drives	firmware-hdd-2e70ce7412-HPG4-7.1.x86_64.rpm	MB2000GCWLT	HPG4 (G)	HPG4	更新
976	Online HDD/SDD Flash Component for Linux (x64) - MB2000GCWLT, MB3000GCWLU, and MB4000GCWLV Drives	firmware-hdd-2e70ce7412-HPG4-7.1.x86_64.rpm	MB3000GCWLU	HPG4 (G)	HPG4	更新
977	Online HDD/SDD Flash Component for Linux (x64) - MB2000GCWLT, MB3000GCWLU, and MB4000GCWLV Drives	firmware-hdd-2e70ce7412-HPG4-7.1.x86_64.rpm	MB4000GCWLV	HPG4 (G)	HPG4	更新
978	Online HDD/SDD Flash Component for Linux (x64) - MB2000GFEMH and MB4000GFEMK Drives	firmware-hdd-70e3962f98-HPG6-6.1.x86_64.rpm	MB2000GFEMH	HPG6 (F)	HPG6	更新
979	Online HDD/SDD Flash Component for Linux (x64) - MB2000GFEMH and MB4000GFEMK Drives	firmware-hdd-70e3962f98-HPG6-6.1.x86_64.rpm	MB4000GFEMK	HPG6 (F)	HPG6	更新
980	Online HDD/SDD Flash Component for Linux (x64) - MB4000GEFNA and MB6000GEFNB Drives	firmware-hdd-40277d55d3-HPG6-7.1.x86_64.rpm	MB4000GEFNA	HPG6 (G)	HPG6	更新
981	Online HDD/SDD Flash Component for Linux (x64) - MB4000GEFNA and MB6000GEFNB Drives	firmware-hdd-40277d55d3-HPG6-7.1.x86_64.rpm	MB6000GEFNB	HPG6 (G)	HPG6	更新
982	Online HDD/SDD Flash Component for Linux (x64) - MB4000GEQNH and MB6000GEQNK Drives	firmware-hdd-bfc95f0628-HPGB-6.1.x86_64.rpm	MB4000GEQNH	HPGB (F)	HPGB	更新



983	Online HDD/SDD Flash Component for Linux (x64) - MB4000GEQNH and MB6000GEQNK Drives	firmware-hdd-bfc95f0628-HPGB-6.1.x86_64.rpm	MB6000GEQNK	HPGB (F)	HPGB	更新
984	Online HDD/SDD Flash Component for Linux (x64) - MB6000GEBTP Drives	firmware-hdd-3243fcea0-HPG4-6.1.x86_64.rpm	MB6000GEBTP	HPG4 (F)	HPG4	更新
985	Online HDD/SDD Flash Component for Linux (x64) - MB6000GEQUT and MB8000GEQUU Drives	firmware-hdd-1d7f19120b-HPGB-6.1.x86_64.rpm	MB6000GEQUT	HPGB (F)	HPGB	更新
986	Online HDD/SDD Flash Component for Linux (x64) - MB6000GEQUT and MB8000GEQUU Drives	firmware-hdd-1d7f19120b-HPGB-6.1.x86_64.rpm	MB8000GEQUU	HPGB (F)	HPGB	更新
987	Online HDD/SDD Flash Component for Linux (x64) - MB6000GEXXV Drives	firmware-hdd-a629fcea59-HPG2-7.1.x86_64.rpm	MB6000GEXXV	HPG2 (G)	HPG2	更新
988	Online HDD/SDD Flash Component for Linux (x64) - MB6000GVYYU Drives	firmware-hdd-bdc37cb37f-HPG2-6.1.x86_64.rpm	MB6000GVYYU	HPG2 (F)	HPG2	更新
989	Online HDD/SDD Flash Component for Linux (x64) - MB6000GVYZB and MB4000GVYZA Drives	firmware-hdd-0a7d4aa47f-HPG4-3.1.x86_64.rpm	MB6000GVYZB	HPG4 (C)	HPG4	更新
990	Online HDD/SDD Flash Component for Linux (x64) - MB6000GVYZB and MB4000GVYZA Drives	firmware-hdd-0a7d4aa47f-HPG4-3.1.x86_64.rpm	MB4000GVYZA	HPG4 (C)	HPG4	更新
991	Online HDD/SDD Flash Component for Linux (x64) - MB8000GFECR Drives	firmware-hdd-6d922fca8-HPG6-3.1.x86_64.rpm	MB8000GFECR	HPG6 (C)	HPG6	更新
992	Online HDD/SDD Flash Component for Linux (x64) - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFCB Drives	firmware-hdd-7677644a25-HPG3-4.1.x86_64.rpm	MK000240GWCEU	HPG3 (D)	HPG3	更新
993	Online HDD/SDD Flash Component for Linux (x64) - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFCB Drives	firmware-hdd-7677644a25-HPG3-4.1.x86_64.rpm	MK000480GWCEV	HPG3 (D)	HPG3	更新
994	Online HDD/SDD Flash Component for Linux (x64) - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFCB Drives	firmware-hdd-7677644a25-HPG3-4.1.x86_64.rpm	MK000960GWCFA	HPG3 (D)	HPG3	更新
995	Online HDD/SDD Flash Component for Linux (x64) - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFCB Drives	firmware-hdd-7677644a25-HPG3-4.1.x86_64.rpm	MK001920GWCFCB	HPG3 (D)	HPG3	更新
996	Online HDD/SDD Flash Component for Linux (x64) - MK003840GWWHITE Drives	firmware-hdd-ac20a1e1c6-HPG6-2.1.x86_64.rpm	MK003840GWWHITE	HPG6 (B)	HPG6	更新
997	Online HDD/SDD Flash Component for Linux (x64) - MK0960GECQK Drives	firmware-hdd-3e34285be7-HPG3-8.1.x86_64.rpm	MK0960GECQK	HPG3 (H)	HPG3	更新
998	Online HDD/SDD Flash Component for Linux (x64) - MM1000GEFQV and MM2000GEFRA Drives	firmware-hdd-ec908c3650-HPG8-5.1.x86_64.rpm	MM1000GEFQV	HPG8 (E)	HPG8	更新

999	Online HDD/SDD Flash Component for Linux (x64) - MM1000GEFQV and MM2000GEFRA Drives	firmware-hdd-ec908c3650-HPG8-5.1.x86_64.rpm	MM2000GEFRA	HPG8 (E)	HPG8	更新
1000	Online HDD/SDD Flash Component for Linux (x64) - MM1000GFJTE Drives	firmware-hdd-95af9a555e-HPG5-3.1.x86_64.rpm	MM1000GFJTE	HPG5 (C)	HPG5	更新
1001	Online HDD/SDD Flash Component for Linux (x64) - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives	firmware-hdd-9196d4f720-HPGE-2.1.x86_64.rpm	MR000240GWFLU	HPGE (B)	HPGE	更新
1002	Online HDD/SDD Flash Component for Linux (x64) - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives	firmware-hdd-9196d4f720-HPGE-2.1.x86_64.rpm	MR000480GWFLV	HPGE (B)	HPGE	更新
1003	Online HDD/SDD Flash Component for Linux (x64) - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives	firmware-hdd-9196d4f720-HPGE-2.1.x86_64.rpm	VR000480GWFMD	HPGE (B)	HPGE	更新
1004	Online HDD/SDD Flash Component for Linux (x64) - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives	firmware-hdd-9196d4f720-HPGE-2.1.x86_64.rpm	MR000960GWFMA	HPGE (B)	HPGE	更新
1005	Online HDD/SDD Flash Component for Linux (x64) - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives	firmware-hdd-9196d4f720-HPGE-2.1.x86_64.rpm	VR000960GWFME	HPGE (B)	HPGE	更新
1006	Online HDD/SDD Flash Component for Linux (x64) - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives	firmware-hdd-9196d4f720-HPGE-2.1.x86_64.rpm	MR001920GWFMB	HPGE (B)	HPGE	更新

1007	Online HDD/SDD Flash Component for Linux (x64) - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives	firmware-hdd-9196d4f720-HPGE-2.1.x86_64.rpm	VR001920GWFMC	HPGE (B)	HPGE	更新
1008	Online HDD/SDD Flash Component for Linux (x64) - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	firmware-hdd-6e3845def5-HPG1-3.1.x86_64.rpm	VK000150GWCNN	HPG1 (C)	HPG1	更新
1009	Online HDD/SDD Flash Component for Linux (x64) - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	firmware-hdd-6e3845def5-HPG1-3.1.x86_64.rpm	VK000240GWCNP	HPG1 (C)	HPG1	更新
1010	Online HDD/SDD Flash Component for Linux (x64) - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	firmware-hdd-6e3845def5-HPG1-3.1.x86_64.rpm	VK000480GWCNQ	HPG1 (C)	HPG1	更新
1011	Online HDD/SDD Flash Component for Linux (x64) - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	firmware-hdd-6e3845def5-HPG1-3.1.x86_64.rpm	VK000960GWCNR	HPG1 (C)	HPG1	更新
1012	Online HDD/SDD Flash Component for Linux (x64) - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	firmware-hdd-6e3845def5-HPG1-3.1.x86_64.rpm	VK001600GWCNT	HPG1 (C)	HPG1	更新
1013	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWCFD, VK000480GWCFE, VK000960GWCFE, VK001920GWCFH and VK003840GWCFK Drives.	firmware-hdd-f42438de3d-HPG3-4.1.x86_64.rpm	VK000480GWCFE	HPG3 (D)	HPG3	更新
1014	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWCFD, VK000480GWCFE, VK000960GWCFE, VK001920GWCFH and VK003840GWCFK Drives.	firmware-hdd-f42438de3d-HPG3-4.1.x86_64.rpm	VK000960GWCFE	HPG3 (D)	HPG3	更新
1015	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWCFD, VK000480GWCFE, VK000960GWCFE, VK001920GWCFH and VK003840GWCFK Drives.	firmware-hdd-f42438de3d-HPG3-4.1.x86_64.rpm	VK000240GWCFD	HPG3 (D)	HPG3	更新

1016	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWCFD, VK000480GWCFE, VK000960GWCFE, VK001920GWCFH and VK003840GWCFK Drives.	firmware-hdd-f42438de3d-HPG3-4.1.x86_64.rpm	VK001920GWCFH	HPG3 (D)	HPG3	更新
1017	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWCFD, VK000480GWCFE, VK000960GWCFE, VK001920GWCFH and VK003840GWCFK Drives.	firmware-hdd-f42438de3d-HPG3-4.1.x86_64.rpm	VK003840GWCFK	HPG3 (D)	HPG3	更新
1018	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	firmware-hdd-3db7640485-HPGE-2.1.x86_64.rpm	VK000240GWEZB	HPGE (B)	HPGE	更新
1019	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	firmware-hdd-3db7640485-HPGE-2.1.x86_64.rpm	VK000480GWEZC	HPGE (B)	HPGE	更新
1020	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	firmware-hdd-3db7640485-HPGE-2.1.x86_64.rpm	VK000960GWEZD	HPGE (B)	HPGE	更新
1021	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	firmware-hdd-3db7640485-HPGE-2.1.x86_64.rpm	VK001920GWEZE	HPGE (B)	HPGE	更新
1022	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	firmware-hdd-3db7640485-HPGE-2.1.x86_64.rpm	MK000240GWEZF	HPGE (B)	HPGE	更新

1023	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	firmware-hdd-3db7640485-HPGE-2.1.x86_64.rpm	MK000480GWEZH	HPGE (B)	HPGE	更新
1024	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	firmware-hdd-3db7640485-HPGE-2.1.x86_64.rpm	MK000960GWEZK	HPGE (B)	HPGE	更新
1025	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	firmware-hdd-3db7640485-HPGE-2.1.x86_64.rpm	MK001920GWHRU	HPGE (B)	HPGE	更新
1026	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	firmware-hdd-aef2a690c9-HPG5-3.1.x86_64.rpm	MK000240GWKVK	HPG5 (C)	HPG5	更新
1027	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	firmware-hdd-aef2a690c9-HPG5-3.1.x86_64.rpm	MK000480GWJPN	HPG5 (C)	HPG5	更新
1028	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	firmware-hdd-aef2a690c9-HPG5-3.1.x86_64.rpm	MK000960GWJPP	HPG5 (C)	HPG5	更新

1029	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	firmware-hdd-aef2a690c9-HPG5-3.1.x86_64.rpm	MK001920GWJPPQ	HPG5 (C)	HPG5	更新
1030	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	firmware-hdd-aef2a690c9-HPG5-3.1.x86_64.rpm	VK000240GWJPD	HPG5 (C)	HPG5	更新
1031	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	firmware-hdd-aef2a690c9-HPG5-3.1.x86_64.rpm	VK000480GWJPE	HPG5 (C)	HPG5	更新
1032	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	firmware-hdd-aef2a690c9-HPG5-3.1.x86_64.rpm	VK000960GWJPF	HPG5 (C)	HPG5	更新
1033	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	firmware-hdd-aef2a690c9-HPG5-3.1.x86_64.rpm	VK001920GWJPH	HPG5 (C)	HPG5	更新
1034	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	firmware-hdd-aef2a690c9-HPG5-3.1.x86_64.rpm	VK003840GWJPK	HPG5 (C)	HPG5	更新

1035	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives	firmware-hdd-db687966b4-HPG2-2.1.x86_64.rpm	VK000240GWSRQ	HPG2 (B)	HPG2	更新
1036	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives	firmware-hdd-db687966b4-HPG2-2.1.x86_64.rpm	VK000480GWSRR	HPG2 (B)	HPG2	更新
1037	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives	firmware-hdd-db687966b4-HPG2-2.1.x86_64.rpm	VK000960GWSRT	HPG2 (B)	HPG2	更新
1038	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives	firmware-hdd-db687966b4-HPG2-2.1.x86_64.rpm	VK001920GWSRU	HPG2 (B)	HPG2	更新
1039	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives	firmware-hdd-db687966b4-HPG2-2.1.x86_64.rpm	VK003840GWSRV	HPG2 (B)	HPG2	更新
1040	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	firmware-hdd-c566d63ca0-HPG3-3.1.x86_64.rpm	VK000240GWTSV	HPG3 (C)	HPG3	更新
1041	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	firmware-hdd-c566d63ca0-HPG3-3.1.x86_64.rpm	VK000480GWTTA	HPG3 (C)	HPG3	更新

1042	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	firmware-hdd-c566d63ca0-HPG3-3.1.x86_64.rpm	VK000960GWTTB	HPG3 (C)	HPG3	更新
1043	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	firmware-hdd-c566d63ca0-HPG3-3.1.x86_64.rpm	VK001920GWTTTC	HPG3 (C)	HPG3	更新
1044	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	firmware-hdd-c566d63ca0-HPG3-3.1.x86_64.rpm	VK003840GWTTD	HPG3 (C)	HPG3	更新
1045	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	firmware-hdd-c566d63ca0-HPG3-3.1.x86_64.rpm	MK000480GWTT H	HPG3 (C)	HPG3	更新
1046	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	firmware-hdd-c566d63ca0-HPG3-3.1.x86_64.rpm	MK000960GWTTK	HPG3 (C)	HPG3	更新
1047	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	firmware-hdd-c566d63ca0-HPG3-3.1.x86_64.rpm	MK001920GWTTL	HPG3 (C)	HPG3	更新



1048	Online HDD/SDD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	firmware-hdd-c566d63ca0-HPG3-3.1.x86_64.rpm	MK003840GWTTN	HPG3 (C)	HPG3	更新
1049	Online HDD/SDD Flash Component for Linux (x64) - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH, MK001920GWUGK Drives	firmware-hdd-9e87eecb3f-HPG2-3.1.x86_64.rpm	VK000480GWSXF	HPG2 (C)	HPG2	更新
1050	Online HDD/SDD Flash Component for Linux (x64) - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH, MK001920GWUGK Drives	firmware-hdd-9e87eecb3f-HPG2-3.1.x86_64.rpm	VK000960GWSXH	HPG2 (C)	HPG2	更新
1051	Online HDD/SDD Flash Component for Linux (x64) - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH, MK001920GWUGK Drives	firmware-hdd-9e87eecb3f-HPG2-3.1.x86_64.rpm	VK001920GWSXK	HPG2 (C)	HPG2	更新
1052	Online HDD/SDD Flash Component for Linux (x64) - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH, MK001920GWUGK Drives	firmware-hdd-9e87eecb3f-HPG2-3.1.x86_64.rpm	MK000480GWUGF	HPG2 (C)	HPG2	更新
1053	Online HDD/SDD Flash Component for Linux (x64) - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH, MK001920GWUGK Drives	firmware-hdd-9e87eecb3f-HPG2-3.1.x86_64.rpm	MK000960GWUGH	HPG2 (C)	HPG2	更新
1054	Online HDD/SDD Flash Component for Linux (x64) - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH, MK001920GWUGK Drives	firmware-hdd-9e87eecb3f-HPG2-3.1.x86_64.rpm	MK001920GWUGK	HPG2 (C)	HPG2	更新
1055	Online HDD/SDD Flash Component for Linux (x64) - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD Drives	firmware-hdd-492a9952f6-HPG1-2.1.x86_64.rpm	VK000480GWTHA	HPG1 (B)	HPG1	更新

1056	Online HDD/SDD Flash Component for Linux (x64) - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD Drives	firmware-hdd-492a9952f6-HPG1-2.1.x86_64.rpm	VK000960GWTHB	HPG1 (B)	HPG1	更新
1057	Online HDD/SDD Flash Component for Linux (x64) - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD Drives	firmware-hdd-492a9952f6-HPG1-2.1.x86_64.rpm	VK001920GWTHC	HPG1 (B)	HPG1	更新
1058	Online HDD/SDD Flash Component for Linux (x64) - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD Drives	firmware-hdd-492a9952f6-HPG1-2.1.x86_64.rpm	VK003840GWTHD	HPG1 (B)	HPG1	更新
1059	Online HDD/SDD Flash Component for Linux (x64) - VK003840GWSXL Drive	firmware-hdd-d1cf327bc4-HPG2-3.1.x86_64.rpm	VK003840GWSXL	HPG2 (C)	HPG2	更新
1060	Online HDD/SDD Flash Component for Linux (x64) - VK007680GWSXN Drive	firmware-hdd-b460823f70-HPG2-3.1.x86_64.rpm	VK007680GWSXN	HPG2 (C)	HPG2	更新
1061	Online HDD/SDD Flash Component for Linux (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYK Drives	firmware-hdd-ee2b63de1d-HPG5-2.1.x86_64.rpm	VK1600GEYJU	HPG5 (B)	HPG5	更新
1062	Online HDD/SDD Flash Component for Linux (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYK Drives	firmware-hdd-ee2b63de1d-HPG5-2.1.x86_64.rpm	VK0800GEYJT	HPG5 (B)	HPG5	更新
1063	Online HDD/SDD Flash Component for Linux (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYK Drives	firmware-hdd-ee2b63de1d-HPG5-2.1.x86_64.rpm	VK0480GEYJR	HPG5 (B)	HPG5	更新

1064	Online HDD/SDD Flash Component for Linux (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYK Drives	firmware-hdd-ee2b63de1d-HPG5-2.1.x86_64.rpm	VK0240GEYJQ	HPG5 (B)	HPG5	更新
1065	Online HDD/SDD Flash Component for Linux (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYK Drives	firmware-hdd-ee2b63de1d-HPG5-2.1.x86_64.rpm	VK0120GEYJP	HPG5 (B)	HPG5	更新
1066	Online HDD/SDD Flash Component for Linux (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYK Drives	firmware-hdd-ee2b63de1d-HPG5-2.1.x86_64.rpm	VK0080GEYJN	HPG5 (B)	HPG5	更新
1067	Online HDD/SDD Flash Component for Linux (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYK Drives	firmware-hdd-ee2b63de1d-HPG5-2.1.x86_64.rpm	LK0200GEYMR	HPG5 (B)	HPG5	更新
1068	Online HDD/SDD Flash Component for Linux (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYK Drives	firmware-hdd-ee2b63de1d-HPG5-2.1.x86_64.rpm	LK0480GFJSK	HPG5 (B)	HPG5	更新

1069	Online HDD/SDD Flash Component for Linux (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYK Drives	firmware-hdd-ee2b63de1d-HPG5-2.1.x86_64.rpm	LK0800GEYMU	HPG5 (B)	HPG5	更新
1070	Online HDD/SDD Flash Component for Linux (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYK Drives	firmware-hdd-ee2b63de1d-HPG5-2.1.x86_64.rpm	LK1600GEYMV	HPG5 (B)	HPG5	更新
1071	Online HDD/SDD Flash Component for Linux (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYK Drives	firmware-hdd-ee2b63de1d-HPG5-2.1.x86_64.rpm	MK0200GEYKC	HPG5 (B)	HPG5	更新
1072	Online HDD/SDD Flash Component for Linux (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYK Drives	firmware-hdd-ee2b63de1d-HPG5-2.1.x86_64.rpm	MK0400GEYKD	HPG5 (B)	HPG5	更新
1073	Online HDD/SDD Flash Component for Linux (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYK Drives	firmware-hdd-ee2b63de1d-HPG5-2.1.x86_64.rpm	MK0800GEYKE	HPG5 (B)	HPG5	更新

1074	Online HDD/SDD Flash Component for Linux (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYK Drives	firmware-hdd-ee2b63de1d-HPG5-2.1.x86_64.rpm	MK1200GEYKF	HPG5 (B)	HPG5	更新
1075	Online HDD/SDD Flash Component for Linux (x64) - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL, and VK3840GFDKN Drives	firmware-hdd-a2d4b5c742-HPG1-7.1.x86_64.rpm	VK0120GFDKE	HPG1 (G)	HPG1	更新
1076	Online HDD/SDD Flash Component for Linux (x64) - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL, and VK3840GFDKN Drives	firmware-hdd-a2d4b5c742-HPG1-7.1.x86_64.rpm	VK0240GFDKF	HPG1 (G)	HPG1	更新
1077	Online HDD/SDD Flash Component for Linux (x64) - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL, and VK3840GFDKN Drives	firmware-hdd-a2d4b5c742-HPG1-7.1.x86_64.rpm	VK0480GFDKH	HPG1 (G)	HPG1	更新
1078	Online HDD/SDD Flash Component for Linux (x64) - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL, and VK3840GFDKN Drives	firmware-hdd-a2d4b5c742-HPG1-7.1.x86_64.rpm	VK0960GFDKK	HPG1 (G)	HPG1	更新
1079	Online HDD/SDD Flash Component for Linux (x64) - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL, and VK3840GFDKN Drives	firmware-hdd-a2d4b5c742-HPG1-7.1.x86_64.rpm	VK1920GFDKL	HPG1 (G)	HPG1	更新
1080	Online HDD/SDD Flash Component for Linux (x64) - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL, and VK3840GFDKN Drives	firmware-hdd-a2d4b5c742-HPG1-7.1.x86_64.rpm	VK3840GFDKN	HPG1 (G)	HPG1	更新
1081	Online HDD/SDD Flash Component for Linux (x64) - VK0240GEPQN, VK0480GEPQP, and VK0960GEPQQ Drives	firmware-hdd-1a516522d1-HPG1-6.1.x86_64.rpm	VK0240GEPQN	HPG1 (F)	HPG1	更新

1082	Online HDD/SDD Flash Component for Linux (x64) - VK0240GEPQN, VK0480GEPQP, and VK0960GEPQQ Drives	firmware-hdd-1a516522d1-HPG1-6.1.x86_64.rpm	VK0480GEPQP	HPG1 (F)	HPG1	更新
1083	Online HDD/SDD Flash Component for Linux (x64) - VK0240GEPQN, VK0480GEPQP, and VK0960GEPQQ Drives	firmware-hdd-1a516522d1-HPG1-6.1.x86_64.rpm	VK0960GEPQQ	HPG1 (F)	HPG1	更新
1084	Online HDD/SDD Flash Component for Linux (x64) - VR000150GWEPP and VR000480GWEPR Drives	firmware-hdd-b7eb905efe-HPG1-4.1.x86_64.rpm	VR000150GWEPP	HPG1 (D)	HPG1	更新
1085	Online HDD/SDD Flash Component for Linux (x64) - VR000150GWEPP and VR000480GWEPR Drives	firmware-hdd-b7eb905efe-HPG1-4.1.x86_64.rpm	VR000480GWEPR	HPG1 (D)	HPG1	更新
1086	Online HDD/SDD Flash Component for Linux (x64) - XP0032GEFEN, XP0032GDZME, XP0064GEFEP, and XP0064GDZMF Drives	firmware-hdd-f286f98973-HPS8-7.1.x86_64.rpm	XP0032GEFEN	HPS8 (G)	HPS8	更新
1087	Online HDD/SDD Flash Component for Linux (x64) - XP0032GEFEN, XP0032GDZME, XP0064GEFEP, and XP0064GDZMF Drives	firmware-hdd-f286f98973-HPS8-7.1.x86_64.rpm	XP0032GDZME	HPS8 (G)	HPS8	更新
1088	Online HDD/SDD Flash Component for Linux (x64) - XP0032GEFEN, XP0032GDZME, XP0064GEFEP, and XP0064GDZMF Drives	firmware-hdd-f286f98973-HPS8-7.1.x86_64.rpm	XP0064GEFEP	HPS8 (G)	HPS8	更新
1089	Online HDD/SDD Flash Component for Linux (x64) - XP0032GEFEN, XP0032GDZME, XP0064GEFEP, and XP0064GDZMF Drives	firmware-hdd-f286f98973-HPS8-7.1.x86_64.rpm	XP0064GDZMF	HPS8 (G)	HPS8	更新
1090	Online HDD/SDD Flash Component for Linux (x64) - XP0120GFJSL and XP0240GFJSN Drives	firmware-hdd-d355375539-HPS4-7.1.x86_64.rpm	XP0120GFJSL	HPS4 (G)	HPS4	更新
1091	Online HDD/SDD Flash Component for Linux (x64) - XP0120GFJSL and XP0240GFJSN Drives	firmware-hdd-d355375539-HPS4-7.1.x86_64.rpm	XP0240GFJSN	HPS4 (G)	HPS4	更新
1092	Online HDD/SDD Flash Component for VMware ESXi - EK000200GWEPPD, EK000400GWEPE, EK000800GWEPPF and EK001600GWEPPH Drives	CP040680.zip	EK000200GWEPPD	HPG3 (C)	HPG3	更新
1093	Online HDD/SDD Flash Component for VMware ESXi - EK000200GWEPPD, EK000400GWEPE, EK000800GWEPPF and EK001600GWEPPH Drives	CP040680.zip	EK000400GWEPE	HPG3 (C)	HPG3	更新

1094	Online HDD/SDD Flash Component for VMware ESXi - EK000200GWEPD, EK000400GWEPE, EK000800GWEPP and EK001600GWEPPH Drives	CP040680.zip	EK000800GWEPP	HPG3 (C)	HPG3	更新
1095	Online HDD/SDD Flash Component for VMware ESXi - EK000200GWEPD, EK000400GWEPE, EK000800GWEPP and EK001600GWEPPH Drives	CP040680.zip	EK001600GWEPPH	HPG3 (C)	HPG3	更新
1096	Online HDD/SDD Flash Component for VMware ESXi - MB002000GWFGH and MB001000GWFGF Drives	CP040652.zip	MB002000GWFGH	HPG3 (D)	HPG3	更新
1097	Online HDD/SDD Flash Component for VMware ESXi - MB002000GWFGH and MB001000GWFGF Drives	CP040652.zip	MB001000GWFGF	HPG3 (D)	HPG3	更新
1098	Online HDD/SDD Flash Component for VMware ESXi - MB004000GWKGV Drive	CP041493.zip	MB004000GWKGV	HPG1 (B)	HPG1	更新
1099	Online HDD/SDD Flash Component for VMware ESXi - MB006000GWBXQ and MB008000GWBXL Drives	CP040789.zip	MB006000GWBXQ	HPG8 (B)	HPG8	更新
1100	Online HDD/SDD Flash Component for VMware ESXi - MB006000GWBXQ and MB008000GWBXL Drives	CP040789.zip	MB008000GWBXL	HPG8 (B)	HPG8	更新
1101	Online HDD/SDD Flash Component for VMware ESXi - MB006000GWKGR Drive	CP041520.zip	MB006000GWKGR	HPG1 (B)	HPG1	更新
1102	Online HDD/SDD Flash Component for VMware ESXi - MB008000GWRTC Drive	CP041481.zip	MB008000GWRTC	HPG1 (B)	HPG1	更新
1103	Online HDD/SDD Flash Component for VMware ESXi - MB010000GWAYN and MB008000GWAYL Drives	CP040638.zip	MB010000GWAYN	HPG5 (C)	HPG5	更新
1104	Online HDD/SDD Flash Component for VMware ESXi - MB010000GWAYN and MB008000GWAYL Drives	CP040638.zip	MB008000GWAYL	HPG5 (C)	HPG5	更新
1105	Online HDD/SDD Flash Component for VMware ESXi - MB012000GWDFE Drives	CP040685.zip	MB012000GWDFE	HPG2 (C)	HPG2	更新
1106	Online HDD/SDD Flash Component for VMware ESXi - MB014000GWUDA Drive	CP041507.zip	MB014000GWUDA	HPG2 (B)	HPG2	更新
1107	Online HDD/SDD Flash Component for VMware ESXi - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH, and MB4000GVYZK Drives	CP040554.zip	MB1000GVYZE	HPG4 (E)	HPG4	更新
1108	Online HDD/SDD Flash Component for VMware ESXi - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH, and MB4000GVYZK Drives	CP040554.zip	MB2000GVYZF	HPG4 (E)	HPG4	更新

1109	Online HDD/SDD Flash Component for VMware ESXi - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH, and MB4000GVYZK Drives	CP040554.zip	MB3000GVYZH	HPG4 (E)	HPG4	更新
1110	Online HDD/SDD Flash Component for VMware ESXi - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH, and MB4000GVYZK Drives	CP040554.zip	MB4000GVYZK	HPG4 (E)	HPG4	更新
1111	Online HDD/SDD Flash Component for VMware ESXi - MB2000GCWLT, MB3000GCWLU, and MB4000GCWLV Drives	CP040507.zip	MB2000GCWLT	HPG4 (G)	HPG4	更新
1112	Online HDD/SDD Flash Component for VMware ESXi - MB2000GCWLT, MB3000GCWLU, and MB4000GCWLV Drives	CP040507.zip	MB3000GCWLU	HPG4 (G)	HPG4	更新
1113	Online HDD/SDD Flash Component for VMware ESXi - MB2000GCWLT, MB3000GCWLU, and MB4000GCWLV Drives	CP040507.zip	MB4000GCWLV	HPG4 (G)	HPG4	更新
1114	Online HDD/SDD Flash Component for VMware ESXi - MB2000GFEMH and MB4000GFEMK Drives	CP040642.zip	MB2000GFEMH	HPG6 (E)	HPG6	更新
1115	Online HDD/SDD Flash Component for VMware ESXi - MB2000GFEMH and MB4000GFEMK Drives	CP040642.zip	MB4000GFEMK	HPG6 (E)	HPG6	更新
1116	Online HDD/SDD Flash Component for VMware ESXi - MB4000GEQNH and MB6000GEQNK Drives	CP039425.zip	MB4000GEQNH	HPGB (E)	HPGB	更新
1117	Online HDD/SDD Flash Component for VMware ESXi - MB4000GEQNH and MB6000GEQNK Drives	CP039425.zip	MB6000GEQNK	HPGB (E)	HPGB	更新
1118	Online HDD/SDD Flash Component for VMware ESXi - MB6000GEQUT and MB8000GEQUU Drives	CP040632.zip	MB6000GEQUT	HPGB (E)	HPGB	更新
1119	Online HDD/SDD Flash Component for VMware ESXi - MB6000GEQUT and MB8000GEQUU Drives	CP040632.zip	MB8000GEQUU	HPGB (E)	HPGB	更新
1120	Online HDD/SDD Flash Component for VMware ESXi - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFCB Drives	CP040679.zip	MK000240GWCEU	HPG3 (C)	HPG3	更新
1121	Online HDD/SDD Flash Component for VMware ESXi - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFCB Drives	CP040679.zip	MK000480GWCEV	HPG3 (C)	HPG3	更新



1122	Online HDD/SDD Flash Component for VMware ESXi - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFCB Drives	CP040679.zip	MK000960GWCFA	HPG3 (C)	HPG3	更新
1123	Online HDD/SDD Flash Component for VMware ESXi - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFCB Drives	CP040679.zip	MK001920GWCFCB	HPG3 (C)	HPG3	更新
1124	Online HDD/SDD Flash Component for VMware ESXi - MK003840GWHT E	CP041321.zip	MK003840GWHT E	HPG6 (B)	HPG6	更新
1125	Online HDD/SDD Flash Component for VMware ESXi - MK0960GECQK Drives	CP039422.zip	MK0960GECQK	HPG3 (H)	HPG3	更新
1126	Online HDD/SDD Flash Component for VMware ESXi - MM1000GEFQV and MM2000GEFRA Drives	CP040658.zip	MM1000GEFQV	HPG8 (D)	HPG8	更新
1127	Online HDD/SDD Flash Component for VMware ESXi - MM1000GEFQV and MM2000GEFRA Drives	CP040658.zip	MM2000GEFRA	HPG8 (D)	HPG8	更新
1128	Online HDD/SDD Flash Component for VMware ESXi - MM1000GFJTE Drives	CP040659.zip	MM1000GFJTE	HPG5 (B)	HPG5	更新
1129	Online HDD/SDD Flash Component for VMware ESXi - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives	CP041315.zip	MR000240GWFLU	HPGE (B)	HPGE	更新
1130	Online HDD/SDD Flash Component for VMware ESXi - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives	CP041315.zip	MR000480GWFLV	HPGE (B)	HPGE	更新
1131	Online HDD/SDD Flash Component for VMware ESXi - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives	CP041315.zip	VR000480GWFMD	HPGE (B)	HPGE	更新
1132	Online HDD/SDD Flash Component for VMware ESXi - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives	CP041315.zip	MR000960GWFMA	HPGE (B)	HPGE	更新

1133	Online HDD/SDD Flash Component for VMware ESXi - MR000240GWFLU, MR000480GWFLV, VR000480GWFM D, MR000960GWFM A, VR000960GWFM E, MR001920GWFM B and VR001920GWFM C Drives	CP041315.zip	VR000960GWFM E	HPGE (B)	HPGE	更新
1134	Online HDD/SDD Flash Component for VMware ESXi - MR000240GWFLU, MR000480GWFLV, VR000480GWFM D, MR000960GWFM A, VR000960GWFM E, MR001920GWFM B and VR001920GWFM C Drives	CP041315.zip	MR001920GWFM B	HPGE (B)	HPGE	更新
1135	Online HDD/SDD Flash Component for VMware ESXi - MR000240GWFLU, MR000480GWFLV, VR000480GWFM D, MR000960GWFM A, VR000960GWFM E, MR001920GWFM B and VR001920GWFM C Drives	CP041315.zip	VR001920GWFM C	HPGE (B)	HPGE	更新
1136	Online HDD/SDD Flash Component for VMware ESXi - VK000240GWCFD, VK000480GWCFE, VK000960GWCF F, VK001920GWCF H and VK003840GWCF K Drives.	CP040671.zip	VK000240GWCF D	HPG3 (C)	HPG3	更新
1137	Online HDD/SDD Flash Component for VMware ESXi - VK000240GWCFD, VK000480GWCFE, VK000960GWCF F, VK001920GWCF H and VK003840GWCF K Drives.	CP040671.zip	VK000480GWCF E	HPG3 (C)	HPG3	更新
1138	Online HDD/SDD Flash Component for VMware ESXi - VK000240GWCFD, VK000480GWCFE, VK000960GWCF F, VK001920GWCF H and VK003840GWCF K Drives.	CP040671.zip	VK000960GWCF F	HPG3 (C)	HPG3	更新
1139	Online HDD/SDD Flash Component for VMware ESXi - VK000240GWCFD, VK000480GWCFE, VK000960GWCF F, VK001920GWCF H and VK003840GWCF K Drives.	CP040671.zip	VK001920GWCF H	HPG3 (C)	HPG3	更新
1140	Online HDD/SDD Flash Component for VMware ESXi - VK000240GWCFD, VK000480GWCFE, VK000960GWCF F, VK001920GWCF H and VK003840GWCF K Drives.	CP040671.zip	VK003840GWCF K	HPG3 (C)	HPG3	更新

1141	Online HDD/SDD Flash Component for VMware ESXi - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	CP041318.zip	VK000240GWEZB	HPGE (B)	HPGE	更新
1142	Online HDD/SDD Flash Component for VMware ESXi - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	CP041318.zip	VK000480GWEZC	HPGE (B)	HPGE	更新
1143	Online HDD/SDD Flash Component for VMware ESXi - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	CP041318.zip	VK000960GWEZD	HPGE (B)	HPGE	更新
1144	Online HDD/SDD Flash Component for VMware ESXi - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	CP041318.zip	VK001920GWEZE	HPGE (B)	HPGE	更新
1145	Online HDD/SDD Flash Component for VMware ESXi - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	CP041318.zip	MK000240GWEZF	HPGE (B)	HPGE	更新
1146	Online HDD/SDD Flash Component for VMware ESXi - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	CP041318.zip	MK000480GWEZH	HPGE (B)	HPGE	更新

1147	Online HDD/SDD Flash Component for VMware ESXi - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	CP041318.zip	MK000960GWEZK	HPGE (B)	HPGE	更新
1148	Online HDD/SDD Flash Component for VMware ESXi - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	CP041318.zip	MK001920GWHRU	HPGE (B)	HPGE	更新
1149	Online HDD/SDD Flash Component for VMware ESXi - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH, MK001920GWUGK Drives	CP040788.zip	VK000480GWSXF	HPG2 (B)	HPG2	更新
1150	Online HDD/SDD Flash Component for VMware ESXi - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH, MK001920GWUGK Drives	CP040788.zip	VK000960GWSXH	HPG2 (B)	HPG2	更新
1151	Online HDD/SDD Flash Component for VMware ESXi - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH, MK001920GWUGK Drives	CP040788.zip	VK001920GWSXK	HPG2 (B)	HPG2	更新
1152	Online HDD/SDD Flash Component for VMware ESXi - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH, MK001920GWUGK Drives	CP040788.zip	MK000480GWUGF	HPG2 (B)	HPG2	更新
1153	Online HDD/SDD Flash Component for VMware ESXi - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH, MK001920GWUGK Drives	CP040788.zip	MK000960GWUGH	HPG2 (B)	HPG2	更新

1154	Online HDD/SDD Flash Component for VMware ESXi - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH, MK001920GWUGK Drives	CP040788.zip	MK001920GWUGK	HPG2 (B)	HPG2	更新
1155	Online HDD/SDD Flash Component for VMware ESXi - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD Drives	CP041496.zip	VK000480GWTHA	HPG1 (B)	HPG1	更新
1156	Online HDD/SDD Flash Component for VMware ESXi - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD Drives	CP041496.zip	VK000960GWTHB	HPG1 (B)	HPG1	更新
1157	Online HDD/SDD Flash Component for VMware ESXi - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD Drives	CP041496.zip	VK001920GWTHC	HPG1 (B)	HPG1	更新
1158	Online HDD/SDD Flash Component for VMware ESXi - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD Drives	CP041496.zip	VK003840GWTHD	HPG1 (B)	HPG1	更新
1159	Online HDD/SDD Flash Component for VMware ESXi - VK003840GWSXL Drive	CP040786.zip	VK003840GWSXL	HPG2 (B)	HPG2	更新
1160	Online HDD/SDD Flash Component for VMware ESXi - VK007680GWSXN Drive	CP040787.zip	VK007680GWSXN	HPG2 (B)	HPG2	更新
1161	Online HDD/SDD Flash Component for VMware ESXi - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives	CP041559.zip	VK1600GEYJU	HPG5 (B)	HPG5	更新
1162	Online HDD/SDD Flash Component for VMware ESXi - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives	CP041559.zip	VK0800GEYJT	HPG5 (B)	HPG5	更新

1163	Online HDD/SDD Flash Component for VMware ESXi - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives	CP041559.zip	VK0480GEYJR	HPG5 (B)	HPG5	更新
1164	Online HDD/SDD Flash Component for VMware ESXi - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives	CP041559.zip	VK0240GEYJQ	HPG5 (B)	HPG5	更新
1165	Online HDD/SDD Flash Component for VMware ESXi - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives	CP041559.zip	VK0120GEYJP	HPG5 (B)	HPG5	更新
1166	Online HDD/SDD Flash Component for VMware ESXi - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives	CP041559.zip	VK0080GEYJN	HPG5 (B)	HPG5	更新
1167	Online HDD/SDD Flash Component for VMware ESXi - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives	CP041559.zip	LK0200GEYMR	HPG5 (B)	HPG5	更新

1168	Online HDD/SDD Flash Component for VMware ESXi - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives	CP041559.zip	LK0480GFJSK	HPG5 (B)	HPG5	更新
1169	Online HDD/SDD Flash Component for VMware ESXi - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives	CP041559.zip	LK0800GEYMU	HPG5 (B)	HPG5	更新
1170	Online HDD/SDD Flash Component for VMware ESXi - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives	CP041559.zip	LK1600GEYMV	HPG5 (B)	HPG5	更新
1171	Online HDD/SDD Flash Component for VMware ESXi - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives	CP041559.zip	MK0200GEYKC	HPG5 (B)	HPG5	更新
1172	Online HDD/SDD Flash Component for VMware ESXi - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives	CP041559.zip	MK0400GEYKD	HPG5 (B)	HPG5	更新

1173	Online HDD/SDD Flash Component for VMware ESXi - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives	CP041559.zip	MK0800GEYKE	HPG5 (B)	HPG5	更新
1174	Online HDD/SDD Flash Component for VMware ESXi - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives	CP041559.zip	MK1200GEYKF	HPG5 (B)	HPG5	更新
1175	Online HDD/SDD Flash Component for VMware ESXi - VR000150GWEPP and VR000480GWEPR Drives	CP040667.zip	VR000150GWEPP	HPG1 (C)	HPG1	更新
1176	Online HDD/SDD Flash Component for VMware ESXi - VR000150GWEPP and VR000480GWEPR Drives	CP040667.zip	VR000480GWEPR	HPG1 (C)	HPG1	更新
1177	Online HDD/SDD Flash Component for VMware ESXi - XP0032GEFEN, XP0032GDZME, XP0064GEFEP, and XP0064GDZMF Drives	CP040503.zip	XP0032GEFEN	HPS8 (F)	HPS8	更新
1178	Online HDD/SDD Flash Component for VMware ESXi - XP0032GEFEN, XP0032GDZME, XP0064GEFEP, and XP0064GDZMF Drives	CP040503.zip	XP0032GDZME	HPS8 (F)	HPS8	更新
1179	Online HDD/SDD Flash Component for VMware ESXi - XP0032GEFEN, XP0032GDZME, XP0064GEFEP, and XP0064GDZMF Drives	CP040503.zip	XP0064GEFEP	HPS8 (F)	HPS8	更新
1180	Online HDD/SDD Flash Component for VMware ESXi - XP0032GEFEN, XP0032GDZME, XP0064GEFEP, and XP0064GDZMF Drives	CP040503.zip	XP0064GDZMF	HPS8 (F)	HPS8	更新
1181	Online HDD/SDD Flash Component for VMware ESXi - XP0120GFJSL and XP0240GFJSN Drives	CP040520.zip	XP0120GFJSL	HPS4 (F)	HPS4	更新
1182	Online HDD/SDD Flash Component for VMware ESXi - XP0120GFJSL and XP0240GFJSN Drives	CP040520.zip	XP0240GFJSN	HPS4 (F)	HPS4	更新



1183	Online HDD/SDD Flash Component for Windows (x64) - EK000200GWEPD, EK000400GWEPE, EK000800GWEPP and EK001600GWEPH Drives	cp040489.exe	EK000200GWEPD	HPG3 (C)	HPG3	更新
1184	Online HDD/SDD Flash Component for Windows (x64) - EK000200GWEPD, EK000400GWEPE, EK000800GWEPP and EK001600GWEPH Drives	cp040489.exe	EK000400GWEPE	HPG3 (C)	HPG3	更新
1185	Online HDD/SDD Flash Component for Windows (x64) - EK000200GWEPD, EK000400GWEPE, EK000800GWEPP and EK001600GWEPH Drives	cp040489.exe	EK000800GWEPP	HPG3 (C)	HPG3	更新
1186	Online HDD/SDD Flash Component for Windows (x64) - EK000200GWEPD, EK000400GWEPE, EK000800GWEPP and EK001600GWEPH Drives	cp040489.exe	EK001600GWEPH	HPG3 (C)	HPG3	更新
1187	Online HDD/SDD Flash Component for Windows (x64) - MB001000GWCBC and MB002000GWCBD Drives	cp040791.exe	MB001000GWCBC	HPG6 (B)	HPG6	更新
1188	Online HDD/SDD Flash Component for Windows (x64) - MB001000GWCBC and MB002000GWCBD Drives	cp040791.exe	MB002000GWCBD	HPG6 (B)	HPG6	更新
1189	Online HDD/SDD Flash Component for Windows (x64) - MB001000GFWFK and MB002000GFWFL Drives	cp040792.exe	MB001000GFWFK	HPG6 (B)	HPG6	更新
1190	Online HDD/SDD Flash Component for Windows (x64) - MB001000GFWFK and MB002000GFWFL Drives	cp040792.exe	MB002000GFWFL	HPG6 (B)	HPG6	更新
1191	Online HDD/SDD Flash Component for Windows (x64) - MB001000GWJAN, MB002000GFWFA and MB004000GFWFB Drives	cp040483.exe	MB001000GWJAN	HPG1 (B)	HPG1	更新
1192	Online HDD/SDD Flash Component for Windows (x64) - MB001000GWJAN, MB002000GFWFA and MB004000GFWFB Drives	cp040483.exe	MB002000GFWFA	HPG1 (B)	HPG1	更新
1193	Online HDD/SDD Flash Component for Windows (x64) - MB001000GWJAN, MB002000GFWFA and MB004000GFWFB Drives	cp040483.exe	MB004000GFWFB	HPG1 (B)	HPG1	更新
1194	Online HDD/SDD Flash Component for Windows (x64) - MB002000GFWGH and MB001000GFWGF Drives	cp040452.exe	MB001000GFWGF	HPG3 (D)	HPG3	更新
1195	Online HDD/SDD Flash Component for Windows (x64) - MB002000GFWGH and MB001000GFWGF Drives	cp040452.exe	MB002000GFWGH	HPG3 (D)	HPG3	更新

1196	Online HDD/SDD Flash Component for Windows (x64) - MB004000GWKGV Drive	cp041495.exe	MB004000GWKGV	HPG1 (B)	HPG1	更新
1197	Online HDD/SDD Flash Component for Windows (x64) - MB006000GWBXQ and MB008000GWBYL Drives	cp040796.exe	MB006000GWBXQ	HPG8 (B)	HPG8	更新
1198	Online HDD/SDD Flash Component for Windows (x64) - MB006000GWBXQ and MB008000GWBYL Drives	cp040796.exe	MB008000GWBYL	HPG8 (B)	HPG8	更新
1199	Online HDD/SDD Flash Component for Windows (x64) - MB006000GWKGR Drive	cp041522.exe	MB006000GWKGR	HPG1 (B)	HPG1	更新
1200	Online HDD/SDD Flash Component for Windows (x64) - MB008000GWRTC Drive	cp041486.exe	MB008000GWRTC	HPG1 (B)	HPG1	更新
1201	Online HDD/SDD Flash Component for Windows (x64) - MB010000GWAYN and MB008000GWAYL Drives	cp040448.exe	MB010000GWAYN	HPG5 (C)	HPG5	更新
1202	Online HDD/SDD Flash Component for Windows (x64) - MB010000GWAYN and MB008000GWAYL Drives	cp040448.exe	MB008000GWAYL	HPG5 (C)	HPG5	更新
1203	Online HDD/SDD Flash Component for Windows (x64) - MB012000GWDFF Drives	cp040457.exe	MB012000GWDFF	HPG2 (C)	HPG2	更新
1204	Online HDD/SDD Flash Component for Windows (x64) - MB014000GWRTN, MB012000GWRTL and MB010000GWRTK Drives	cp041454.exe	MB014000GWRTN	HPG2 (B)	HPG2	更新
1205	Online HDD/SDD Flash Component for Windows (x64) - MB014000GWRTN, MB012000GWRTL and MB010000GWRTK Drives	cp041454.exe	MB012000GWRTL	HPG2 (B)	HPG2	更新
1206	Online HDD/SDD Flash Component for Windows (x64) - MB014000GWRTN, MB012000GWRTL and MB010000GWRTK Drives	cp041454.exe	MB010000GWRTK	HPG2 (B)	HPG2	更新
1207	Online HDD/SDD Flash Component for Windows (x64) - MB014000GWUDA Drive	cp041509.exe	MB014000GWUDA	HPG2 (B)	HPG2	更新
1208	Online HDD/SDD Flash Component for Windows (x64) - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA, and MB4000GDUPB Drives	cp040403.exe	MB1000GDUNU	HPG4 (F)	HPG4	更新
1209	Online HDD/SDD Flash Component for Windows (x64) - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA, and MB4000GDUPB Drives	cp040403.exe	MB2000GDUNV	HPG4 (F)	HPG4	更新

1210	Online HDD/SDD Flash Component for Windows (x64) - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA, and MB4000GDUPB Drives	cp040403.exe	MB3000GDUPA	HPG4 (F)	HPG4	更新
1211	Online HDD/SDD Flash Component for Windows (x64) - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA, and MB4000GDUPB Drives	cp040403.exe	MB4000GDUPB	HPG4 (F)	HPG4	更新
1212	Online HDD/SDD Flash Component for Windows (x64) - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH, and MB4000GVYZK Drives	cp040430.exe	MB1000GVYZE	HPG4 (F)	HPG4	更新
1213	Online HDD/SDD Flash Component for Windows (x64) - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH, and MB4000GVYZK Drives	cp040430.exe	MB2000GVYZF	HPG4 (F)	HPG4	更新
1214	Online HDD/SDD Flash Component for Windows (x64) - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH, and MB4000GVYZK Drives	cp040430.exe	MB3000GVYZH	HPG4 (F)	HPG4	更新
1215	Online HDD/SDD Flash Component for Windows (x64) - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH, and MB4000GVYZK Drives	cp040430.exe	MB4000GVYZK	HPG4 (F)	HPG4	更新
1216	Online HDD/SDD Flash Component for Windows (x64) - MB2000GCWLT, MB3000GCWLU, and MB4000GCWLV Drives	cp040404.exe	MB2000GCWLT	HPG4 (F)	HPG4	更新
1217	Online HDD/SDD Flash Component for Windows (x64) - MB2000GCWLT, MB3000GCWLU, and MB4000GCWLV Drives	cp040404.exe	MB3000GCWLU	HPG4 (F)	HPG4	更新
1218	Online HDD/SDD Flash Component for Windows (x64) - MB2000GCWLT, MB3000GCWLU, and MB4000GCWLV Drives	cp040404.exe	MB4000GCWLV	HPG4 (F)	HPG4	更新
1219	Online HDD/SDD Flash Component for Windows (x64) - MB2000GFEMH and MB4000GFEMK Drives	cp040447.exe	MB2000GFEMH	HPG6 (E)	HPG6	更新
1220	Online HDD/SDD Flash Component for Windows (x64) - MB2000GFEMH and MB4000GFEMK Drives	cp040447.exe	MB4000GFEMK	HPG6 (E)	HPG6	更新
1221	Online HDD/SDD Flash Component for Windows (x64) - MB4000GEFNA and MB6000GEFNB Drives	cp040387.exe	MB4000GEFNA	HPG6 (F)	HPG6	更新

1222	Online HDD/SDD Flash Component for Windows (x64) - MB4000GEFNA and MB6000GEFNB Drives	cp040387.exe	MB6000GEFNB	HPG6 (F)	HPG6	更新
1223	Online HDD/SDD Flash Component for Windows (x64) - MB4000GEQNH and MB6000GEQNK Drives	cp040391.exe	MB4000GEQNH	HPGB (E)	HPGB	更新
1224	Online HDD/SDD Flash Component for Windows (x64) - MB4000GEQNH and MB6000GEQNK Drives	cp040391.exe	MB6000GEQNK	HPGB (E)	HPGB	更新
1225	Online HDD/SDD Flash Component for Windows (x64) - MB6000GEBTP Drives	cp040428.exe	MB6000GEBTP	HPG4 (E)	HPG4	更新
1226	Online HDD/SDD Flash Component for Windows (x64) - MB6000GEQUT and MB8000GEQUU Drives	cp040451.exe	MB6000GEQUT	HPGB (E)	HPGB	更新
1227	Online HDD/SDD Flash Component for Windows (x64) - MB6000GEQUT and MB8000GEQUU Drives	cp040451.exe	MB8000GEQUU	HPGB (E)	HPGB	更新
1228	Online HDD/SDD Flash Component for Windows (x64) - MB6000GEXXV Drives	cp040409.exe	MB6000GEXXV	HPG2 (F)	HPG2	更新
1229	Online HDD/SDD Flash Component for Windows (x64) - MB6000GVYYU Drives	cp040485.exe	MB6000GVYYU	HPG2 (E)	HPG2	更新
1230	Online HDD/SDD Flash Component for Windows (x64) - MB6000GVYZB and MB4000GVYZA Drives	cp040459.exe	MB6000GVYZB	HPG4 (B)	HPG4	更新
1231	Online HDD/SDD Flash Component for Windows (x64) - MB6000GVYZB and MB4000GVYZA Drives	cp040459.exe	MB4000GVYZA	HPG4 (B)	HPG4	更新
1232	Online HDD/SDD Flash Component for Windows (x64) - MB8000GFECR Drives	cp040410.exe	MB8000GFECR	HPG6 (B)	HPG6	更新
1233	Online HDD/SDD Flash Component for Windows (x64) - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFB Drives	cp040484.exe	MK000480GWCEV	HPG3 (C)	HPG3	更新
1234	Online HDD/SDD Flash Component for Windows (x64) - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFB Drives	cp040484.exe	MK000960GWCFA	HPG3 (C)	HPG3	更新
1235	Online HDD/SDD Flash Component for Windows (x64) - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFB Drives	cp040484.exe	MK001920GWCFB	HPG3 (C)	HPG3	更新
1236	Online HDD/SDD Flash Component for Windows (x64) - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFB Drives	cp040484.exe	MK000240GWCEU	HPG3 (C)	HPG3	更新

1237	Online HDD/SDD Flash Component for Windows (x64) - MK003840GWHT E Drives	cp041323.exe	MK003840GWHT E	HPG6 (B)	HPG6	更新
1238	Online HDD/SDD Flash Component for Windows (x64) - MK0960GECQK Drives	cp040388.exe	MK0960GECQK	HPG3 (H)	HPG3	更新
1239	Online HDD/SDD Flash Component for Windows (x64) - MM1000GEFQV and MM2000GEFRA Drives	cp040397.exe	MM1000GEFQV	HPG8 (D)	HPG8	更新
1240	Online HDD/SDD Flash Component for Windows (x64) - MM1000GEFQV and MM2000GEFRA Drives	cp040397.exe	MM2000GEFRA	HPG8 (D)	HPG8	更新
1241	Online HDD/SDD Flash Component for Windows (x64) - MM1000GFJTE Drives	cp040472.exe	MM1000GFJTE	HPG5 (B)	HPG5	更新
1242	Online HDD/SDD Flash Component for Windows (x64) - MR000240GWFLU, MR000480GWFLV, VR000480WFMD, MR000960WFMA, VR000960WFME, MR001920WFMB and VR001920WFMC Drives	cp041317.exe	MR000240GWFLU	HPGE (B)	HPGE	更新
1243	Online HDD/SDD Flash Component for Windows (x64) - MR000240GWFLU, MR000480GWFLV, VR000480WFMD, MR000960WFMA, VR000960WFME, MR001920WFMB and VR001920WFMC Drives	cp041317.exe	MR000480GWFLV	HPGE (B)	HPGE	更新
1244	Online HDD/SDD Flash Component for Windows (x64) - MR000240GWFLU, MR000480GWFLV, VR000480WFMD, MR000960WFMA, VR000960WFME, MR001920WFMB and VR001920WFMC Drives	cp041317.exe	VR000480GWFLV D	HPGE (B)	HPGE	更新
1245	Online HDD/SDD Flash Component for Windows (x64) - MR000240GWFLU, MR000480GWFLV, VR000480WFMD, MR000960WFMA, VR000960WFME, MR001920WFMB and VR001920WFMC Drives	cp041317.exe	MR000960GWFLV A	HPGE (B)	HPGE	更新
1246	Online HDD/SDD Flash Component for Windows (x64) - MR000240GWFLU, MR000480GWFLV, VR000480WFMD, MR000960WFMA, VR000960WFME, MR001920WFMB and VR001920WFMC Drives	cp041317.exe	VR000960GWFLV E	HPGE (B)	HPGE	更新

1247	Online HDD/SDD Flash Component for Windows (x64) - MR000240GWFLU, MR000480GWFLV, VR000480GWFM D, MR000960GWFM A, VR000960GWFM E, MR001920GWFM B and VR001920GWFM C Drives	cp041317.exe	MR001920GWFM B	HPGE (B)	HPGE	更新
1248	Online HDD/SDD Flash Component for Windows (x64) - MR000240GWFLU, MR000480GWFLV, VR000480GWFM D, MR000960GWFM A, VR000960GWFM E, MR001920GWFM B and VR001920GWFM C Drives	cp041317.exe	VR001920GWFM C	HPGE (B)	HPGE	更新
1249	Online HDD/SDD Flash Component for Windows (x64) - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	cp040476.exe	VK000150GWCNN	HPG1 (B)	HPG1	更新
1250	Online HDD/SDD Flash Component for Windows (x64) - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	cp040476.exe	VK000240GWCNP	HPG1 (B)	HPG1	更新
1251	Online HDD/SDD Flash Component for Windows (x64) - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	cp040476.exe	VK000480GWCN Q	HPG1 (B)	HPG1	更新
1252	Online HDD/SDD Flash Component for Windows (x64) - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	cp040476.exe	VK000960GWCNR	HPG1 (B)	HPG1	更新
1253	Online HDD/SDD Flash Component for Windows (x64) - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	cp040476.exe	VK001600GWCNT	HPG1 (B)	HPG1	更新
1254	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWCFD, VK000480GWCFE, VK000960GWCF F, VK001920GWCF H and VK003840GWCF K Drives	cp040477.exe	VK000480GWCFE	HPG3 (C)	HPG3	更新

1255	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWCFD, VK000480GWCFE, VK000960GWCFE, VK001920GWCFH and VK003840GWCFK Drives	cp040477.exe	VK000960GWCFE	HPG3 (C)	HPG3	更新
1256	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWCFD, VK000480GWCFE, VK000960GWCFE, VK001920GWCFH and VK003840GWCFK Drives	cp040477.exe	VK000240GWCFD	HPG3 (C)	HPG3	更新
1257	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWCFD, VK000480GWCFE, VK000960GWCFE, VK001920GWCFH and VK003840GWCFK Drives	cp040477.exe	VK001920GWCFH	HPG3 (C)	HPG3	更新
1258	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWCFD, VK000480GWCFE, VK000960GWCFE, VK001920GWCFH and VK003840GWCFK Drives	cp040477.exe	VK003840GWCFK	HPG3 (C)	HPG3	更新
1259	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	cp041320.exe	VK000240GWEZB	HPGE (B)	HPGE	更新
1260	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	cp041320.exe	VK000480GWEZC	HPGE (B)	HPGE	更新
1261	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	cp041320.exe	VK000960GWEZD	HPGE (B)	HPGE	更新

1262	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	cp041320.exe	VK001920GWEZE	HPGE (B)	HPGE	更新
1263	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	cp041320.exe	MK000240GWEZF	HPGE (B)	HPGE	更新
1264	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	cp041320.exe	MK000480GWEZ H	HPGE (B)	HPGE	更新
1265	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	cp041320.exe	MK000960GWEZK	HPGE (B)	HPGE	更新
1266	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	cp041320.exe	MK001920GWHR U	HPGE (B)	HPGE	更新
1267	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPQ Drives	cp040469.exe	MK000240GWKV K	HPG5 (B)	HPG5	更新



1268	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	cp040469.exe	MK000480GWJPN	HPG5 (B)	HPG5	更新
1269	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	cp040469.exe	MK000960GWJPP	HPG5 (B)	HPG5	更新
1270	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	cp040469.exe	MK001920GWJPPQ	HPG5 (B)	HPG5	更新
1271	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	cp040469.exe	VK000240GWJPD	HPG5 (B)	HPG5	更新
1272	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	cp040469.exe	VK000480GWJPE	HPG5 (B)	HPG5	更新
1273	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	cp040469.exe	VK000960GWJPF	HPG5 (B)	HPG5	更新

1274	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	cp040469.exe	VK001920GWJPH	HPG5 (B)	HPG5	更新
1275	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	cp040469.exe	VK003840GWJPK	HPG5 (B)	HPG5	更新
1276	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives	cp041312.exe	VK000240GWSRQ	HPG2 (B)	HPG2	更新
1277	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives	cp041312.exe	VK000480GWSRR	HPG2 (B)	HPG2	更新
1278	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives	cp041312.exe	VK000960GWSRT	HPG2 (B)	HPG2	更新
1279	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives	cp041312.exe	VK001920GWSRU	HPG2 (B)	HPG2	更新
1280	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives	cp041312.exe	VK003840GWSRV	HPG2 (B)	HPG2	更新

1281	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp040797.exe	VK000240GWTSV	HPG3 (B)	HPG3	更新
1282	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp040797.exe	VK000480GWTTA	HPG3 (B)	HPG3	更新
1283	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp040797.exe	VK000960GWTTB	HPG3 (B)	HPG3	更新
1284	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp040797.exe	VK001920GWTTTC	HPG3 (B)	HPG3	更新
1285	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp040797.exe	VK003840GWTTD	HPG3 (B)	HPG3	更新
1286	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp040797.exe	MK000480GWTT H	HPG3 (B)	HPG3	更新

1287	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp040797.exe	MK000960GWTTK	HPG3 (B)	HPG3	更新
1288	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp040797.exe	MK001920GWTTL	HPG3 (B)	HPG3	更新
1289	Online HDD/SDD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp040797.exe	MK003840GWTTN	HPG3 (B)	HPG3	更新
1290	Online HDD/SDD Flash Component for Windows (x64) - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH, MK001920GWUGK Drives	cp040795.exe	VK000480GWSXF	HPG2 (B)	HPG2	更新
1291	Online HDD/SDD Flash Component for Windows (x64) - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH, MK001920GWUGK Drives	cp040795.exe	VK000960GWSXH	HPG2 (B)	HPG2	更新
1292	Online HDD/SDD Flash Component for Windows (x64) - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH, MK001920GWUGK Drives	cp040795.exe	VK001920GWSXK	HPG2 (B)	HPG2	更新
1293	Online HDD/SDD Flash Component for Windows (x64) - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH, MK001920GWUGK Drives	cp040795.exe	MK000480GWUGF	HPG2 (B)	HPG2	更新

1294	Online HDD/SDD Flash Component for Windows (x64) - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH, MK001920GWUGK Drives	cp040795.exe	MK000960GWUG H	HPG2 (B)	HPG2	更新
1295	Online HDD/SDD Flash Component for Windows (x64) - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH, MK001920GWUGK Drives	cp040795.exe	MK001920GWUG K	HPG2 (B)	HPG2	更新
1296	Online HDD/SDD Flash Component for Windows (x64) - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD Drives	cp041498.exe	VK000480GWTHA	HPG1 (B)	HPG1	更新
1297	Online HDD/SDD Flash Component for Windows (x64) - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD Drives	cp041498.exe	VK000960GWTHB	HPG1 (B)	HPG1	更新
1298	Online HDD/SDD Flash Component for Windows (x64) - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD Drives	cp041498.exe	VK001920GWTHC	HPG1 (B)	HPG1	更新
1299	Online HDD/SDD Flash Component for Windows (x64) - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD Drives	cp041498.exe	VK003840GWTHD	HPG1 (B)	HPG1	更新
1300	Online HDD/SDD Flash Component for Windows (x64) - VK003840GWSXL Drive	cp040793.exe	VK003840GWSXL	HPG2 (B)	HPG2	更新
1301	Online HDD/SDD Flash Component for Windows (x64) - VK007680GWSXN Drive	cp040794.exe	VK007680GWSXN	HPG2 (B)	HPG2	更新
1302	Online HDD/SDD Flash Component for Windows (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives	cp041557.exe	VK1600GEYJU	HPG5 (B)	HPG5	更新

1303	Online HDD/SDD Flash Component for Windows (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives	cp041557.exe	VK0800GEYJT	HPG5 (B)	HPG5	更新
1304	Online HDD/SDD Flash Component for Windows (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives	cp041557.exe	VK0480GEYJR	HPG5 (B)	HPG5	更新
1305	Online HDD/SDD Flash Component for Windows (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives	cp041557.exe	VK0240GEYJQ	HPG5 (B)	HPG5	更新
1306	Online HDD/SDD Flash Component for Windows (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives	cp041557.exe	VK0120GEYJP	HPG5 (B)	HPG5	更新
1307	Online HDD/SDD Flash Component for Windows (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives	cp041557.exe	VK0080GEYJN	HPG5 (B)	HPG5	更新

1308	Online HDD/SDD Flash Component for Windows (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives	cp041557.exe	LK0200GEYMR	HPG5 (B)	HPG5	更新
1309	Online HDD/SDD Flash Component for Windows (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives	cp041557.exe	LK0480GFJSK	HPG5 (B)	HPG5	更新
1310	Online HDD/SDD Flash Component for Windows (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives	cp041557.exe	LK0800GEYMU	HPG5 (B)	HPG5	更新
1311	Online HDD/SDD Flash Component for Windows (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives	cp041557.exe	LK1600GEYMV	HPG5 (B)	HPG5	更新
1312	Online HDD/SDD Flash Component for Windows (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives	cp041557.exe	MK0200GEYKC	HPG5 (B)	HPG5	更新

1313	Online HDD/SDD Flash Component for Windows (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives	cp041557.exe	MK0400GEYKD	HPG5 (B)	HPG5	更新
1314	Online HDD/SDD Flash Component for Windows (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives	cp041557.exe	MK0800GEYKE	HPG5 (B)	HPG5	更新
1315	Online HDD/SDD Flash Component for Windows (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives	cp041557.exe	MK1200GEYKF	HPG5 (B)	HPG5	更新
1316	Online HDD/SDD Flash Component for Windows (x64) - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL, and VK3840GFDKN Drives	cp040412.exe	VK0120GFDKE	HPG1 (E)	HPG1	更新
1317	Online HDD/SDD Flash Component for Windows (x64) - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL, and VK3840GFDKN Drives	cp040412.exe	VK0240GFDKF	HPG1 (E)	HPG1	更新
1318	Online HDD/SDD Flash Component for Windows (x64) - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL, and VK3840GFDKN Drives	cp040412.exe	VK0480GFDKH	HPG1 (E)	HPG1	更新



1319	Online HDD/SDD Flash Component for Windows (x64) - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL, and VK3840GFDKN Drives	cp040412.exe	VK0960GFDKK	HPG1 (E)	HPG1	更新
1320	Online HDD/SDD Flash Component for Windows (x64) - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL, and VK3840GFDKN Drives	cp040412.exe	VK1920GFDKL	HPG1 (E)	HPG1	更新
1321	Online HDD/SDD Flash Component for Windows (x64) - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL, and VK3840GFDKN Drives	cp040412.exe	VK3840GFDKN	HPG1 (E)	HPG1	更新
1322	Online HDD/SDD Flash Component for Windows (x64) - VK0240GEPQN, VK0480GEPQP, and VK0960GEPQQ Drives	cp040417.exe	VK0240GEPQN	HPG1 (E)	HPG1	更新
1323	Online HDD/SDD Flash Component for Windows (x64) - VK0240GEPQN, VK0480GEPQP, and VK0960GEPQQ Drives	cp040417.exe	VK0480GEPQP	HPG1 (E)	HPG1	更新
1324	Online HDD/SDD Flash Component for Windows (x64) - VK0240GEPQN, VK0480GEPQP, and VK0960GEPQQ Drives	cp040417.exe	VK0960GEPQQ	HPG1 (E)	HPG1	更新
1325	Online HDD/SDD Flash Component for Windows (x64) - VR000150GWEPP and VR000480GWEPR Drives	cp040478.exe	VR000150GWEPP	HPG1 (C)	HPG1	更新
1326	Online HDD/SDD Flash Component for Windows (x64) - VR000150GWEPP and VR000480GWEPR Drives	cp040478.exe	VR000480GWEPR	HPG1 (C)	HPG1	更新
1327	Online HDD/SDD Flash Component for Windows (x64) - XP0032GEFEN, XP0032GDZME, XP0064GEFEP, and XP0064GDZMF Drives	cp040400.exe	XP0032GEFEN	HPS8 (E)	HPS8	更新
1328	Online HDD/SDD Flash Component for Windows (x64) - XP0032GEFEN, XP0032GDZME, XP0064GEFEP, and XP0064GDZMF Drives	cp040400.exe	XP0032GDZME	HPS8 (E)	HPS8	更新
1329	Online HDD/SDD Flash Component for Windows (x64) - XP0032GEFEN, XP0032GDZME, XP0064GEFEP, and XP0064GDZMF Drives	cp040400.exe	XP0064GEFEP	HPS8 (E)	HPS8	更新

1330	Online HDD/SDD Flash Component for Windows (x64) - XP0032GEFEN, XP0032GDZME, XP0064GEFEP, and XP0064GDZMF Drives	cp040400.exe	XP0064GDZMF	HPS8 (E)	HPS8	更新
1331	Online HDD/SDD Flash Component for Windows (x64) - XP0120GFJSL and XP0240GFJSN Drives	cp040415.exe	XP0120GFJSL	HPS4 (E)	HPS4	更新
1332	Online HDD/SDD Flash Component for Windows (x64) - XP0120GFJSL and XP0240GFJSN Drives	cp040415.exe	XP0240GFJSN	HPS4 (E)	HPS4	更新
1333	Online HDD/SSD Flash Component for VMware ESXi - MB6000GVVYU Drives	CP040549.zip	MB6000GVVYU	HPG2 (E)	HPG2	更新

### 6.2.17 Firmware - Storage Controller

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
1334	Online ROM Flash Component for VMware ESXi – HPE 12Gb/s SAS Expander Firmware for HPE Smart Array Controllers and HPE HBA Controllers	CP040617.zip	HPE 12Gb SAS Expander Card	4.22	4.22	
1335	Online ROM Flash Component for VMware ESXi - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	CP039559.zip	HPE Smart Array P816i-a SR Gen10 Controller	2.62	2.62	更新
1336	Online ROM Flash Component for VMware ESXi - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	CP039559.zip	HPE Smart Array P408i-a SR Gen10 Controller	2.62	2.62	更新
1337	Online ROM Flash Component for VMware ESXi - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	CP039559.zip	HPE Smart Array P408i-p SR Gen10 Controller	2.62	2.62	更新
1338	Online ROM Flash Component for VMware ESXi - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	CP039559.zip	HPE Smart Array E208e-p SR Gen10 Controller	2.62	2.62	更新

1339	Online ROM Flash Component for VMware ESXi - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	CP039559.zip	HPE Smart Array E208i-p SR Gen10 Controller	2.62	2.62	更新
1340	Online ROM Flash Component for VMware ESXi - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	CP039559.zip	HPE Smart Array E208i-a SR Gen10 Controller	2.62	2.62	更新
1341	Online ROM Flash Component for Windows (x64) - HPE 12Gb/s SAS Expander Firmware for HPE Smart Array Controllers and HPE HBA Controllers	cp040619.exe	HPE 12Gb SAS Expander Card	4.22	4.22	
1342	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, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	cp039561.exe	HPE Smart Array P816i-a SR Gen10 Controller	2.62	2.62	更新
1343	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, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	cp039561.exe	HPE Smart Array P408i-a SR Gen10 Controller	2.62	2.62	更新
1344	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, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	cp039561.exe	HPE Smart Array P408i-p SR Gen10 Controller	2.62	2.62	更新
1345	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, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	cp039561.exe	HPE Smart Array E208e-p SR Gen10 Controller	2.62	2.62	更新

1346	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, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	cp039561.exe	HPE Smart Array E208i-p SR Gen10 Controller	2.62	2.62	更新
1347	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, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	cp039561.exe	HPE Smart Array E208i-a SR Gen10 Controller	2.62	2.62	更新
1348	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-2d e15b6882-4.22-1.1.x86_64.rpm	HPE 12Gb SAS Expander Card	4.22	4.22	
1349	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, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	firmware-smartarray-f7 c07bdbbd-2.62-1.1.x86_64.rpm	HPE Smart Array P816i-a SR Gen10 Controller	2.62	2.62	更新
1350	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, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	firmware-smartarray-f7 c07bdbbd-2.62-1.1.x86_64.rpm	HPE Smart Array P408i-a SR Gen10 Controller	2.62	2.62	更新
1351	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, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	firmware-smartarray-f7 c07bdbbd-2.62-1.1.x86_64.rpm	HPE Smart Array P408i-p SR Gen10 Controller	2.62	2.62	更新
1352	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, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	firmware-smartarray-f7 c07bdbbd-2.62-1.1.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	2.62	2.62	更新

1353	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, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	firmware-smartarray-f7c07bdbbd-2.62-1.1.x86_64.rpm	HPE Smart Array E208i-p SR Gen10 Controller	2.62	2.62	更新
1354	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, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	firmware-smartarray-f7c07bdbbd-2.62-1.1.x86_64.rpm	HPE Smart Array E208i-a SR Gen10 Controller	2.62	2.62	更新

### 6.2.18 Firmware - Storage Fibre Channel

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
1355	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Linux (x64)	firmware-fc-emulex-2019.12.01-1.34.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	2019.12.01	12.4.270.5	更新
1356	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Linux (x64)	firmware-fc-emulex-2019.12.01-1.34.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	2019.12.01	12.4.270.5	更新
1357	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Linux (x64)	firmware-fc-emulex-2019.12.01-1.34.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	2019.12.01	12.4.270.5	更新
1358	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Linux (x64)	firmware-fc-emulex-2019.12.01-1.34.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	2019.12.01	12.4.270.5	更新
1359	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 6.5	CP039573.zip	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	2019.12.01	12.4.270.5	更新
1360	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 6.5	CP039573.zip	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	2019.12.01	12.4.270.5	更新
1361	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 6.5	CP039573.zip	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	2019.12.01	12.4.270.5	更新
1362	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 6.5	CP039573.zip	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	2019.12.01	12.4.270.5	更新

1363	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 6.7	CP039574.zip	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	2019.12.01	12.4.270.5	更新
1364	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 6.7	CP039574.zip	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	2019.12.01	12.4.270.5	更新
1365	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 6.7	CP039574.zip	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	2019.12.01	12.4.270.5	更新
1366	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 6.7	CP039574.zip	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	2019.12.01	12.4.270.5	更新
1367	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Windows 2012 R2/2016/2019 x64	cp039575.exe	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	2019.12.01	12.4.270.5	更新
1368	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Windows 2012 R2/2016/2019 x64	cp039575.exe	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	2019.12.01	12.4.270.5	更新
1369	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Windows 2012 R2/2016/2019 x64	cp039575.exe	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	2019.12.01	12.4.270.5	更新
1370	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Windows 2012 R2/2016/2019 x64	cp039575.exe	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	2019.12.01	12.4.270.5	更新
1371	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Linux (x86_64)	firmware-fc-qlogic-2019.12.01-1.20.x86_64.rpm	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	2019.12.01	01.73.07	更新
1372	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Linux (x86_64)	firmware-fc-qlogic-2019.12.01-1.20.x86_64.rpm	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	2019.12.01	01.73.07	更新
1373	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Linux (x86_64)	firmware-fc-qlogic-2019.12.01-1.20.x86_64.rpm	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	2019.12.01	01.73.07	更新
1374	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Linux (x86_64)	firmware-fc-qlogic-2019.12.01-1.20.x86_64.rpm	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	2019.12.01	01.73.07	更新
1375	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 6.5	CP039707.zip	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	2019.12.01	01.73.07	更新

1376	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 6.5	CP039707.zip	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	2019.12.01	01.73.07	更新
1377	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 6.5	CP039707.zip	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	2019.12.01	01.73.07	更新
1378	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 6.5	CP039707.zip	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	2019.12.01	01.73.07	更新
1379	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 6.7	CP039708.zip	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	2019.12.01	01.73.07	更新
1380	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 6.7	CP039708.zip	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	2019.12.01	01.73.07	更新
1381	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 6.7	CP039708.zip	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	2019.12.01	01.73.07	更新
1382	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 6.7	CP039708.zip	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	2019.12.01	01.73.07	更新

### 6.2.19 Firmware – System

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
1383	Firmware Package - Gen10 NVMe Backplane PIC Firmware	ISS_NVMe_BP_PIC_flashV1B20.fwpkg	NVMe Backplane PIC	1.20	1.20	
1384	Online Flash Component for Linux - Gen10 NVMe Backplane PIC Firmware	firmware-nvmebackplane-gen10-1.20-5.1.x86_64.rpm	NVMe Backplane PIC	1.20 (E)	1.20	
1385	Online Flash Component for Windows x64 - Gen10 NVMe Backplane PIC Firmware	cp037722.exe	NVMe Backplane PIC	1.20 (D)	1.20	
1386	Online Flash for Linux - Innovation Engine Firmware for servers using Intel Xeon Scalable 3100/3200/4100/4200/5100/5200/6100/6200/8100/8200 series Processors	firmware-ie-0.2.1.2-1.1.x86_64.rpm	Innovation Engine (IE) Firmware	0.2.1.2	0.2.1.2	
1387	Online Flash for Linux - Server Platform Services (SPS) Firmware for servers using Intel Xeon Scalable 3100/3200/4100/4200/5100/5200/6100/6200/8100/8200 series Processors	firmware-sps-04.01.04.339-1.1.x86_64.rpm	Server Platform Services (SPS) Firmware	04.01.04.339	04.01.04.339	更新

1388	Online Flash for Windows x64 - Server Platform Services (SPS) Firmware for servers using Intel Xeon Scalable 3100/3200/4100/4200/5100/5200/6100/6200/8100/8200 series Processors	cp041722.exe	Server Platform Services (SPS) Firmware	04.01.04.339	04.01.04.339	更新
1389	Online ROM Flash Component for Windows x64 - Server Platform Services Manageability Engine Firmware for the Intel C242 and C246 PCH based systems	cp042342.exe	Server Platform Services (SPS) Firmware for Intel C242 and C...	05.01.03.094	05.01.03.094	更新
1390	Online ROM Flash for Linux - Server Platform Services Manageability Engine Firmware for the Intel C242 and C246 PCH based systems	firmware-u43u44sps-05.01.03.094-1.1.x86_64.rpm	Server Platform Services (SPS) Firmware for Intel C242 and C...	05.01.03.094	05.01.03.094	更新
1391	ROM Flash Firmware Package - Innovation Engine Firmware for servers using Intel Xeon Scalable 3100/3200/4100/4200/5100/5200/6100/6200/8100/8200 series Processors	OEM.IEGen10_0.2.1.2.fwpkg	Innovation Engine (IE) Universal Image	0.2.1.2	0.2.1.2	
1392	ROM Flash Firmware Package - Server Platform Services (SPS) Firmware for servers using Intel Xeon Scalable 3100/3200/4100/4200/5100/5200/6100/6200/8100/8200 series Processors	OEM.SPSGen10_04.01.04.339.fwpkg	Server Platform Services (SPS) Firmware	04.01.04.339	4.1.4.339	更新
1393	ROM Flash Firmware Package - Server Platform Services Manageability Engine Firmware for the Intel C242 and C246 PCH based systems	OEM.U43U44SPS_05.01.03.094.fwpkg	Server Platform Services (SPS) Firmware	05.01.03.094	05.01.03.094	更新

## 6.2.20 Software - Lights-Out Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
1394	HP Lights-Out Online Configuration Utility for Linux (AMD64/EM64T)	hponcfg-5.5.0-0.x86_64.rpm	-	5.5.0-0	5.5.0-0	
1395	HP Lights-Out Online Configuration Utility for Windows x64 Editions	cp037416.exe	-	5.3.0.0	5.3.0.0	

## 6.2.21 Software - Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
1396	HPE Management Bundle Smart Component for ESXi 6.5	cp040137.zip	-	2019.12.01	2019.12.01	更新
1397	HPE Management Bundle Smart Component for ESXi 6.7	cp040138.zip	-	2019.12.01	2019.12.01	更新



## 6.2.22 Software - Storage Controller

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
1398	HPE Smart Array SR Event Notification Service for Windows Server 64-bit Editions	cp037793.exe	HPE Smart Array P408i-a SR Gen10 Controller	1.2.1.64	1.2.1.64	更新
1399	HPE Smart Array SR Event Notification Service for Windows Server 64-bit Editions	cp037793.exe	HPE Smart Array P408i-p SR Gen10 Controller	1.2.1.64	1.2.1.64	更新
1400	HPE Smart Array SR Event Notification Service for Windows Server 64-bit Editions	cp037793.exe	HPE Smart Array P816i-a SR Gen10 Controller	1.2.1.64	1.2.1.64	更新
1401	HPE Smart Array SR Event Notification Service for Windows Server 64-bit Editions	cp037793.exe	HPE Smart Array E208e-p SR Gen10 Controller	1.2.1.64	1.2.1.64	更新
1402	HPE Smart Array SR Event Notification Service for Windows Server 64-bit Editions	cp037793.exe	HPE Smart Array E208i-p SR Gen10 Controller	1.2.1.64	1.2.1.64	更新
1403	HPE Smart Array SR Event Notification Service for Windows Server 64-bit Editions	cp037793.exe	HPE Smart Array E208i-a SR Gen10 Controller	1.2.1.64	1.2.1.64	更新

## 6.2.23 Software - Storage Fibre Channel

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
1404	Emulex Fibre Channel driver component for VMware vSphere 6.5	cp039582.zip	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	2019.12.01	12.4.242.0-10 EM.650.0.0.4 598673	更新
1405	Emulex Fibre Channel driver component for VMware vSphere 6.5	cp039582.zip	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	2019.12.01	12.4.242.0-10 EM.650.0.0.4 598673	更新
1406	Emulex Fibre Channel driver component for VMware vSphere 6.5	cp039582.zip	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	2019.12.01	12.4.242.0-10 EM.650.0.0.4 598673	更新
1407	Emulex Fibre Channel driver component for VMware vSphere 6.5	cp039582.zip	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	2019.12.01	12.4.242.0-10 EM.650.0.0.4 598673	更新
1408	Emulex Fibre Channel driver component for VMware vSphere 6.7	cp039583.zip	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	2019.12.01	12.4.242.0-10 EM.670.0.0.8 169922	更新
1409	Emulex Fibre Channel driver component for VMware vSphere 6.7	cp039583.zip	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	2019.12.01	12.4.242.0-10 EM.670.0.0.8 169922	更新

1410	Emulex Fibre Channel driver component for VMware vSphere 6.7	cp039583.zip	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	2019.12.01	12.4.242.0-10EM.670.0.0.8169922	更新
1411	Emulex Fibre Channel driver component for VMware vSphere 6.7	cp039583.zip	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	2019.12.01	12.4.242.0-10EM.670.0.0.8169922	更新
1412	QLogic Fibre Channel driver component for VMware vSphere 6.5	cp039712.zip	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	2019.12.01	2.1.94.0-10EM.600.0.0.2768847	更新
1413	QLogic Fibre Channel driver component for VMware vSphere 6.5	cp039712.zip	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	2019.12.01	2.1.94.0-10EM.600.0.0.2768847	更新
1414	QLogic Fibre Channel driver component for VMware vSphere 6.5	cp039712.zip	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	2019.12.01	2.1.94.0-10EM.600.0.0.2768847	更新
1415	QLogic Fibre Channel driver component for VMware vSphere 6.5	cp039712.zip	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	2019.12.01	2.1.94.0-10EM.600.0.0.2768847	更新
1416	QLogic Fibre Channel driver component for VMware vSphere 6.7	cp039713.zip	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	2019.12.01	3.1.29.0-10EM.670.0.0.8169922	更新
1417	QLogic Fibre Channel driver component for VMware vSphere 6.7	cp039713.zip	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	2019.12.01	3.1.29.0-10EM.670.0.0.8169922	更新
1418	QLogic Fibre Channel driver component for VMware vSphere 6.7	cp039713.zip	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	2019.12.01	3.1.29.0-10EM.670.0.0.8169922	更新
1419	QLogic Fibre Channel driver component for VMware vSphere 6.7	cp039713.zip	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	2019.12.01	3.1.29.0-10EM.670.0.0.8169922	更新

#### 6.2.24 Software - Storage Fibre Channel HBA

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
1420	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux -Red Hat Enterprise Linux (RHEL)	fibreutils-4.1-1_rhel.x86_64.rpm	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	4.1-1 (b)	4.1-1_rhel	更新
1421	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux -Red Hat Enterprise Linux (RHEL)	fibreutils-4.1-1_rhel.x86_64.rpm	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	4.1-1 (b)	4.1-1_rhel	更新

1422	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux -Red Hat Enterprise Linux (RHEL)	fibreutils-4.1-1_rhel.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	4.1-1 (b)	4.1-1_rhel	更新
1423	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux -Red Hat Enterprise Linux (RHEL)	fibreutils-4.1-1_rhel.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	4.1-1 (b)	4.1-1_rhel	更新
1424	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux -Red Hat Enterprise Linux (RHEL)	fibreutils-4.1-1_rhel.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	4.1-1 (b)	4.1-1_rhel	更新
1425	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux -Red Hat Enterprise Linux (RHEL)	fibreutils-4.1-1_rhel.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	4.1-1 (b)	4.1-1_rhel	更新
1426	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux -Red Hat Enterprise Linux (RHEL)	fibreutils-4.1-1_rhel.x86_64.rpm	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	4.1-1 (b)	4.1-1_rhel	更新
1427	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux -Red Hat Enterprise Linux (RHEL)	fibreutils-4.1-1_rhel.x86_64.rpm	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	4.1-1 (b)	4.1-1_rhel	更新
1428	HPE Emulex Fibre Channel Enablement Kit for Red Hat Enterprise Linux 7 Server	HP-CNA-FC-Emulex-Enablement-Kit-12.4.256.0-1.rhel7.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	12.4.256.0	12.4.256.0-1.rhel7	更新
1429	HPE Emulex Fibre Channel Enablement Kit for Red Hat Enterprise Linux 7 Server	HP-CNA-FC-Emulex-Enablement-Kit-12.4.256.0-1.rhel7.x86_64.rpm	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	12.4.256.0	12.4.256.0-1.rhel7	更新
1430	HPE Emulex Fibre Channel Enablement Kit for Red Hat Enterprise Linux 7 Server	HP-CNA-FC-Emulex-Enablement-Kit-12.4.256.0-1.rhel7.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	12.4.256.0	12.4.256.0-1.rhel7	更新
1431	HPE Emulex Fibre Channel Enablement Kit for Red Hat Enterprise Linux 7 Server	HP-CNA-FC-Emulex-Enablement-Kit-12.4.256.0-1.rhel7.x86_64.rpm	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	12.4.256.0	12.4.256.0-1.rhel7	更新
1432	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 (e)	1.0.0.0-4	更新
1433	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 (e)	1.0.0.0-4	更新
1434	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 (e)	1.0.0.0-4	更新

1435	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 (e)	1.0.0.0-4	更新
1436	HPE Emulex Smart SAN Enablement Kit for Windows 64 bit operating systems	cp039580.exe	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	1.0.0.1 (i)	1.0.0.1 (i)	更新
1437	HPE Emulex Smart SAN Enablement Kit for Windows 64 bit operating systems	cp039580.exe	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	1.0.0.1 (i)	1.0.0.1 (i)	更新
1438	HPE Emulex Smart SAN Enablement Kit for Windows 64 bit operating systems	cp039580.exe	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	1.0.0.1 (i)	1.0.0.1 (i)	更新
1439	HPE Emulex Smart SAN Enablement Kit for Windows 64 bit operating systems	cp039580.exe	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	1.0.0.1 (i)	1.0.0.1 (i)	更新
1440	HPE QLogic Fibre Channel Enablement Kit for Linux	HP-CNA-FC-hpqlgc-Enablement-Kit-6.0.0.0-11.noarch.rpm	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	6.0.0.0-11 (b)	6.0.0.0-11	更新
1441	HPE QLogic Fibre Channel Enablement Kit for Linux	HP-CNA-FC-hpqlgc-Enablement-Kit-6.0.0.0-11.noarch.rpm	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	6.0.0.0-11 (b)	6.0.0.0-11	更新
1442	HPE QLogic Fibre Channel Enablement Kit for Linux	HP-CNA-FC-hpqlgc-Enablement-Kit-6.0.0.0-11.noarch.rpm	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	6.0.0.0-11 (b)	6.0.0.0-11	更新
1443	HPE QLogic Fibre Channel Enablement Kit for Linux	HP-CNA-FC-hpqlgc-Enablement-Kit-6.0.0.0-11.noarch.rpm	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	6.0.0.0-11 (b)	6.0.0.0-11	更新
1444	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 (h)	3.3-3	更新
1445	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 (h)	3.3-3	更新
1446	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 (h)	3.3-3	更新
1447	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 (h)	3.3-3	更新

1448	HPE QLogic Smart SAN Enablement Kit for Windows 64 bit operating systems	cp039719.exe	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	1.0.0.1 (i)	1.0.0.1 (i)	更新
1449	HPE QLogic Smart SAN Enablement Kit for Windows 64 bit operating systems	cp039719.exe	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	1.0.0.1 (i)	1.0.0.1 (i)	更新
1450	HPE QLogic Smart SAN Enablement Kit for Windows 64 bit operating systems	cp039719.exe	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	1.0.0.1 (i)	1.0.0.1 (i)	更新
1451	HPE QLogic Smart SAN Enablement Kit for Windows 64 bit operating systems	cp039719.exe	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	1.0.0.1 (i)	1.0.0.1 (i)	更新

### 6.2.25 Software - System Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
1452	Agentless Management Service (iLO 5) for Red Hat Enterprise Linux 7 Server	amsd-2.1.0-1406.73.rhel7.x86_64.rpm	-	2.1.0	2.1.0-1406.73.rhel7	更新
1453	Agentless Management Service for Windows X64	cp040001.exe	-	2.10.0.0	2.10.0.0	更新
1454	NVMe Drive Eject NMI Fix for Intel Xeon Processor Scalable Family for Windows	cp034635.exe	-	1.1.0.0 (C)	1.1.0.0 (C)	
1455	Smart Storage Administrator (SSA) CLI for Linux 64-bit	ssacli-4.15-6.0.x86_64.rpm	-	4.15.6.0	4.15-6.0	更新
1456	Smart Storage Administrator (SSA) CLI for Windows 64-bit	cp041177.exe	-	4.15.6.0	4.15.6.0	更新
1457	Smart Storage Administrator (SSA) for Linux 64-bit	ssa-4.15-6.0.x86_64.rpm	-	4.15.6.0	4.15-6.0	更新
1458	Smart Storage Administrator (SSA) for Windows 64-bit	cp041176.exe	-	4.15.6.0	4.15.6.0	更新
1459	Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Linux 64-bit	ssaducli-4.15-6.0.x86_64.rpm	-	4.15.6.0	4.15-6.0	更新
1460	Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Windows 64-bit	cp041178.exe	-	4.15.6.0	4.15.6.0	更新

### 6.2.26 Utility - Tools

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
1461	HPE Utilities Bundle Smart Component for ESXi 6.5	cp040886.zip	-	2019.12.01	2019.12.01	更新
1462	HPE Utilities Bundle Smart Component for ESXi 6.7	cp040887.zip	-	2019.12.01	2019.12.01	更新

## 6.3 パッケージの変更内容

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### Integrated Smart Update Tools 2.5.0 for ESXi 6.5

Version: 2019.12.01 (Recommended)

#### **Important Note!**

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

#### **Prerequisites**

Before you can update or patch an vSphere 6.5 host from the command line, you must have access to a machine on which you can run the VMware vSphere Command-Line Interface 6.5 (vSphere CLI). You can install the vSphere CLI on your Microsoft Windows or Linux system. For information about importing or installing the vSphereCLI 6.5, see the VMware vSphere Command-Line Interface Guides.

#### **Fixes**

See the iSUT Release Notes for information about the issues resolved in this release

#### **Enhancements**

See the iSUT Release Notes for information about the issues resolved in this release

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### Integrated Smart Update Tools 2.5.0 for ESXi 6.7

Version: 2019.12.01 (Recommended)

#### **Important Note!**

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

#### **Prerequisites**

Before you can update or patch an vSphere 6.7 host from the command line, you must have access to a machine on which you can run the VMware vSphere Command-Line Interface 6.7 (vSphere CLI). You can install the vSphere CLI on your Microsoft Windows or Linux system. For information about importing or installing the vSphereCLI 6.7, see the VMware vSphere Command-Line Interface Guides.

#### **Fixes**

See the iSUT Release Notes for information about the issues resolved in this release

#### **Enhancements**

See the iSUT Release Notes for information about the issues resolved in this release

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### Integrated Smart Update Tools for Linux x64

Version: 2.5.0.0 (Recommended)

#### **Important Note!**

Please note the following:

SUT requires a Service Pack for ProLiant-based ISO containing Smart Update Manager (SUM) 8.0.0 or later. If an earlier version of SUM is used, SUT will notify the user that SUM 8.0.0 and later is required. SUT uses the iLO RESTful Tool to communicate with iLO. iLO RESTful Tool is included with the SUT component and is installed as part of the SUT installation process. If an earlier version of the iLO RESTful Tool is already installed on a server, the iLO RESTful Tool provided with SUT will be upgraded on the server. SUT will service HP ProLiant Gen8 and later versions and requires iLO 4 firmware version 2.51 or later. For Gen10 and above we need iLO 5 firmware version 1.11 or later. Smart Update Tools requires iLO Advanced Pack license.

### **Prerequisites**

For prerequisite information, please see the iSUT Release Notes.

### **Fixes**

See the iSUT Release Notes for information about the enhancements in this release

### **Enhancements**

See the iSUT Release Notes for information about the enhancements in this release

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## **Integrated Smart Update Tools for Windows x64**

Version: 2.5.0.0 (Recommended)

### **Important Note!**

Please note the following:

SUT requires a Service Pack for ProLiant-based ISO containing Smart Update Manager (SUM) 8.0.0 or later. If an earlier version of SUM is used, SUT will notify the user that SUM 8.0.0 and later is required. SUT uses the iLO RESTful Tool to communicate with iLO. iLO RESTful Tool is included with the SUT component and is installed as part of the SUT installation process. If an earlier version of the iLO RESTful Tool is already installed on a server, the iLO RESTful Tool provided with SUT will be upgraded on the server. SUT will service HP ProLiant Gen8 and later versions and requires iLO 4 firmware version 2.51 or later. For Gen10 and above we need iLO 5 firmware version 1.11 or later. Smart Update Tools requires iLO Advanced Pack license.

### **Prerequisites**

For prerequisite information, please see the iSUT Release Notes.

### **Fixes**

See the iSUT Release Notes for information about the issues resolved in this release

### **Enhancements**

See the iSUT Release Notes for information about the issues resolved in this release

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

Version: 2.22\_11-13-2019 (Optional)

## Fixes

- This revision of the System ROM includes the latest support for Intel Trusted eXecution Technology (TXT) which provides mitigation for CVE-2019-151. This mitigation is only needed for systems that have TXT enabled. This issue is not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code support that provides mitigations for the multiple security vulnerabilities. The following vulnerabilities have been addressed in this System ROM release: CVE-2019-11137, CVE-2019-152, and CVE-2019-11136. These issues are not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an CVE-2017-5715, CVE-2019-11135 and CVE-2019-11139. These issues are not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an Intel sighting where under complex micro-architectural conditions, executing X87 or AVX or integer divide instructions may results in unpredictable system behavior. This issue is not unique to HITACHI servers.
- Addressed an issue where the system may become unresponsive during POST when both iLO and the server are reset simultaneously.
- Addressed an issue where the server may experience a Red Screen (RSOD) during boot when a Matrox GPU is present and the server is booting in Legacy Boot Mode. This problem could occur with other optional PCIe graphics adapters. This issue is not intermittent and will occur on every boot with impacted optional PCIe graphics adapters with previous System ROM revisions. This issue is not seen with servers configured in UEFI Boot Mode or when using the embedded graphics controller.
- Addressed an issue where the system may incorrectly report that a DIMM has been mapped out after a memory training failure in the Integrated Management Log (IML) when the DIMM is still present in the system memory map. The IML will now correctly indicate the memory training failure, but will not indicate that the DIMM has been mapped out. This change only impacts the IML logging of the error and does not impact the operation of the system.
- This version of the System ROM includes the latest revision of the Intel microcode which addresses an issue where the system may experience an unexpected machine check exception. This issue would be logged to the Integrated Management Log (IML) as a Bank 0x03 or Bank 0x04 with status 0xBE000000'00800400 or 0xFE000000'00800400 Machine Check Exception. This issue is not unique to Hitachi servers.
- This version of the System ROM includes the latest version of the Intel microcode which addresses an issue where under complex microarchitectural conditions involving branch instructions that span multiple 64 byte boundaries, unpredictable system behavior may occur. This issue is not unique to Hitachi servers.
- Addressed an issue where certain 2933Mhz LRDIMMs may experience an uncorrectable memory error when operating with a Second Generation Intel Xeon Scalable Processor. This issue can be seen when processor c-states are enabled on the platform. This issue does not impact 2666Mhz LRDIMMs or any speed RDIMM. Hitachi recommends that customers experiencing an uncorrectable memory error in one of these configurations update to this version of the System ROM before replacing any memory. This



issue is not unique to Hitachi servers.

### **Enhancements**

- Updated to the latest thermal support for the platform.
- Updated the language translations (non-English modes) for System Utilities.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.
- Added support for Network Choice (NC) SKUs of the DL380 Gen10 Server. These server SKUs do not include the embedded NIC. This revision of the System ROM supports all SKUs of the DL360 Gen10 Server, but does not include any new functionality or issue fixes for non-NC SKUs.

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

Version: 2.22\_11-13-2019 (Optional)

### **Fixes**

- This revision of the System ROM includes the latest support for Intel Trusted eXecution Technology (TXT) which provides mitigation for CVE-2019-151. This mitigation is only needed for systems that have TXT enabled. This issue is not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code support that provides mitigations for the multiple security vulnerabilities. The following vulnerabilities have been addressed in this System ROM release: CVE-2019-11137, CVE-2019-152, and CVE-2019-11136. These issues are not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an CVE-2017-5715, CVE-2019-11135 and CVE-2019-11139. These issues are not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an Intel sighting where under complex micro-architectural conditions, executing X87 or AVX or integer divide instructions may results in unpredictable system behavior. This issue is not unique to HITACHI servers.
- Addressed an issue where the system may become unresponsive during POST when both iLO and the server are reset simultaneously.
- Addressed an issue where the server may experience a Red Screen (RSOD) during boot when a Matrox GPU is present and the server is booting in Legacy Boot Mode. This problem could occur with other optional PCIe graphics adapters. This issue is not intermittent and will occur on every boot with impacted optional PCIe graphics adapters with previous System ROM revisions. This issue is not seen with servers configured in UEFI Boot Mode or when using the embedded graphics controller.
- Addressed an issue where the system may incorrectly report that a DIMM has been mapped out after a memory training failure in the Integrated Management Log (IML) when the DIMM is still present in the system memory map. The IML will now correctly indicate the memory training failure, but will not indicate that the DIMM has been mapped out. This change only impacts the IML logging of the error and does not impact the operation of the system.
- This version of the System ROM includes the latest revision of the Intel microcode which addresses an

issue where the system may experience an unexpected machine check exception. This issue would be logged to the Integrated Management Log (IML) as a Bank 0x03 or Bank 0x04 with status 0xBE000000'00800400 or 0xFE000000'00800400 Machine Check Exception. This issue is not unique to Hitachi servers.

- This version of the System ROM includes the latest version of the Intel microcode which addresses an issue where under complex microarchitectural conditions involving branch instructions that span multiple 64 byte boundaries, unpredictable system behavior may occur. This issue is not unique to Hitachi servers.
- Addressed an issue where certain 2933Mhz LRDIMMs may experience an uncorrectable memory error when operating with a Second Generation Intel Xeon Scalable Processor. This issue can be seen when processor c-states are enabled on the platform. This issue does not impact 2666Mhz LRDIMMs or any speed RDIMM. Hitachi recommends that customers experiencing an uncorrectable memory error in one of these configurations update to this version of the System ROM before replacing any memory. This issue is not unique to Hitachi servers.

### **Enhancements**

- Updated to the latest thermal support for the platform.
- Updated the language translations (non-English modes) for System Utilities.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.
- Added support for Network Choice (NC) SKUs of the DL380 Gen10 Server. These server SKUs do not include the embedded NIC. This revision of the System ROM supports all SKUs of the DL360 Gen10 Server, but does not include any new functionality or issue fixes for non-NC SKUs.

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

Version: 2.22\_11-13-2019 (Optional)

### **Fixes**

- This revision of the System ROM includes the latest support for Intel Trusted eXecution Technology (TXT) which provides mitigation for CVE-2019-151. This mitigation is only needed for systems that have TXT enabled. This issue is not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code support that provides mitigations for the multiple security vulnerabilities. The following vulnerabilities have been addressed in this System ROM release: CVE-2019-11137, CVE-2019-152, and CVE-2019-11136. These issues are not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an CVE-2017-5715, CVE-2019-11135 and CVE-2019-11139. These issues are not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an Intel sighting where under complex micro-architectural conditions, executing X87 or AVX or integer divide instructions may results in unpredictable system behavior. This issue is not unique

to HITACHI servers.

- Addressed an issue where the system may become unresponsive during POST when both iLO and the server are reset simultaneously.
- Addressed an issue where the server may experience a Red Screen (RSOD) during boot when a Matrox GPU is present and the server is booting in Legacy Boot Mode. This problem could occur with other optional PCIe graphics adapters. This issue is not intermittent and will occur on every boot with impacted optional PCIe graphics adapters with previous System ROM revisions. This issue is not seen with servers configured in UEFI Boot Mode or when using the embedded graphics controller.
- Addressed an issue where the system may incorrectly report that a DIMM has been mapped out after a memory training failure in the Integrated Management Log (IML) when the DIMM is still present in the system memory map. The IML will now correctly indicate the memory training failure, but will not indicate that the DIMM has been mapped out. This change only impacts the IML logging of the error and does not impact the operation of the system.
- This version of the System ROM includes the latest revision of the Intel microcode which addresses an issue where the system may experience an unexpected machine check exception. This issue would be logged to the Integrated Management Log (IML) as a Bank 0x03 or Bank 0x04 with status 0xBE000000'00800400 or 0xFE000000'00800400 Machine Check Exception. This issue is not unique to Hitachi servers.
- This version of the System ROM includes the latest version of the Intel microcode which addresses an issue where under complex microarchitectural conditions involving branch instructions that span multiple 64 byte boundaries, unpredictable system behavior may occur. This issue is not unique to Hitachi servers.
- Addressed an issue where certain 2933Mhz LRDIMMs may experience an uncorrectable memory error when operating with a Second Generation Intel Xeon Scalable Processor. This issue can be seen when processor c-states are enabled on the platform. This issue does not impact 2666Mhz LRDIMMs or any speed RDIMM. Hitachi recommends that customers experiencing an uncorrectable memory error in one of these configurations update to this version of the System ROM before replacing any memory. This issue is not unique to Hitachi servers.

### **Enhancements**

- Updated to the latest thermal support for the platform.
- Updated the language translations (non-English modes) for System Utilities.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.
- Added support for Network Choice (NC) SKUs of the DL380 Gen10 Server. These server SKUs do not include the embedded NIC. This revision of the System ROM supports all SKUs of the DL360 Gen10 Server, but does not include any new functionality or issue fixes for non-NC SKUs.

## Fixes

- This revision of the System ROM includes the latest support for Intel Trusted eXecution Technology (TXT) which provides mitigation for CVE-2019-151. This mitigation is only needed for systems that have TXT enabled. This issue is not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code support that provides mitigations for the multiple security vulnerabilities. The following vulnerabilities have been addressed in this System ROM release: CVE-2019-11137, CVE-2019-152, and CVE-2019-11136. These issues are not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an CVE-2017-5715, CVE-2019-11135 and CVE-2019-11139. These issues are not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an Intel sighting where under complex micro-architectural conditions, executing X87 or AVX or integer divide instructions may results in unpredictable system behavior. This issue is not unique to HITACHI servers.
- Addressed an issue where the system may become unresponsive during POST when both iLO and the server are reset simultaneously.
- Addressed an issue where the server may experience a Red Screen (RSOD) during boot when a Matrox GPU is present and the server is booting in Legacy Boot Mode. This problem could occur with other optional PCIe graphics adapters. This issue is not intermittent and will occur on every boot with impacted optional PCIe graphics adapters with previous System ROM revisions. This issue is not seen with servers configured in UEFI Boot Mode or when using the embedded graphics controller.
- Addressed an issue where the system may incorrectly report that a DIMM has been mapped out after a memory training failure in the Integrated Management Log (IML) when the DIMM is still present in the system memory map. The IML will now correctly indicate the memory training failure, but will not indicate that the DIMM has been mapped out. This change only impacts the IML logging of the error and does not impact the operation of the system.
- This version of the System ROM includes the latest revision of the Intel microcode which addresses an issue where the system may experience an unexpected machine check exception. This issue would be logged to the Integrated Management Log (IML) as a Bank 0x03 or Bank 0x04 with status 0xBE000000'00800400 or 0xFE000000'00800400 Machine Check Exception. This issue is not unique to Hitachi servers.
- This version of the System ROM includes the latest version of the Intel microcode which addresses an issue where under complex microarchitectural conditions involving branch instructions that span multiple 64 byte boundaries, unpredictable system behavior may occur. This issue is not unique to Hitachi servers.
- Addressed an issue where certain 2933Mhz LRDIMMs may experience an uncorrectable memory error when operating with a Second Generation Intel Xeon Scalable Processor. This issue can be seen when processor c-states are enabled on the platform. This issue does not impact 2666Mhz LRDIMMs or any speed RDIMM. Hitachi recommends that customers experiencing an uncorrectable memory error in one of these configurations update to this version of the System ROM before replacing any memory. This

issue is not unique to Hitachi servers.

### **Enhancements**

- Updated to the latest thermal support for the platform.
- Updated the language translations (non-English modes) for System Utilities.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.
- Added support for Network Choice (NC) SKUs of the DL380 Gen10 Server. These server SKUs do not include the embedded NIC. This revision of the System ROM supports all SKUs of the DL360 Gen10 Server, but does not include any new functionality or issue fixes for non-NC SKUs.

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### **Online ROM Flash Component for Linux - System ROM U43**

Version: 2.10\_09-12-2019 (Optional)

### **Fixes**

- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for CVE-2017-5715, CVE-2019-11135, CVE-2018-12126, CVE-2018-12127, CVE-2018-12130, and CVE-2018-11091. These issues are not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an Intel sighting where under complex micro-architectural conditions, executing X87 or AVX or integer divide instructions may results in unpredictable system behavior. This issue is not unique to HITACHI servers.
- Addressed an issue where the server may experience a Red Screen (RSOD) during boot when a Matrox GPU is present and the server is booting in Legacy Boot Mode. This problem could occur with other optional PCIe graphics adapters. This issue is not intermittent and will occur on every boot with impacted optional PCIe graphics adapters with previous System ROM revisions. This issue is not seen with servers configured in UEFI Boot Mode or when using the embedded graphics controller.
- Addressed an issue where the Intel (Software Guard Extensions) SGX remote attestation functionality would not work correctly. This only affects customers who have installed Intel SGX enabled applications and have enabled SGX in RBSU.
- Addressed an issue where the Server Backup and Restore functionality may not work properly if initiated through the RESTful API returning a message "An internal error occurred during RIS operation".
- Addressed an issue where the NVMe PCIe Resource Padding option in BIOS/Platform Configuration (RBSU) would not properly allocated sufficient resources to support a NVMe hot add event. In certain configurations, an insufficient amount of resources would have been reserved and a reboot would have been required to detect the presence of the newly added drive.
- Addressed an issue where the system would not boot to a USB drive when a non-bootable (non-formatted) drive was also present in the system. This issue only impacts systems configured in Legacy Boot Mode.

## **Enhancements/New Features**

- Updated the UEFI OpenSSL support to version 1.0.2r to address security vulnerability CVE-2019-1559.
- Updated the system thermal logic to support the latest system configurations.

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## **Online ROM Flash Component for Linux - System ROM U44**

Version: 2.10\_09-12-2019 (Optional)

### **Fixes**

- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for CVE-2017-5715, CVE-2019-11135, CVE-2018-12126, CVE-2018-12127, CVE-2018-12130, and CVE-2018-11091. These issues are not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an Intel sighting where under complex micro-architectural conditions, executing X87 or AVX or integer divide instructions may results in unpredictable system behavior. This issue is not unique to HITACHI servers.
- Addressed an issue where the server may experience a Red Screen (RSOD) during boot when a Matrox GPU is present and the server is booting in Legacy Boot Mode. This problem could occur with other optional PCIe graphics adapters. This issue is not intermittent and will occur on every boot with impacted optional PCIe graphics adapters with previous System ROM revisions. This issue is not seen with servers configured in UEFI Boot Mode or when using the embedded graphics controller.
- Addressed an issue where the Intel (Software Guard Extensions) SGX remote attestation functionality would not work correctly. This only affects customers who have installed Intel SGX enabled applications and have enabled SGX in RBSU.
- Addressed an issue where the Server Backup and Restore functionality may not work properly if initiated through the RESTful API returning a message "An internal error occurred during RIS operation".
- Addressed an issue where the NVMe PCIe Resource Padding option in BIOS/Platform Configuration (RBSU) would not properly allocated sufficient resources to support a NVMe hot add event. In certain configurations, an insufficient amount of resources would have been reserved and a reboot would have been required to detect the presence of the newly added drive.
- Addressed an issue where the system would not boot to a USB drive when a non-bootable (non-formatted) drive was also present in the system. This issue only impacts systems configured in Legacy Boot Mode.

## **Enhancements/New Features**

- Updated the UEFI OpenSSL support to version 1.0.2r to address security vulnerability CVE-2019-1559.
- Updated the system thermal logic to support the latest system configurations.

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

Version: 2.22\_11-13-2019 (Optional)

## Fixes

- This revision of the System ROM includes the latest support for Intel Trusted eXecution Technology (TXT) which provides mitigation for CVE-2019-151. This mitigation is only needed for systems that have TXT enabled. This issue is not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code support that provides mitigations for the multiple security vulnerabilities. The following vulnerabilities have been addressed in this System ROM release: CVE-2019-11137, CVE-2019-152, and CVE-2019-11136. These issues are not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an CVE-2017-5715, CVE-2019-11135 and CVE-2019-11139. These issues are not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an Intel sighting where under complex micro-architectural conditions, executing X87 or AVX or integer divide instructions may results in unpredictable system behavior. This issue is not unique to HITACHI servers.
- Addressed an issue where the system may become unresponsive during POST when both iLO and the server are reset simultaneously.
- Addressed an issue where the server may experience a Red Screen (RSOD) during boot when a Matrox GPU is present and the server is booting in Legacy Boot Mode. This problem could occur with other optional PCIe graphics adapters. This issue is not intermittent and will occur on every boot with impacted optional PCIe graphics adapters with previous System ROM revisions. This issue is not seen with servers configured in UEFI Boot Mode or when using the embedded graphics controller.
- Addressed an issue where the system may incorrectly report that a DIMM has been mapped out after a memory training failure in the Integrated Management Log (IML) when the DIMM is still present in the system memory map. The IML will now correctly indicate the memory training failure, but will not indicate that the DIMM has been mapped out. This change only impacts the IML logging of the error and does not impact the operation of the system.
- This version of the System ROM includes the latest revision of the Intel microcode which addresses an issue where the system may experience an unexpected machine check exception. This issue would be logged to the Integrated Management Log (IML) as a Bank 0x03 or Bank 0x04 with status 0xBE000000'00800400 or 0xFE000000'00800400 Machine Check Exception. This issue is not unique to Hitachi servers.
- This version of the System ROM includes the latest version of the Intel microcode which addresses an issue where under complex microarchitectural conditions involving branch instructions that span multiple 64 byte boundaries, unpredictable system behavior may occur. This issue is not unique to Hitachi servers.
- Addressed an issue where certain 2933Mhz LRDIMMs may experience an uncorrectable memory error when operating with a Second Generation Intel Xeon Scalable Processor. This issue can be seen when processor c-states are enabled on the platform. This issue does not impact 2666Mhz LRDIMMs or any speed RDIMM. Hitachi recommends that customers experiencing an uncorrectable memory error in one of these configurations update to this version of the System ROM before replacing any memory. This

issue is not unique to Hitachi servers.

### **Enhancements**

- Updated to the latest thermal support for the platform.
- Updated the language translations (non-English modes) for System Utilities.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.
- Added support for Network Choice (NC) SKUs of the DL380 Gen10 Server. These server SKUs do not include the embedded NIC. This revision of the System ROM supports all SKUs of the DL360 Gen10 Server, but does not include any new functionality or issue fixes for non-NC SKUs.

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

Version: 2.22\_11-13-2019 (Optional)

### **Fixes**

- This revision of the System ROM includes the latest support for Intel Trusted eXecution Technology (TXT) which provides mitigation for CVE-2019-151. This mitigation is only needed for systems that have TXT enabled. This issue is not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code support that provides mitigations for the multiple security vulnerabilities. The following vulnerabilities have been addressed in this System ROM release: CVE-2019-11137, CVE-2019-152, and CVE-2019-11136. These issues are not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an CVE-2017-5715, CVE-2019-11135 and CVE-2019-11139. These issues are not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an Intel sighting where under complex micro-architectural conditions, executing X87 or AVX or integer divide instructions may results in unpredictable system behavior. This issue is not unique to HITACHI servers.
- Addressed an issue where the system may become unresponsive during POST when both iLO and the server are reset simultaneously.
- Addressed an issue where the server may experience a Red Screen (RSOD) during boot when a Matrox GPU is present and the server is booting in Legacy Boot Mode. This problem could occur with other optional PCIe graphics adapters. This issue is not intermittent and will occur on every boot with impacted optional PCIe graphics adapters with previous System ROM revisions. This issue is not seen with servers configured in UEFI Boot Mode or when using the embedded graphics controller.
- Addressed an issue where the system may incorrectly report that a DIMM has been mapped out after a memory training failure in the Integrated Management Log (IML) when the DIMM is still present in the system memory map. The IML will now correctly indicate the memory training failure, but will not indicate that the DIMM has been mapped out. This change only impacts the IML logging of the error and does not impact the operation of the system.



- This version of the System ROM includes the latest revision of the Intel microcode which addresses an issue where the system may experience an unexpected machine check exception. This issue would be logged to the Integrated Management Log (IML) as a Bank 0x03 or Bank 0x04 with status 0xBE000000'00800400 or 0xFE000000'00800400 Machine Check Exception. This issue is not unique to Hitachi servers.
- This version of the System ROM includes the latest version of the Intel microcode which addresses an issue where under complex microarchitectural conditions involving branch instructions that span multiple 64 byte boundaries, unpredictable system behavior may occur. This issue is not unique to Hitachi servers.
- Addressed an issue where certain 2933Mhz LRDIMMs may experience an uncorrectable memory error when operating with a Second Generation Intel Xeon Scalable Processor. This issue can be seen when processor c-states are enabled on the platform. This issue does not impact 2666Mhz LRDIMMs or any speed RDIMM. Hitachi recommends that customers experiencing an uncorrectable memory error in one of these configurations update to this version of the System ROM before replacing any memory. This issue is not unique to Hitachi servers.

### **Enhancements**

- Updated to the latest thermal support for the platform.
- Updated the language translations (non-English modes) for System Utilities.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.
- Added support for Network Choice (NC) SKUs of the DL380 Gen10 Server. These server SKUs do not include the embedded NIC. This revision of the System ROM supports all SKUs of the DL360 Gen10 Server, but does not include any new functionality or issue fixes for non-NC SKUs.

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### **Online ROM Flash Component for Windows x64 - System ROM U32**

Version: 2.22\_11-13-2019 (Optional)

### **Fixes**

- This revision of the System ROM includes the latest support for Intel Trusted eXecution Technology (TXT) which provides mitigation for CVE-2019-151. This mitigation is only needed for systems that have TXT enabled. This issue is not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code support that provides mitigations for the multiple security vulnerabilities. The following vulnerabilities have been addressed in this System ROM release: CVE-2019-11137, CVE-2019-152, and CVE-2019-11136. These issues are not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an CVE-2017-5715, CVE-2019-11135 and CVE-2019-11139. These issues are not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an Intel sighting where under complex micro-architectural conditions, executing X87 or

AVX or integer divide instructions may result in unpredictable system behavior. This issue is not unique to HITACHI servers.

- Addressed an issue where the system may become unresponsive during POST when both iLO and the server are reset simultaneously.
- Addressed an issue where the server may experience a Red Screen (RSOD) during boot when a Matrox GPU is present and the server is booting in Legacy Boot Mode. This problem could occur with other optional PCIe graphics adapters. This issue is not intermittent and will occur on every boot with impacted optional PCIe graphics adapters with previous System ROM revisions. This issue is not seen with servers configured in UEFI Boot Mode or when using the embedded graphics controller.
- Addressed an issue where the system may incorrectly report that a DIMM has been mapped out after a memory training failure in the Integrated Management Log (IML) when the DIMM is still present in the system memory map. The IML will now correctly indicate the memory training failure, but will not indicate that the DIMM has been mapped out. This change only impacts the IML logging of the error and does not impact the operation of the system.
- This version of the System ROM includes the latest revision of the Intel microcode which addresses an issue where the system may experience an unexpected machine check exception. This issue would be logged to the Integrated Management Log (IML) as a Bank 0x03 or Bank 0x04 with status 0xBE000000'00800400 or 0xFE000000'00800400 Machine Check Exception. This issue is not unique to Hitachi servers.
- This version of the System ROM includes the latest version of the Intel microcode which addresses an issue where under complex microarchitectural conditions involving branch instructions that span multiple 64 byte boundaries, unpredictable system behavior may occur. This issue is not unique to Hitachi servers.
- Addressed an issue where certain 2933Mhz LRDIMMs may experience an uncorrectable memory error when operating with a Second Generation Intel Xeon Scalable Processor. This issue can be seen when processor c-states are enabled on the platform. This issue does not impact 2666Mhz LRDIMMs or any speed RDIMM. Hitachi recommends that customers experiencing an uncorrectable memory error in one of these configurations update to this version of the System ROM before replacing any memory. This issue is not unique to Hitachi servers.

### **Enhancements**

- Updated to the latest thermal support for the platform.
- Updated the language translations (non-English modes) for System Utilities.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.
- Added support for Network Choice (NC) SKUs of the DL380 Gen10 Server. These server SKUs do not include the embedded NIC. This revision of the System ROM supports all SKUs of the DL360 Gen10 Server, but does not include any new functionality or issue fixes for non-NC SKUs.

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

Version: 2.22\_11-13-2019 (Optional)

### Fixes

- This revision of the System ROM includes the latest support for Intel Trusted eXecution Technology (TXT) which provides mitigation for CVE-2019-151. This mitigation is only needed for systems that have TXT enabled. This issue is not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code support that provides mitigations for the multiple security vulnerabilities. The following vulnerabilities have been addressed in this System ROM release: CVE-2019-11137, CVE-2019-152, and CVE-2019-11136. These issues are not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an CVE-2017-5715, CVE-2019-11135 and CVE-2019-11139. These issues are not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an Intel sighting where under complex micro-architectural conditions, executing X87 or AVX or integer divide instructions may results in unpredictable system behavior. This issue is not unique to HITACHI servers.
- Addressed an issue where the system may become unresponsive during POST when both iLO and the server are reset simultaneously.
- Addressed an issue where the server may experience a Red Screen (RSOD) during boot when a Matrox GPU is present and the server is booting in Legacy Boot Mode. This problem could occur with other optional PCIe graphics adapters. This issue is not intermittent and will occur on every boot with impacted optional PCIe graphics adapters with previous System ROM revisions. This issue is not seen with servers configured in UEFI Boot Mode or when using the embedded graphics controller.
- Addressed an issue where the system may incorrectly report that a DIMM has been mapped out after a memory training failure in the Integrated Management Log (IML) when the DIMM is still present in the system memory map. The IML will now correctly indicate the memory training failure, but will not indicate that the DIMM has been mapped out. This change only impacts the IML logging of the error and does not impact the operation of the system.
- This version of the System ROM includes the latest revision of the Intel microcode which addresses an issue where the system may experience an unexpected machine check exception. This issue would be logged to the Integrated Management Log (IML) as a Bank 0x03 or Bank 0x04 with status 0xBE000000'00800400 or 0xFE000000'00800400 Machine Check Exception. This issue is not unique to Hitachi servers.
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- Addressed an issue where certain 2933Mhz LRDIMMs may experience an uncorrectable memory error when operating with a Second Generation Intel Xeon Scalable Processor. This issue can be seen when

processor c-states are enabled on the platform. This issue does not impact 2666Mhz LRDIMMs or any speed RDIMM. Hitachi recommends that customers experiencing an uncorrectable memory error in one of these configurations update to this version of the System ROM before replacing any memory. This issue is not unique to Hitachi servers.

### **Enhancements**

- Updated to the latest thermal support for the platform.
- Updated the language translations (non-English modes) for System Utilities.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.
- Added support for Network Choice (NC) SKUs of the DL380 Gen10 Server. These server SKUs do not include the embedded NIC. This revision of the System ROM supports all SKUs of the DL360 Gen10 Server, but does not include any new functionality or issue fixes for non-NC SKUs.

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### **Online ROM Flash Component for Windows x64 - System ROM U43**

Version: 2.10\_09-12-2019 (Optional)

### **Fixes**

- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for CVE-2017-5715, CVE-2019-11135, CVE-2018-12126, CVE-2018-12127, CVE-2018-12130, and CVE-2018-11091. These issues are not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an Intel sighting where under complex micro-architectural conditions, executing X87 or AVX or integer divide instructions may results in unpredictable system behavior. This issue is not unique to HITACHI servers.
- Addressed an issue where the server may experience a Red Screen (RSOD) during boot when a Matrox GPU is present and the server is booting in Legacy Boot Mode. This problem could occur with other optional PCIe graphics adapters. This issue is not intermittent and will occur on every boot with impacted optional PCIe graphics adapters with previous System ROM revisions. This issue is not seen with servers configured in UEFI Boot Mode or when using the embedded graphics controller.
- Addressed an issue where the Intel (Software Guard Extensions) SGX remote attestation functionality would not work correctly. This only affects customers who have installed Intel SGX enabled applications and have enabled SGX in RBSU.
- Addressed an issue where the Server Backup and Restore functionality may not work properly if initiated through the RESTful API returning a message "An internal error occurred during RIS operation".
- Addressed an issue where the NVMe PCIe Resource Padding option in BIOS/Platform Configuration (RBSU) would not properly allocated sufficient resources to support a NVMe hot add event. In certain configurations, an insufficient amount of resources would have been reserved and a reboot would have been required to detect the presence of the newly added drive.
- Addressed an issue where the system would not boot to a USB drive when a non-bootable (non-formatted) drive was also present in the system. This issue only impacts systems configured in

Legacy Boot Mode.

### **Enhancements/New Features**

- Updated the UEFI OpenSSL support to version 1.0.2r to address security vulnerability CVE-2019-1559.
- Updated the system thermal logic to support the latest system configurations.

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## **Online ROM Flash Component for Windows x64 - System ROM U44**

Version: 2.10\_09-12-2019 (Optional)

### **Fixes**

- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for CVE-2017-5715, CVE-2019-11135, CVE-2018-12126, CVE-2018-12127, CVE-2018-12130, and CVE-2018-11091. These issues are not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an Intel sighting where under complex micro-architectural conditions, executing X87 or AVX or integer divide instructions may results in unpredictable system behavior. This issue is not unique to HITACHI servers.
- Addressed an issue where the server may experience a Red Screen (RSOD) during boot when a Matrox GPU is present and the server is booting in Legacy Boot Mode. This problem could occur with other optional PCIe graphics adapters. This issue is not intermittent and will occur on every boot with impacted optional PCIe graphics adapters with previous System ROM revisions. This issue is not seen with servers configured in UEFI Boot Mode or when using the embedded graphics controller.
- Addressed an issue where the Intel (Software Guard Extensions) SGX remote attestation functionality would not work correctly. This only affects customers who have installed Intel SGX enabled applications and have enabled SGX in RBSU.
- Addressed an issue where the Server Backup and Restore functionality may not work properly if initiated through the RESTful API returning a message "An internal error occurred during RIS operation".
- Addressed an issue where the NVMe PCIe Resource Padding option in BIOS/Platform Configuration (RBSU) would not properly allocated sufficient resources to support a NVMe hot add event. In certain configurations, an insufficient amount of resources would have been reserved and a reboot would have been required to detect the presence of the newly added drive.
- Addressed an issue where the system would not boot to a USB drive when a non-bootable (non-formatted) drive was also present in the system. This issue only impacts systems configured in Legacy Boot Mode.

### **Enhancements/New Features**

- Updated the UEFI OpenSSL support to version 1.0.2r to address security vulnerability CVE-2019-1559.
- Updated the system thermal logic to support the latest system configurations.

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## ROM Flash Firmware Package - System ROM U30

Version: 2.22\_11-13-2019 (Optional)

### Fixes

- This revision of the System ROM includes the latest support for Intel Trusted eXecution Technology (TXT) which provides mitigation for CVE-2019-151. This mitigation is only needed for systems that have TXT enabled. This issue is not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code support that provides mitigations for the multiple security vulnerabilities. The following vulnerabilities have been addressed in this System ROM release: CVE-2019-11137, CVE-2019-152, and CVE-2019-11136. These issues are not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an CVE-2017-5715, CVE-2019-11135 and CVE-2019-11139. These issues are not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an Intel sighting where under complex micro-architectural conditions, executing X87 or AVX or integer divide instructions may results in unpredictable system behavior. This issue is not unique to HITACHI servers.
- Addressed an issue where the system may become unresponsive during POST when both iLO and the server are reset simultaneously.
- Addressed an issue where the server may experience a Red Screen (RSOD) during boot when a Matrox GPU is present and the server is booting in Legacy Boot Mode. This problem could occur with other optional PCIe graphics adapters. This issue is not intermittent and will occur on every boot with impacted optional PCIe graphics adapters with previous System ROM revisions. This issue is not seen with servers configured in UEFI Boot Mode or when using the embedded graphics controller.
- Addressed an issue where the system may incorrectly report that a DIMM has been mapped out after a memory training failure in the Integrated Management Log (IML) when the DIMM is still present in the system memory map. The IML will now correctly indicate the memory training failure, but will not indicate that the DIMM has been mapped out. This change only impacts the IML logging of the error and does not impact the operation of the system.
- This version of the System ROM includes the latest revision of the Intel microcode which addresses an issue where the system may experience an unexpected machine check exception. This issue would be logged to the Integrated Management Log (IML) as a Bank 0x03 or Bank 0x04 with status 0xBE000000'00800400 or 0xFE000000'00800400 Machine Check Exception. This issue is not unique to Hitachi servers.
- This version of the System ROM includes the latest version of the Intel microcode which addresses an issue where under complex microarchitectural conditions involving branch instructions that span multiple 64 byte boundaries, unpredictable system behavior may occur. This issue is not unique to Hitachi servers.
- Addressed an issue where certain 2933Mhz LRDIMMs may experience an uncorrectable memory error when operating with a Second Generation Intel Xeon Scalable Processor. This issue can be seen when

processor c-states are enabled on the platform. This issue does not impact 2666Mhz LRDIMMs or any speed RDIMM. Hitachi recommends that customers experiencing an uncorrectable memory error in one of these configurations update to this version of the System ROM before replacing any memory. This issue is not unique to Hitachi servers.

### **Enhancements**

- Updated to the latest thermal support for the platform.
- Updated the language translations (non-English modes) for System Utilities.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.
- Added support for Network Choice (NC) SKUs of the DL380 Gen10 Server. These server SKUs do not include the embedded NIC. This revision of the System ROM supports all SKUs of the DL360 Gen10 Server, but does not include any new functionality or issue fixes for non-NC SKUs.

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### **ROM Flash Firmware Package - System ROM U32**

Version: 2.22\_11-13-2019 (Optional)

### **Fixes**

- This revision of the System ROM includes the latest support for Intel Trusted eExecution Technology (TXT) which provides mitigation for CVE-2019-151. This mitigation is only needed for systems that have TXT enabled. This issue is not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code support that provides mitigations for the multiple security vulnerabilities. The following vulnerabilities have been addressed in this System ROM release: CVE-2019-11137, CVE-2019-152, and CVE-2019-11136. These issues are not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an CVE-2017-5715, CVE-2019-11135 and CVE-2019-11139. These issues are not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an Intel sighting where under complex micro-architectural conditions, executing X87 or AVX or integer divide instructions may results in unpredictable system behavior. This issue is not unique to HITACHI servers.
- Addressed an issue where the system may become unresponsive during POST when both iLO and the server are reset simultaneously.
- Addressed an issue where the server may experience a Red Screen (RSOD) during boot when a Matrox GPU is present and the server is booting in Legacy Boot Mode. This problem could occur with other optional PCIe graphics adapters. This issue is not intermittent and will occur on every boot with impacted optional PCIe graphics adapters with previous System ROM revisions. This issue is not seen with servers configured in UEFI Boot Mode or when using the embedded graphics controller.
- Addressed an issue where the system may incorrectly report that a DIMM has been mapped out after a memory training failure in the Integrated Management Log (IML) when the DIMM is still present in the

system memory map. The IML will now correctly indicate the memory training failure, but will not indicate that the DIMM has been mapped out. This change only impacts the IML logging of the error and does not impact the operation of the system.

- This version of the System ROM includes the latest revision of the Intel microcode which addresses an issue where the system may experience an unexpected machine check exception. This issue would be logged to the Integrated Management Log (IML) as a Bank 0x03 or Bank 0x04 with status 0xBE000000'00800400 or 0xFE000000'00800400 Machine Check Exception. This issue is not unique to Hitachi servers.
- This version of the System ROM includes the latest version of the Intel microcode which addresses an issue where under complex microarchitectural conditions involving branch instructions that span multiple 64 byte boundaries, unpredictable system behavior may occur. This issue is not unique to Hitachi servers.
- Addressed an issue where certain 2933Mhz LRDIMMs may experience an uncorrectable memory error when operating with a Second Generation Intel Xeon Scalable Processor. This issue can be seen when processor c-states are enabled on the platform. This issue does not impact 2666Mhz LRDIMMs or any speed RDIMM. Hitachi recommends that customers experiencing an uncorrectable memory error in one of these configurations update to this version of the System ROM before replacing any memory. This issue is not unique to Hitachi servers.

### **Enhancements**

- Updated to the latest thermal support for the platform.
- Updated the language translations (non-English modes) for System Utilities.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.
- Added support for Network Choice (NC) SKUs of the DL380 Gen10 Server. These server SKUs do not include the embedded NIC. This revision of the System ROM supports all SKUs of the DL360 Gen10 Server, but does not include any new functionality or issue fixes for non-NC SKUs.

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### **ROM Flash Firmware Package - System ROM U34**

Version: 2.22\_11-13-2019 (Optional)

### **Fixes**

- This revision of the System ROM includes the latest support for Intel Trusted eXecution Technology (TXT) which provides mitigation for CVE-2019-151. This mitigation is only needed for systems that have TXT enabled. This issue is not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code support that provides mitigations for the multiple security vulnerabilities. The following vulnerabilities have been addressed in this System ROM release: CVE-2019-11137, CVE-2019-152, and CVE-2019-11136. These issues are not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an CVE-2017-5715, CVE-2019-11135 and CVE-2019-11139. These issues are not unique to



HITACHI servers.

- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an Intel sighting where under complex micro-architectural conditions, executing X87 or AVX or integer divide instructions may results in unpredictable system behavior. This issue is not unique to HITACHI servers.
- Addressed an issue where the system may become unresponsive during POST when both iLO and the server are reset simultaneously.
- Addressed an issue where the server may experience a Red Screen (RSOD) during boot when a Matrox GPU is present and the server is booting in Legacy Boot Mode. This problem could occur with other optional PCIe graphics adapters. This issue is not intermittent and will occur on every boot with impacted optional PCIe graphics adapters with previous System ROM revisions. This issue is not seen with servers configured in UEFI Boot Mode or when using the embedded graphics controller.
- Addressed an issue where the system may incorrectly report that a DIMM has been mapped out after a memory training failure in the Integrated Management Log (IML) when the DIMM is still present in the system memory map. The IML will now correctly indicate the memory training failure, but will not indicate that the DIMM has been mapped out. This change only impacts the IML logging of the error and does not impact the operation of the system.
- This version of the System ROM includes the latest revision of the Intel microcode which addresses an issue where the system may experience an unexpected machine check exception. This issue would be logged to the Integrated Management Log (IML) as a Bank 0x03 or Bank 0x04 with status 0xBE000000'00800400 or 0xFE000000'00800400 Machine Check Exception. This issue is not unique to Hitachi servers.
- This version of the System ROM includes the latest version of the Intel microcode which addresses an issue where under complex microarchitectural conditions involving branch instructions that span multiple 64 byte boundaries, unpredictable system behavior may occur. This issue is not unique to Hitachi servers.
- Addressed an issue where certain 2933Mhz LRDIMMs may experience an uncorrectable memory error when operating with a Second Generation Intel Xeon Scalable Processor. This issue can be seen when processor c-states are enabled on the platform. This issue does not impact 2666Mhz LRDIMMs or any speed RDIMM. Hitachi recommends that customers experiencing an uncorrectable memory error in one of these configurations update to this version of the System ROM before replacing any memory. This issue is not unique to Hitachi servers.

### **Enhancements**

- Updated to the latest thermal support for the platform.
- Updated the language translations (non-English modes) for System Utilities.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.
- Added support for Network Choice (NC) SKUs of the DL380 Gen10 Server. These server SKUs do not include the embedded NIC. This revision of the System ROM supports all SKUs of the DL360 Gen10 Server, but does not include any new functionality or issue fixes for non-NC SKUs.

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## ROM Flash Firmware Package - System ROM U41

Version: 2.22\_11-13-2019 (Optional)

### Fixes

- This revision of the System ROM includes the latest support for Intel Trusted eXecution Technology (TXT) which provides mitigation for CVE-2019-151. This mitigation is only needed for systems that have TXT enabled. This issue is not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code support that provides mitigations for the multiple security vulnerabilities. The following vulnerabilities have been addressed in this System ROM release: CVE-2019-11137, CVE-2019-152, and CVE-2019-11136. These issues are not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an CVE-2017-5715, CVE-2019-11135 and CVE-2019-11139. These issues are not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an Intel sighting where under complex micro-architectural conditions, executing X87 or AVX or integer divide instructions may results in unpredictable system behavior. This issue is not unique to HITACHI servers.
- Addressed an issue where the system may become unresponsive during POST when both iLO and the server are reset simultaneously.
- Addressed an issue where the server may experience a Red Screen (RSOD) during boot when a Matrox GPU is present and the server is booting in Legacy Boot Mode. This problem could occur with other optional PCIe graphics adapters. This issue is not intermittent and will occur on every boot with impacted optional PCIe graphics adapters with previous System ROM revisions. This issue is not seen with servers configured in UEFI Boot Mode or when using the embedded graphics controller.
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- This version of the System ROM includes the latest revision of the Intel microcode which addresses an issue where the system may experience an unexpected machine check exception. This issue would be logged to the Integrated Management Log (IML) as a Bank 0x03 or Bank 0x04 with status 0xBE000000'00800400 or 0xFE000000'00800400 Machine Check Exception. This issue is not unique to Hitachi servers.
- This version of the System ROM includes the latest version of the Intel microcode which addresses an issue where under complex microarchitectural conditions involving branch instructions that span multiple 64 byte boundaries, unpredictable system behavior may occur. This issue is not unique to Hitachi servers.

- Addressed an issue where certain 2933Mhz LRDIMMs may experience an uncorrectable memory error when operating with a Second Generation Intel Xeon Scalable Processor. This issue can be seen when processor c-states are enabled on the platform. This issue does not impact 2666Mhz LRDIMMs or any speed RDIMM. Hitachi recommends that customers experiencing an uncorrectable memory error in one of these configurations update to this version of the System ROM before replacing any memory. This issue is not unique to Hitachi servers.

### **Enhancements**

- Updated to the latest thermal support for the platform.
- Updated the language translations (non-English modes) for System Utilities.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.
- Added support for Network Choice (NC) SKUs of the DL380 Gen10 Server. These server SKUs do not include the embedded NIC. This revision of the System ROM supports all SKUs of the DL360 Gen10 Server, but does not include any new functionality or issue fixes for non-NC SKUs.

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### **ROM Flash Firmware Package - System ROM U43**

Version: 2.10\_09-12-2019 (Optional)

### **Fixes**

- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for CVE-2017-5715, CVE-2019-11135, CVE-2018-12126, CVE-2018-12127, CVE-2018-12130, and CVE-2018-11091. These issues are not unique to HITACHI servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for an Intel sighting where under complex micro-architectural conditions, executing X87 or AVX or integer divide instructions may results in unpredictable system behavior. This issue is not unique to HITACHI servers.
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- Addressed an issue where the Intel (Software Guard Extensions) SGX remote attestation functionality would not work correctly. This only affects customers who have installed Intel SGX enabled applications and have enabled SGX in RBSU.
- Addressed an issue where the Server Backup and Restore functionality may not work properly if initiated through the RESTful API returning a message "An internal error occurred during RIS operation".
- Addressed an issue where the NVMe PCIe Resource Padding option in BIOS/Platform Configuration (RBSU) would not properly allocated sufficient resources to support a NVMe hot add event. In certain configurations, an insufficient amount of resources would have been reserved and a reboot would have been required to detect the presence of the newly added drive.

- Addressed an issue where the system would not boot to a USB drive when a non-bootable (non-formatted) drive was also present in the system. This issue only impacts systems configured in Legacy Boot Mode.

### **Enhancements/New Features**

- Updated the UEFI OpenSSL support to version 1.0.2r to address security vulnerability CVE-2019-1559.
- Updated the system thermal logic to support the latest system configurations.

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## **ROM Flash Firmware Package - System ROM U44**

Version: 2.10\_09-12-2019 (Optional)

### **Fixes**

- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigation for CVE-2017-5715, CVE-2019-11135, CVE-2018-12126, CVE-2018-12127, CVE-2018-12130, and CVE-2018-11091. These issues are not unique to HITACHI servers.
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- Addressed an issue where the system would not boot to a USB drive when a non-bootable (non-formatted) drive was also present in the system. This issue only impacts systems configured in Legacy Boot Mode.

### **Enhancements/New Features**

- Updated the UEFI OpenSSL support to version 1.0.2r to address security vulnerability CVE-2019-1559.
- Updated the system thermal logic to support the latest system configurations.

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**Package: Identifiers for Intel Xeon E-2xxx Processor for Windows**

Version: 10.1.18015.8142 (Optional)

Enhancements

Add support for the HPE ProLiant MicroServer Gen10 Plus Server.

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**Package: Identifiers for Intel Xeon Scalable Processors (First and Second Generation) for Windows**

Version: 10.1.18015.8142 (Optional)

Enhancements

Add support for Intel devices 203A, 203D, 2078, and 207A.

---

**Package: HPE Broadcom NetXtreme-E Driver for Windows Server 2012 R2**

Version: 214.0.177.0 (B) (Optional)

**Important Note!**

HPE recommends the firmware provided in HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.0.0 or later, for use with this driver.

Enhancements

Supported Devices and Features

This product supports the following network adapters:

- o HPE Ethernet 10Gb 2-port 535FLR-T Adapter
  - o HPE Ethernet 10Gb 2-port 535T Adapter
  - o HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter
  - o HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter
- 

**Package: HPE Broadcom NetXtreme-E Driver for Windows Server 2016**

Version: 214.0.177.0 (B) (Optional)

**Important Note!**

HPE recommends the firmware provided in HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.0.0 or later, for use with this driver.

Enhancements

Supported Devices and Features

This product supports the following network adapters:

- o HPE Ethernet 10Gb 2-port 535FLR-T Adapter
  - o HPE Ethernet 10Gb 2-port 535T Adapter
  - o HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter
  - o HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter
- 

**Package: HPE Broadcom NetXtreme-E Driver for Windows Server 2019**

Version: 214.0.177.0 (B) (Optional)

### **Important Note!**

HPE recommends the firmware provided in HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.0.0 or later, for use with this driver.

Enhancements

Supported Devices and Features

This product supports the following network adapters:

- o HPE Ethernet 10Gb 2-port 535FLR-T Adapter
- o HPE Ethernet 10Gb 2-port 535T Adapter
- o HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter
- o HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter

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### **Package: HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 7**

Version: 1.9.2-214.0.182.0 (C) (Optional)

### **Important Note!**

HPE recommends the firmware provided in HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for Linux x86\_64, version 1.6.4 or later, for use with these drivers.

Enhancements

Supported Devices and Features

This product supports the following network adapters:

- o HPE Ethernet 10Gb 2-port 535FLR-T Adapter
- o HPE Ethernet 10Gb 2-port 535T Adapter
- o HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter
- o HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter

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### **Package: HPE Broadcom NetXtreme-E Drivers for VMware vSphere 6.5**

Version: 2019.12.20 (Optional)

### **Important Note!**

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

HPE recommends the firmware provided in HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for VMware, version 5.9.0 or later, for use with this driver.

Enhancements

Supported Devices and Features

This product supports the following network adapters:

- o HPE Ethernet 10Gb 2-port 535FLR-T Adapter
- o HPE Ethernet 10Gb 2-port 535T Adapter
- o HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter
- o HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter

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**Package: HPE Broadcom NetXtreme-E Drivers for VMware vSphere 6.7**

Version: 2019.12.20 (Optional)

**Important Note!**

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

HPE recommends the firmware provided in HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for VMware, version 5.9.0 or later, for use with this driver.

Enhancements

Supported Devices and Features

This product supports the following network adapters:

- o HPE Ethernet 10Gb 2-port 535FLR-T Adapter
- o HPE Ethernet 10Gb 2-port 535T Adapter
- o HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter
- o HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter

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**Package: HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 7 Update 6**

Version: 214.0.181.0 (C) (Optional)

**Prerequisites**

HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 7, version 1.9.2-214.0.182.0(C) or later, must be installed before installing this product.

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

Enhancements

Supported Devices and Features

This product supports the following network adapters:

- o HPE Ethernet 10Gb 2-port 535FLR-T Adapter
- o HPE Ethernet 10Gb 2-port 535T Adapter
- o HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter
- o HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter

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

Version: 214.0.0.0 (C) (Optional)

**Important Note!**

HPE recommends the firmware provided in HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.0.0 or later, for use with this driver.

Enhancements

Supported Devices and Features

This driver supports the following network adapters:

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

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**Package: HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86\_64**

Version: 3.137y-1 (B) (Optional)

**Important Note!**

HPE recommends the firmware provided in HPE NX1 Broadcom Online Firmware Upgrade Utility for Linux x86\_64, version 2.24.0 or later, for use with these drivers.

Enhancements

Supported Devices and Features

These drivers support the following network adapters:

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

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**Package: HPE Intel E1R Driver for Windows Server 2012 R2**

Version: 12.14.8.1 (Optional)

**Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.0.0 or later, for use with this driver.

Enhancements

Supported Devices and Features

This driver supports the following HPE Intel E1R network adapters:

- o HP Ethernet 1Gb 2-port 361i Adapter
- o HP Ethernet 1Gb 2-port 361T Adapter
- o HP Ethernet 1Gb 2-port 363i Adapter
- o HP Ethernet 1Gb 4-port 366i Adapter
- o HPE Ethernet 1Gb 4-port 366i Communication Board
- o HP Ethernet 1Gb 4-port 366FLR Adapter
- o HP Ethernet 1Gb 4-port 366T Adapter
- o HP Ethernet 1Gb 2-port 367i Adapter



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**Package: HPE Intel E1R Driver for Windows Server 2016**

Version: 12.15.184.7 (Optional)

**Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.0.0 or later, for use with this driver.

**Fixes**

This product correct an issue which override and copy constructor to MSIX\_AFFINITY\_MANAGEMENT class to eliminate KW issues with double freeing memory.

This product correct an issue which fixed e1r compile to exclude Nahum Icelake defines.

This product correct an issue which fixed conversion of timestamp into 64bit value.

This product correct an issue which fix for NDIS Miniport Kernel Pointer Leakage

Enhancements

This product add Wrapping and fix Support To Cometlake,and added thermal sensor support for fiber NIC.

Supported Devices and Features

This driver supports the following HPE Intel E1R network adapters:

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

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**Package: HPE Intel E1R Driver for Windows Server 2019**

Version: 12.18.9.1 (Optional)

**Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.0.0 or later, for use with this driver.

**Fixes**

This product correct an issue which override and copy constructor to MSIX\_AFFINITY\_MANAGEMENT class to eliminate KW issues with double freeing memory.

This product correct an issue which fixed e1r compile to exclude Nahum Icelake defines.

This product correct an issue which fixed conversion of timestamp into 64bit value.

This product correct an issue which fix for NDIS Miniport Kernel Pointer Leakage

Enhancements

This product add Wrapping and fix Support To Cometlake,and added thermal sensor support for fiber NIC.

Supported Devices and Features

This driver supports the following HPE Intel E1R network adapters:

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

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**Package: HPE Intel i40e Drivers for Red Hat Enterprise Linux 7 x86\_64**

Version: 2.10.19.30-2 (Optional)

**Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86\_64, version 1.19.0 or later, for use with these drivers.

**Fixes**

This product addresses an issue where unexpected error message appears in dmesg when driver is loaded.

This product addresses an issue where the Ingress/Egress mirroring to VF 0 doesn't work.

This product addresses an issue where the NVMUpdate cannot initialize adapter in recovery mode.

**Enhancements**

Supported Devices and Features

This product supports the following network adapters:

- o HPE Ethernet 1Gb 2-port 368i Adapter
- o HPE Ethernet 1Gb 2-port 368FLR-MMT Adapter
- o HPE Ethernet 1Gb 4-port 369i Adapter
- o HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter
- o HPE Ethernet 10Gb 2-port 562SFP+ Adapter
- o HPE Ethernet 10Gb 2-port 563i Adapter
- o HPE Ethernet 10Gb 2-port 568FLR-MMT Adapter
- o HPE Ethernet 10Gb 2-port 568FLR-MMSFP+ Adapter

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**Package: HPE Intel i40ea Driver for Windows Server 2012 R2**

Version: 1.11.101.0 (Optional)

**Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.0.0 or later, for use with this driver.

**Fixes**

This product correct an issue which BSOD when change speed from 10G/25Gbps to Autonegotiation in localized OS as well as in ENU.

This product correct an issue which fix Rdma VFs for ports greater than zero and Concurrent VFReset.

## **Enhancements**

Supported Devices and Features

This product supports the following network adapters:

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

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

Version: 1.11.101.0 (Optional)

### **Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.0.0 or later, for use with this driver.

### **Fixes**

This product correct an issue which fix swidx to vf and vport id tracking and rdma vf id lookup

This product correct an issue which Windows crashes after setting the value MSISupported =1 and MessageNumberLimit=1

This product correct an issue which BSOD when change speed from 10G/25Gbps to Autonegotiation in localized OS as well as in ENU.

This product correct an issue which fix Rdma VFs for ports greater than zero and Concurrent VFReset.

## **Enhancements**

Supported Devices and Features

This product supports the following network adapters:

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

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## **Package: HPE Intel i40ea Driver for Windows Server 2019**

Version: 1.11.101.0 (Optional)

### **Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.0.0 or later, for use with this driver.

### **Fixes**

This product correct an issue which Windows crashes after setting the value MSISupported =1 and MessageNumberLimit=1

This product correct an issue which fix swidx to vf and vport id tracking and rdma vf id lookup

This product correct an issue which Host suffers KERNEL\_SECURITY\_CHECK\_FAILURE BugCheck 139 BSOD

This product correct an issue which BSOD when change speed from 10G/25Gbps to Autonegotiation in localized OS as well as in ENU.

This product correct an issue which fix Rdma VFs for ports greater than zero and Concurrent VFReset.

## **Enhancements**

Supported Devices and Features

This product supports the following network adapters:

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

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

Version: 1.11.101.0 (Optional)

### **Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.0.0 or later, for use with this driver.

### **Fixes**

This product correct an issue which Windows crashes after setting the value MSISupported =1 and MessageNumberLimit=1

This product correct an issue which fix Rdma VFs for ports greater than zero and Concurrent VFReset.

This product correct an issue which BSOD when change speed from 10G/25Gbps to Autonegotiation in localized OS as well as in ENU.

## **Enhancements**

Supported Devices and Features

This product supports the following network adapters:

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

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## **Package: HPE Intel i40eb Driver for Windows Server 2016**

Version: 1.11.101.0 (Optional)

### **Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.0.0 or later, for use with this driver.

### **Fixes**

This product correct an issue which Windows crashes after setting the value MSISupported =1 and MessageNumberLimit=1

This product correct an issue which fix Rdma VFs for ports greater than zero and Concurrent VFReset.

This product correct an issue which Blue Screen of Death (BSOD) when change speed from 10G/25Gbps to Autonegotiation in localized OS as well as in ENU.

This product corrects an issue which Blue Screen of Death (BSOD) occurred while during server shutdown or restart.

### **Enhancements**

Supported Devices and Features

This product supports the following network adapters:

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

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### **Package: HPE Intel i40eb Driver for Windows Server 2019**

Version: 1.11.101.0 (Optional)

### **Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.0.0 or later, for use with this driver.

### **Fixes**

This product correct an issue which Champagne Fountain (v1.10.102.0) blue screens on Device.Network.LAN.AzureStack PCS test.

This product correct an issue which Host suffers KERNEL\_SECURITY\_CHECK\_FAILURE BugCheck 139 BSOD.

This product correct an issue which fix Rdma VFs for ports greater than zero and Concurrent VFReset.

This product correct an issue which removed PCS fix for WS2019 to investigate ghost queue problem.

This product correct an issue which BSOD when change speed from 10G/25Gbps to Autonegotiation in localized OS as well as in ENU.

### **Enhancements**

Supported Devices and Features

This product supports the following network adapters:

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

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### **Package: HPE Intel i40en Driver for VMware vSphere 6.5**

Version: 2019.12.20 (Optional)

### **Important Note!**

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

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for VMware, version 3.12.0 or later, for use with this driver.

### **Fixes**

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

### **Enhancements**

Supported Devices and Features

This product supports the following network adapters:

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

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### **Package: HPE Intel i40en Driver for VMware vSphere 6.7**

Version: 2019.12.20 (Optional)

### **Important Note!**

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

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for VMware, version 3.12.0 or later, for use with this driver.

### **Fixes**

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

### **Enhancements**

Supported Devices and Features

This product supports the following network adapters:

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

- o HPE Ethernet 10Gb 2-port 568i Adapter
- o HPE Ethernet 10Gb 2-port 568FLR-MMSFP+ Adapter
- o HPE Ethernet 10Gb 2-port 568FLR-MMT Adapter

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**Package: HPE Intel iavf Drivers for Red Hat Enterprise Linux 7 x86\_64**

Version: 3.7.61.20-1 (Optional)

**Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86\_64, version 1.19.0 or later, for use with these drivers.

**Fixes**

This product addresses spurious error message when interface down by given longer timeout value to complete.

**Enhancements**

Supported Devices and Features

This product supports the following network adapters:

- o HPE Ethernet 1Gb 2-port 368i Adapter
- o HPE Ethernet 1Gb 2-port 368FLR-MMT Adapter
- o HPE Ethernet 1Gb 4-port 369i Adapter
- o HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter
- o HPE Ethernet 10Gb 2-port 562SFP+ Adapter
- o HPE Ethernet 10Gb 2-port 563i Adapter
- o HPE Ethernet 10Gb 2-port 568FLR-MMT Adapter
- o HPE Ethernet 10Gb 2-port 568FLR-MMSFP+ Adapter

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

Version: 6.2.1-1 (Optional)

**Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86\_64, version 1.19.0 or later, for use with these drivers.

**Fixes**

This product addresses an issue where failure of driver installation.

**Enhancements**

Supported Devices and Features

These drivers support the following Intel network adapters:

- o HP Ethernet 1Gb 2-port 361i Adapter
- o HP Ethernet 1Gb 2-port 361T Adapter
- o HP Ethernet 1Gb 2-port 363i Adapter

- o HP Ethernet 1Gb 4-port 366FLR Adapter
- o HPE Ethernet 1Gb 4-port 366i Communication Board
- o HP Ethernet 1Gb 4-port 366T Adapter

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**Package: HPE Intel igbn Driver for VMware vSphere 6.5**

Version: 2019.12.20 (Optional)

**Important Note!**

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

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for VMware, version 3.12.0 or later, for use with this driver.

**Fixes**

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

**Enhancements**

Supported Devices and Features

These drivers support the following network adapters:

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

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**Package: HPE Intel igbn Driver for VMware vSphere 6.7**

Version: 2019.12.20 (Optional)

**Important Note!**

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

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for VMware, version 3.12.0 or later, for use with this driver.

**Fixes**

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

**Enhancements**

Supported Devices and Features



These drivers support the following network adapters:

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

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**Package: HPE Intel ixgbe Drivers for Red Hat Enterprise Linux 7 x86\_64**

Version: 5.6.4-2 (Optional)

**Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86\_64, version 1.19.0 or later, for use with these drivers.

**Fixes**

This product fixes an issue of an infinite recursion in device shutdown path due to a corner case when PCIe link was down.

This product fixes an issue of an typo in ethtool stats.

**Enhancements**

Supported Devices and Features

These drivers support the following network adapters:

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

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**Package: HPE Intel ixgben Driver for VMware vSphere 6.5**

Version: 2019.12.20 (Optional)

**Important Note!**

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

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for VMware, version 3.12.0 or later, for use with this driver.

**Fixes**

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

link down.

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

### **Enhancements**

Supported Devices and Features

These drivers support the following network adapters:

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

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### **Package: HPE Intel ixgben Driver for VMware vSphere 6.7**

Version: 2019.12.20 (Optional)

### **Important Note!**

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

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for VMware, version 3.12.0 or later, for use with this driver.

### **Fixes**

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

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

### **Enhancements**

Supported Devices and Features

These drivers support the following network adapters:

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

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### **Package: HPE Intel ixgbev Drivers for Red Hat Enterprise Linux 7 x86\_64**

Version: 4.6.2-2 (Optional)

### **Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86\_64, version 1.19.0 or later, for use with these drivers.

## **Fixes**

This product addresses an issue where a link is lost on a Virtual Machine when hypervisor is restored from low-power state, such as freeze or suspend.

## **Enhancements**

Supported Devices and Features

These drivers support the following network adapters:

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

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### **Package: HPE Intel ixs Driver for Windows Server 2012 R2**

Version: 3.14.132.0 (B) (Optional)

#### **Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.0.0 or later, for use with this driver.

## **Enhancements**

Supported Devices and Features

This driver supports the following network adapters:

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

---

### **Package: HPE Intel ixs Driver for Windows Server 2016**

Version: 4.1.131.0 (B) (Optional)

#### **Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.0.0 or later, for use with this driver.

## **Enhancements**

Supported Devices and Features

This driver supports the following network adapters:

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

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### **Package: HPE Intel ixs Driver for Windows Server 2019**

Version: 4.1.143.0 (B) (Optional)

### **Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.0.0 or later, for use with this driver.

### **Enhancements**

Supported Devices and Features

This driver supports the following network adapters:

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

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### **Package: HPE Intel vxn Driver for Windows Server 2012 R2**

Version: 1.0.16.1 (B) (Optional)

### **Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.0.0 or later, for use with this driver.

### **Enhancements**

Supported Devices and Features

This component supports the following HPE Intel ixn network adapters:

- o HPE Ethernet 10Gb 2-port 560FLR-SFP+ Adapter
- o HPE Ethernet 10Gb 2-port 560SFP+ Adapter

This component supports the following HPE Intel ixt network adapters:

- o HPE Ethernet 10Gb 2-port 561FLR-T Adapter
- o HPE Ethernet 10Gb 2-port 561T Adapter

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### **Package: HPE Intel vxn Driver for Windows Server 2016**

Version: 2.0.210.0 (D) (Optional)

### **Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.0.0 or later, for use with this driver.

### **Enhancements**

Supported Devices and Features

This component supports the following HPE Intel ixn network adapters:

- o HPE Ethernet 10Gb 2-port 560FLR-SFP+ Adapter
- o HPE Ethernet 10Gb 2-port 560SFP+ Adapter

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### **Package: HPE Intel vxn Driver for Windows Server 2019**

Version: 2.1.138.0 (B) (Optional)

### **Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.0.0 or later, for use with this driver.

### **Prerequisites**

This driver requires host driver version 4.1.143.0 or later.

### **Enhancements**

Supported Devices and Features

This component supports the following HPE Intel ixn network adapters:

- o HPE Ethernet 10Gb 2-port 560FLR-SFP+ Adapter
- o HPE Ethernet 10Gb 2-port 560SFP+ Adapter

---

### **Package: HPE Intel vxs Driver for Windows Server 2012 R2**

Version: 1.2.131.0 (B) (Optional)

### **Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.0.0 or later, for use with this driver.

### **Prerequisites**

This driver requires host driver version 3.14.132.0 (B) or later.

### **Enhancements**

Supported Devices and Features

This driver supports the following network adapters:

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

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### **Package: HPE Intel vxs Driver for Windows Server 2016**

Version: 2.1.133.0 (B) (Optional)

### **Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.0.0 or later, for use with this driver.

### **Prerequisites**

This driver requires host driver version 4.1.131.0 (B) or later.

### **Enhancements**

Supported Devices and Features

This driver supports the following network adapters:

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

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**Package: HPE Intel vxs Driver for Windows Server 2019**

Version: 2.1.138.0 (B) (Optional)

**Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.0.0 or later, for use with this driver.

**Prerequisites**

This driver requires host driver version 4.1.143.0 (B) or later.

**Enhancements**

Supported Devices and Features

This driver supports the following network adapters:

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

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**Package: HPE Mellanox CX4LX and CX5 Driver for Windows Server 2012 R2**

Version: 2.30.21713.0 (Optional)

**Fixes**

This product correct an issue which could be BSOD that occurred when calling the NDK connection OID, while increasing the number of connection.

This product correct an issue which system is reboot required when upgrading the driver in some cases.

**Enhancements**

Supported Devices and Features

This driver supports the following network adapters:

- o HPE Ethernet 10Gb 2-port 548SFP+ Adapter
- o HPE Ethernet 25Gb 2-port 640FLR-SFP28 Adapter
- o HPE Ethernet 25Gb 2-port 640SFP28 Adapter
- o HPE Ethernet 10Gb 2-port 548SFP+ OCP3 Adapter
- o HPE Ethernet 10/25Gb 2-port 642SFP28 OCP3 Adapter
- o HPE Ethernet 10/25Gb 2-port 641SFP28 Adapter
- o HPE Ethernet 10/25Gb 2-port 642SFP28 Adapter
- o HPE Infiniband FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter
- o HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter
- o HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter
- o HPE Infiniband EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter
- o HPE Ethernet 100Gb 1-port 842QSFP28 Adapter

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**Package: HPE Mellanox CX4LX and CX5 Driver for Windows Server 2016**

Version: 2.30.21713.0 (Optional)

## Fixes

This product correct an issue which could be BSOD that occurred when calling the NDK connection OID, while increasing the number of connection.

This product correct an issue which system is reboot required when upgrading the driver in some cases.

## Enhancements

Supported Devices and Features

This driver supports the following network adapters:

- o HPE Ethernet 10Gb 2-port 548SFP+ Adapter
- o HPE Ethernet 25Gb 2-port 640FLR-SFP28 Adapter
- o HPE Ethernet 25Gb 2-port 640SFP28 Adapter
- o HPE Infiniband FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter
- o HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter
- o HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter
- o HPE Infiniband EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter
- o HPE Ethernet 100Gb 1-port 842QSFP28 Adapter

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## **Package: HPE Mellanox CX4LX and CX5 Driver for Windows Server 2019**

Version: 2.30.21713.0 (Optional)

## Fixes

This product correct an issue which could be BSOD that occurred when calling the NDK connection OID, while increasing the number of connection.

This product correct an issue which system is reboot required when upgrading the driver in some cases.

## Enhancements

Supported Devices and Features

This driver supports the following network adapters:

- o HPE Ethernet 10Gb 2-port 548SFP+ Adapter
- o HPE Ethernet 25Gb 2-port 640FLR-SFP28 Adapter
- o HPE Ethernet 25Gb 2-port 640SFP28 Adapter
- o HPE Infiniband FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter
- o HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter
- o HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter
- o HPE Infiniband EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter
- o HPE Ethernet 100Gb 1-port 842QSFP28 Adapter

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## **Package: HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Red Hat Enterprise Linux 7 Update 6 (x86\_64)**

Version: 4.7 (Recommended)

## **Important Note!**

Mellanox Ethernet + RoCE Linux driver (mlnx-ofa\_kernel RPMs) supports only Ethernet mode of operation for HPE Mellanox adapters. For customers requiring complete InfiniBand functionality or "InfiniBand + Ethernet" modes of operation on the same node, install MLNX-OFED drivers from "Mellanox OFED VPI Drivers and Utilities" Linux Software Delivery Repository ([https://downloads.linux.hpe.com/SDR/project/mlnx\\_ofed/](https://downloads.linux.hpe.com/SDR/project/mlnx_ofed/)).

## **Prerequisites**

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

- o Python version 2.7

## **Fixes**

The following issues have been fixed in version 4.7:

- o When configuring the Time-stamping feature, Completion Queue Events (CQE) compression would be disabled. This fix entailed the removal of a warning message that appeared upon attempting to disable CQE compression when it has already been disabled.
- o Fixed the issue where software reset might have resulted in an order inversion of interface names.
- o Server reboot might have resulted in a system crash.
- o Virtual Function (VF) mirroring offload not supported issue have been fixed.
- o The number of guaranteed counters per VF have been changed and now calculated based on the number of ports mapped to that VF. This allows more VFs to have counters allocated.

## **Enhancements**

Changes and new features in HPE Mellanox RoCE driver version 4.7:

- o For ConnectX-4 Adapters and above:

- \* Added support for monitoring selected counters and generating a notification

event(Monitor\_Counter\_Change event) upon changes made to these counters. The counters to be monitored are selected using the SET\_MONITOR\_COUNTER command.

- \* Added a new API which enables posting a single WR that completes the Protection Information (PI) operation internally. This reduces CPU utilization for posting and processing multiple Work Requests (WRs) and improves performance by choosing the optimal Management key (mkey) for the hardware according to the buffer memory layout.

- \* Added support to read additional Electrically Erasable Programmable Read-only Memory (EEPROM) information from high pages of modules such as SFF-8436 and SFF-8636. Such information can be: 1. Application Select table 2. User writable EEPROM 3. Thresholds and alarms - Ehtool dump works on active cables only (e.g. optic), but thresholds and alarms can be read with "offset" and "length" parameters in any cable by running: `ethtool -m <DEVNAME> offset X length Y`

- \* Added the ability to create rules to steer Remote Direct Memory Access(RDMA) traffic, with two destinations supported:DevX object and Queue Pair (QP). Multiple priorities are also supported.

- o For ConnectX-5 Adapters and above:

- \* Incorporated the documentation of Accelerated Switching And Packet Processing (ASAP2): Hardware



Offloading for vSwitches into MLNX\_OFED Release Notes and User Manual.

\* QP counters and flow counters are now set per Process ID (PID) to allow better visibility of RDMA error states. Users will be able to manually tune the Q counter to monitor specific QPs, or automatically monitor QPs according to predefined criteria, such as the QP type.

\* Added support for On-Demand Paging (ODP) over DC transport.

\* Added support for Address Translation Services (ATS) feature, which improves performance for virtualized PeerDirect applications by caching PA-> MA translations and preventing PCI transactions from going to the root complex.

\* Added support for Device Emulation in BlueField. This mechanism allows function-A to perform operations on behalf of function-B. The emulation manager creates a channel (named VHCA\_TUNNEL general object) that acts as the direct command interface between the emulated function host and the HCA hardware. The emulation software creates this tunnel for every managed function and issues commands via the DevX general command interface.

Supported Devices and Features

SUPPORTED KERNELS:

The kernels of Red Hat Enterprise Linux 7 Update 6 (x86\_64) supported by this binary rpm are:

3.10.0-957.el7 - (x86\_64) and future update kernels.

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**Package: HPE QLogic FastLinQ 10/25/50 GbE Drivers for Red Hat Enterprise Linux 7 x86\_64**

Version: 8.42.8.0-1 (Optional)

**Important Note!**

HPE recommends the firmware provided in HPE QLogic FastLinQ Online Firmware Upgrade Utility for Linux x86\_64, version 1.8.0 or later, for use with these drivers.

**Fixes**

This product addresses VM crash with VFs

This product addresses an issue where qedr unload causes HW error after creating bonding interfaces using NPAR functions

This product addresses an issue where the system crash while running VF RDMA traffic in max VFs configuration

This product addresses an issue where the system crash while collecting GRC dump

**Enhancements**

Supported Devices and Features

This product supports the following network adapters:

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

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**Package: HPE QLogic FastLinQ 10/25/50 GbE Drivers for Windows Server x64 Editions**

Version: 8.42.10.0 (Optional)

**Important Note!**

HPE recommends the firmware provided in HPE QLogic FastLinQ Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.0.0 or later, for use with these drivers.

**Fixes**

This product correct an issue which vlan indication did not arrive when the driver is in UFP mode.

This product correct an issue that Windows system crash when VF driver on BB.

This product correct an issue which BSOD in windows 2019 VM when installing NDIS driver.

This product correct an issue which BSOD on Windows 2019 bugcheck 0x139 on QENDA.sys driver.

**Enhancements**

Supported Devices and Features

This product supports the following network adapters:

- o HPE Ethernet 10Gb 2-port 521T Adapter
- o HPE Ethernet 10Gb 2-port 524SFP+ Adapter
- o HPE Ethernet 10Gb 2-port 524SFP+ OCP3 Adapter
- o HPE Ethernet 10Gb 2-port 523T OCP3 Adapter
- o HPE Ethernet 10Gb 2-port 523T Adapter
- o HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter
- o HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Converged Network Adapter
- o HPE StoreFabric CN1200R-T Converged Network Adapter
- o HPE StoreFabric CN1300R Converged Network Adapter

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**Package: HPE QLogic FastLinQ 10/25/50 GbE Multifunction Driver for VMware vSphere 6.5**

Version: 2019.12.20 (Optional)

**Important Note!**

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

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

**Fixes**

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

**Enhancements**

Supported Devices and Features

This product supports the following network adapters:

- o HPE Ethernet 10Gb 2-port 521T Adapter

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

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**Package: HPE QLogic FastLinQ 10/25/50 GbE Multifunction Driver for VMware vSphere 6.7**

Version: 2019.12.20 (Optional)

**Important Note!**

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

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

**Fixes**

This product addresses a PSOD in ESXi6.7 when running FCoE continuous reboot.

**Enhancements**

Supported Devices and Features

This product supports the following network adapters:

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

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**Package: HPE QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 6.5**

Version: 2019.12.20 (Optional)

**Important Note!**

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

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

**Fixes**

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

This product addresses a PSOD seen with FCoE.

## **Enhancements**

Supported Devices and Features

These drivers support the following network adapters:

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

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## **Package: HPE QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 6.7**

Version: 2019.12.20 (Optional)

### **Important Note!**

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

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

### **Fixes**

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

This product addresses a PSOD seen with FCoE.

## **Enhancements**

Supported Devices and Features

These drivers support the following network adapters:

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

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## **Package: HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 7 x86\_64**

Version: 7.14.63-1 (Optional)

### **Important Note!**

HPE recommends the firmware provided in HPE QLogic NX2 Online Firmware Upgrade Utility for Linux x86\_64, version 2.26.0 or later, for use with these drivers.

## **Fixes**

This product fixes an issue where the adapter link down due to pause flood detection by switch.

This product fixes an issue where ping on VLAN stops after Virtual Function Tx offloads are turned off/on.

## **Enhancements**

Supported Devices and Features

These drivers support the following network adapters:

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

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## **Package: HPE QLogic NX2 10/20 GbE Multifunction Drivers for Windows Server x64 Editions**

Version: 7.13.171.0 (Optional)

## **Important Note!**

HP recommends the firmware provided in HPE QLogic NX2 Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.0.0 or later, for use with these drivers.

## **Fixes**

This product addresses an Adapter Link Down error that occurs due to the detection of a pause flood by the switch.

This product addresses Assert failures seen when powering on SR-IOV-enabled Virtual Machines with Virtual Functions from a single OneView function.

## **Enhancements**

Supported Devices and Features

This driver supports the following network adapters:

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

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

Version: 1.2.10-025 (Recommended)

## **Fixes**

Controller could stop responding while processing PQI reset during a power cycle due to all pending IO's not completed at the time of the power cycle.

---

## **Package: HPE ProLiant Gen10 Smart Array Controller Driver for VMware vSphere 6.5 (Driver Component).**

Version: 2019.12.01 (Recommended)

## **Important Note!**

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

## **Enhancements**

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

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## **Package: HPE ProLiant Gen10 Smart Array Controller Driver for VMware vSphere 6.7 (Driver Component).**

Version: 2019.12.01 (Recommended)

## **Important Note!**

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

## **Enhancements**

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

---

## **Package: HPE Smart Array Gen10 Controller Driver for Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019**

Version: 106.166.0.1022 (Recommended)

## **Fixes**

o When executing a "PCS-E2Launch" the system cause stop responding due to the internal controller command accessing the cmdinfo SRB.

---

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

Version: 12.4.243.4 (Recommended)

## **Important Note!**

Release Notes:  
HPE StoreFabric Emulex Adapters Release Notes

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

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

To obtain the guide:

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

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

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

### **Prerequisites**

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

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

### **Enhancements**

Updated to driver version 12.4.243.4

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\win2019

Supported Devices and Features

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

- o HP 81E 8Gb Single Port PCIe Fibre Channel Host Bus Adapter
- o HP 82E 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- o HP StoreFabric 84E 4-Port Fibre Channel Host Bus Adapter
- o HP LPe1205A 8Gb Fibre Channel Host Bus Adapter for BladeSystem c-Class
- o HP SN1000E 16Gb Dual Port Fibre Channel Host Bus Adapter
- o HP SN1000E 16Gb Single Port Fibre Channel Host Bus Adapter
- o HP SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter
- o HP SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1100E 4P 16Gb Fibre Channel Host Bus Adapter
- o HP Fibre Channel 16Gb LPe1605 Mezz
- o HPE StoreFabric SN1200E 16Gb 2P FC HBA
- o HPE StoreFabric SN1200E 16Gb 1P FC HBA
- o HPE StoreFabric SN1600E 32Gb 2p FC HBA

o HPE StoreFabric SN1600E 32Gb 1p FC HBA

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**Package: HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Windows 2019**

Version: 12.4.243.4 (Recommended)

**Important Note!**

Release Notes:

HPE StoreFabric Emulex Adapters Release Notes

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

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

To obtain the guide:

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

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

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

**Prerequisites**

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

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

**Enhancements**

Updated to driver version 12.4.243.4

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\win2019

Supported Devices and Features

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

- o HPE 81E 8Gb Single Port PCIe Fibre Channel Host Bus Adapter
- o HPE 82E 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric 84E 4-Port Fibre Channel Host Bus Adapter
- o HPE LPe1205A 8Gb Fibre Channel Host Bus Adapter for BladeSystem c-Class
- o HPE SN1000E 16Gb Dual Port Fibre Channel Host Bus Adapter



- o HPE SN1000E 16Gb Single Port Fibre Channel Host Bus Adapter
- o HPE SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter
- o HPE SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1100E 4P 16Gb Fibre Channel Host Bus Adapter
- o HPE Fibre Channel 16Gb LPe1605 Mezz
- o HPE StoreFabric SN1200E 16Gb 2P FC HBA
- o HPE StoreFabric SN1200E 16Gb 1P FC HBA
- o HPE StoreFabric SN1600E 32Gb 2p FC HBA
- o HPE StoreFabric SN1600E 32Gb 1p FC HBA

---

**Package: Red Hat Enterprise Linux 7 Update 6 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and mezzanine Host Bus Adapters**

Version: 12.4.270.3 (Recommended)

**Important Note!**

Release Notes:

HPE StoreFabric Emulex Adapters Release Notes

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

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

To obtain the guide:

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

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

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

**Prerequisites**

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

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

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

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

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

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

### **Enhancements**

Updated to driver version 12.4.270.3

Added support to the following:

- o Reset the link of the adapter instead of doing an infinite PLOGI retry.

Supported Devices and Features

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

- \* HPE 81E 8Gb Single Port PCIe Fibre Channel Host Bus Adapter
- \* HPE 82E 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- \* HPE LPe1205A 8Gb Fibre Channel Host Bus Adapter for BladeSystem c-Class
- \* HPE StoreFabric 84E 4-Port Fibre Channel Host Bus Adapter
- \* HPE SN1000E 16Gb Dual Port Fibre Channel Host Bus Adapter
- \* HPE SN1000E 16Gb Single Port Fibre Channel Host Bus Adapter
- \* HPE SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter
- \* HPE SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter
- \* HPE StoreFabric SN1100E 4P 16Gb Fibre Channel Host Bus Adapter
- \* HPE Fibre Channel 16Gb LPe1605 Mezz
- \* 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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### **Package: Red Hat Enterprise Linux 7 Update 6 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and mezzanine Host Bus Adapters**

Version: 10.01.00.52.07.6-k1 (Recommended)

### **Important Note!**

Release Notes:

HPE StoreFabric QLogic Adapters Release Notes

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

### **Prerequisites**

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

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

### **Fixes**

Fixed the following:

- o Flash read
- o Read Diagnostic Parameters (RDP) respond data format
- o Cleanup trace buffer initialization
- o Unintended wait
- o Incomplete login in point-to-point mode
- o Restore World Wide Port Name (WWPN) of Physical Port for fabric configuration only for loop down

### **Enhancements**

Updated driver version to 10.01.00.52.07.6-k1

Added support for the following:

- o Add more Firmware debug information
- o Add error handling for Port Login (PLOGI) Extended Link Service (ELS) passthrough
- o Improved secure flash support messages

Supported Devices and Features

This driver supports the following HPE adapters:

- o HPE 81Q PCIe Fibre Channel Host Bus Adapter
- o HPE 82Q 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric 84Q 4P 8Gb Fibre Channel HBA
- o HPE QMH2572 8Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem
- o HPE QMH2672 16Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem
- o HPE StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1100Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1100Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

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

Version: 4.6.0.0 (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**

Add support for iLO 5 version 2.x firmware.

---

### **Package: iLO 5 Automatic Server Recovery Driver for Windows Server 2016 and Server 2019**

Version: 4.6.0.0 (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**

- o Add support for iLO 5 version 2.x firmware.
- o Add support for HPE ProLiant Gen10 Plus servers.

---

### **Package: iLO 5 Channel Interface Driver for Windows Server 2012 R2**

Version: 4.6.0.0 (Optional)

### **Enhancements**

Add support for iLO 5 version 2.x firmware.

---

### **Package: iLO 5 Channel Interface Driver for Windows Server 2016 and Server 2019**

Version: 4.6.0.0 (Optional)

### **Enhancements**

- o Add support for iLO 5 version 2.x firmware.
- o Add support for HPE ProLiant Gen10 Plus servers.

---

### **Package: Matrox G200eH3 Video Controller Driver for Windows Server 2012 R2**

Version: 9.15.1.224 (B) (Optional)

### **Enhancements**

Add support for iLO 5 version 2.x firmware.

---

### **Package: Matrox G200eH3 Video Controller Driver for Windows Server 2016 and Server 2019**

Version: 9.15.1.224 (B) (Optional)

### **Enhancements**

- o Add support for iLO 5 version 2.x firmware.
- o Add support for HPE ProLiant Gen10 Plus servers.

---

### **Package: Language Pack - Japanese**

Version: 2.10 (Recommended)

### **Prerequisites**

Requires iLO 5 firmware version 1.10 or higher

### **Fixes**

Various translation fixes.

### **Enhancements**

Japanese Language Pack to support iLO5 firmware v2.10

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**Package: Language Pack - Japanese**

Version: 2.10 (Recommended)

**Fixes**

Various translation fixes.

**Enhancements**

Japanese Language Pack to support iLO5 firmware v2.10

---

**Package: Online ROM Flash Component for Linux - iLO 5**

Version: 1.40 (Recommended)

**Enhancements**

List your enhancements here.

---

**Package: Online ROM Flash Component for Linux - iLO 5**

Version: 2.10 (Recommended)

**Fixes**

- o Fixed an issue causing the iLO clock to change incorrectly upon iLO reset due to a configuration change, firmware update, or cause other than system power loss.
- o Improved support for system GPUs which could be listed without showing GPU version data.
- o Fixed an issue where the server may stop responding for as long as three minutes during Boot if the Domain Name System (DNS) is unavailable.
- o Fixed an issue where some of the Security Dashboard information is missing in AHS file.
- o Elevating iLO Encryption Security State to High Security or higher requires iLO credentials for component updates.

**Enhancements**

This version adds support for the following features and enhancements:

- o A new Security Log page is available
- o Extended Secure Start to CPLD on Gen 10 Plys servers.
- o Tuning menu is now changed to Performance menu in iLO User Interface
- o Improved NAND error detection and recovery
- o Added an alert for recovery events
- o Update tools working in High Security modes
- o Staging of firmware for flashing of direct attached Hard Drives via UEFI system utilities
- o Added a feature to import and to export drive bay mapping information
- o Daily firmware flash limit, to protect iLO, ROM, and CPLD from repeated flashing attacks.
- o iLO logs performance data into AHS
- o Increase certificate size limit from 4096 to 8096 bytes.
- o Upon resetting iLO to defaults, Virtual NIC is enabled.
- o Added few new System Diagnostics features

- \* Booting to safe mode
- \* Booting to intelligent diagnostics mode
- \* Restoring the default manufacturing settings
- \* Restoring the default system settings
- o An option to select the Timezone for Europe / Moscow GMT +3 is now available

---

**Package: Online ROM Flash Component for Linux - iLO 5**

Version: 2.10 (Recommended)

**Fixes**

- o Fixed an issue causing the iLO clock to change incorrectly upon iLO reset due to a configuration change, firmware update, or cause other than system power loss.
- o Improved support for system GPUs which could be listed without showing GPU version data.
- o Fixed an issue where the server may stop responding for as long as three minutes during Boot if the Domain Name System (DNS) is unavailable.
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**Package: Online ROM Flash Component for Windows x64 - iLO 5**

Version: 1.40 (Recommended)

**Enhancements**

List your enhancements here.

---

**Package: Online ROM Flash Component for Windows x64 - iLO 5**

Version: 2.10 (Recommended)

**Fixes**

- o Fixed an issue causing the iLO clock to change incorrectly upon iLO reset due to a configuration change, firmware update, or cause other than system power loss.
- o Improved support for system GPUs which could be listed without showing GPU version data.
- o Fixed an issue where the server may stop responding for as long as three minutes during Boot if the Domain Name System (DNS) is unavailable.
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  - \* Restoring the default system settings
- o An option to select the Timezone for Europe / Moscow GMT +3 is now available

---

**Package: Online ROM Flash Component for Windows x64 - iLO 5**

Version: 2.10 (Recommended)

## **Fixes**

- o Fixed an issue causing the iLO clock to change incorrectly upon iLO reset due to a configuration change, firmware update, or cause other than system power loss.
- o Improved support for system GPUs which could be listed without showing GPU version data.
- o Fixed an issue where the server may stop responding for as long as three minutes during Boot if the Domain Name System (DNS) is unavailable.
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## **Enhancements**

This version adds support for the following features and enhancements:

- o A new Security Log page is available
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  - \* Restoring the default system settings
- o An option to select the Timezone for Europe / Moscow GMT +3 is now available

---

### **Package: Online ROM Flash Firmware Package - iLO 5**

Version: 1.40 (Recommended)

## **Enhancements**

List your enhancements here.

---

### **Package: Online ROM Flash Firmware Package - iLO 5**

Version: 2.10 (Recommended)

## **Fixes**

- o Fixed an issue causing the iLO clock to change incorrectly upon iLO reset due to a configuration change,



firmware update, or cause other than system power loss.

- o Improved support for system GPUs which could be listed without showing GPU version data.
- o Fixed an issue where the server may stop responding for as long as three minutes during Boot if the Domain Name System (DNS) is unavailable.
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- o An option to select the Timezone for Europe / Moscow GMT +3 is now available

---

## **Package: Online ROM Flash Firmware Package - iLO 5**

Version: 2.10 (Recommended)

## **Fixes**

- o Fixed an issue causing the iLO clock to change incorrectly upon iLO reset due to a configuration change, firmware update, or cause other than system power loss.
- o Improved support for system GPUs which could be listed without showing GPU version data.
- o Fixed an issue where the server may stop responding for as long as three minutes during Boot if the Domain Name System (DNS) is unavailable.
- o Fixed an issue where some of the Security Dashboard information is missing in AHS file.
- o Elevating iLO Encryption Security State to High Security or higher requires iLO credentials for component updates.

## **Enhancements**

This version adds support for the following features and enhancements:

- o A new Security Log page is available
- o Extended Secure Start to CPLD on Gen 10 Plys servers.
- o Tuning menu is now changed to Performance menu in iLO User Interface
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- o iLO logs performance data into AHS
- o Increase certificate size limit from 4096 to 8096 bytes.
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- o Added few new System Diagnostics features
  - \* Booting to safe mode
  - \* Booting to intelligent diagnostics mode
  - \* Restoring the default manufacturing settings
  - \* Restoring the default system settings
- o An option to select the Timezone for Europe / Moscow GMT +3 is now available

---

## **Package: HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for Linux x86\_64**

Version: 1.7.6 (Optional)

### **Important Note!**

HPE recommends the HPE Broadcom NetXtreme-E Drivers for Linux, versions 1.9.2-214.0.182.0(B) 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.

## **Enhancements**

Supported Devices and Features

This product supports the following network adapters:

- o HPE Ethernet 10Gb 2-port 535FLR-T Adapter
- o HPE Ethernet 10Gb 2-port 535T Adapter
- o HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter
- o HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter

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## **Package: HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for VMware**

Version: 5.9.5 (Optional)

### **Important Note!**

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

This software package contains NVM Image version 214.0.224000 with the following firmware versions:

NIC

Bootcode Version

NCSI Version

MBA Version

UEFI Version

CCM Version

RoCE Version

HPE Ethernet 10Gb 2-port 535FLR-T Adapter

214.0.224.0

214.0.223.0

214.0.218.0

214.0.207.0

214.0.218.0

214.0.182.0

HPE Ethernet 10Gb 2-port 535T Adapter

HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter

HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter

### **Prerequisites**

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

### **Enhancements**

Supported Devices and Features

This product supports the following network adapters:

- o HPE Ethernet 10Gb 2-port 535FLR-T Adapter
- o HPE Ethernet 10Gb 2-port 535T Adapter
- o HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter
- o HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter

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### **Package: HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for Windows Server x64 Editions**

Version: 5.2.0.0 (Optional)

### **Important Note!**

HPE recommends HPE Broadcom NetXtreme-E Driver for Windows, versions 214.0.177.0 (B) 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.

### **Enhancements**

Supported Devices and Features

This product supports the following network adapters:

- o HPE Ethernet 10Gb 2-port 535FLR-T Adapter
- o HPE Ethernet 10Gb 2-port 535T Adapter
- o HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter
- o HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter

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

Version: 2.24.2 (Optional)

### **Important Note!**

HPE recommends HPE Broadcom tg3 Ethernet Drivers, versions 3.138a 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.

### **Enhancements**

Supported Devices and Features

This product supports the following network adapters:

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

---

### **Package: HPE Broadcom NX1 Online Firmware Upgrade Utility for VMware**

Version: 1.25.2 (Optional)

### **Important Note!**

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

This software package contains combo image v20.14.57 with the following firmware versions:

NIC

Boot Code Version

PXE Version

NCSI Version

UEFI Version

CCM Version

HPE Ethernet 1Gb 2-port 330i Adapter (22BD)

2.1

20.14.0

1.5.01

20.14.19

214.0.166.0

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

HPE Ethernet 1Gb 4-port 331FLR Adapter

HPE Ethernet 1Gb 4-port 331T Adapter

1.46

20.14.0

1.5.01

20.14.19

214.0.166.0

HPE Ethernet 1Gb 2-port 332i Adapter (22E8)

HPE Ethernet 1Gb 2-port 332T Adapter

1.4

20.14.0

1.5.01

20.14.19

214.0.166.0

### **Prerequisites**

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

### **Enhancements**

Supported Devices and Features

This product supports the following network adapters:

o HPE Ethernet 1Gb 2-port 330i Adapter (22BD)

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

o HPE Ethernet 1Gb 4-port 331FLR Adapter

o HPE Ethernet 1Gb 4-port 331T Adapter

o HPE Ethernet 1Gb 2-port 332i Adapter (22E8)

o HPE Ethernet 1Gb 2-port 332T Adapter

---

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

Version: 5.2.0.0 (Optional)

### **Important Note!**

HPE recommends HPE Broadcom NX1 1Gb Driver for Windows Server x64 Editions, version 214.0.0.0(C) 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.

## **Enhancements**

Supported Devices and Features

This product supports the following network adapters:

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

---

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

Version: 1.19.11 (Optional)

## **Important Note!**

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

- o HPE Intel igb Drivers for Linux, versions 6.2.1 or later
- o HPE Intel ixgbe Drivers for Linux , versions 5.6.4 or later
- o HPE Intel i40e Drivers for Linux, versions 2.10.19.30 or later

## **Prerequisites**

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

## **Fixes**

This product addresses an issue where LLDP are disabled.

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

This product addresses an issue where Firmware upgrade fail in SLES15 with secureboot enabled.

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

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

## **Enhancements**

Supported Devices and Features

This package supports the following network adapters:

- o HP Ethernet 1Gb 4-port 366T Adapter
- o HP Ethernet 1Gb 4-port 366FLR Adapter
- o HPE Ethernet 1Gb 2-port 368FLR-MMT Adapter

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

---

**Package: HPE Intel Online Firmware Upgrade Utility for VMware**

Version: 3.12.12 (Optional)

**Important Note!**

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

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

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

NIC

EEPROM/NVM Version

OROM Version

Single NVM Version

HP Ethernet 1Gb 2-port 361i Adapter

8000106F

1.2529.0

N/A

HP Ethernet 1Gb 2-port 361T Adapter

80000F91

1.2529.0

N/A

HP Ethernet 1Gb 2-port 363i Adapter

80000D00  
1.2529.0  
N/A  
HPE Ethernet 1Gb 4-port 366i Communication Board  
80000EBF  
1.2529.0  
N/A  
HP Ethernet 1Gb 4-port 366i Adapter  
8000105E  
1.2529.0  
N/A  
HP Ethernet 1Gb 4-port 366FLR Adapter  
80001060  
1.2529.0  
N/A  
HP Ethernet 1Gb 4-port 366T Adapter  
8000105F  
1.2529.0  
N/A  
HPE Ethernet 1Gb 2-port 368i Adapter  
80001DEA  
1.2529.0  
N/A  
HPE Ethernet 1Gb 2-port 368FLR-MMT Adapter  
80001DE9  
1.2529.0  
N/A  
HPE Ethernet 1Gb 4-port 369i Adapter  
80001DEC  
1.2529.0  
N/A  
HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter  
80000838  
1.2529.0  
N/A  
HPE Ethernet 10Gb 2-port 560SFP+ Adapter  
80000835  
1.2529.0  
N/A  
HPE Ethernet 10Gb 2-port 568i Adapter  
80001DEE



1.2529.0

N/A

HPE Ethernet 10Gb 2-port 568FLR-MMSFP+ Adapter

80001DE9

1.2529.0

N/A

HPE Ethernet 10Gb 2-port 568FLR-MMT Adapter

80001DE9

1.2529.0

N/A

HPE Ethernet 10Gb 2-port 563i Adapter

800035C0

1.1375.0

N/A

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

8000641A

1.2529.0

10.51.5

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

80000F56

1.2529.0

10.51.3

HPE Ethernet 10Gb 2-port 562SFP+ Adapter

80006424

1.2529.0

10.51.5

HPE Ethernet 10Gb 2-port 562T Adapter

80000F55

1.2529.0

10.51.3

The combo image v1.2529.0 includes: Boot Agent: 1GbE - v1.5.88, 10GbE - v2.4.34, 40GbE - v1.1.10 & UEFI

Drivers: 1GbE - v9.0.03, 10GbE - v7.4.06, 40GbE - v3.9.11

The combo image v1.1375.0 includes: Boot Agent: 1GbE - v1.5.72, 10GbE - v2.3.46, 40GbE - v1.0.21 & UEFI

Drivers: 1GbE - v6.9.13, 10GbE - v5.0.20, 40GbE - v1.5.14

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

### **Prerequisites**

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

## **Fixes**

This product addresses an issue where LLDP are disabled.

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

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

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

## **Enhancements**

Supported Devices and Features

This package supports the following network adapters:

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

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

Version: 5.2.0.0 (Optional)

## **Prerequisites**

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

## **Fixes**

This product addresses an issue where LLDP are disabled.

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

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

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

## **Enhancements**

Supported Devices and Features

This package supports the following network adapters:

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

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## **Package: HPE QLogic FastLinQ Online Firmware Upgrade Utility for Linux x86\_64**

Version: 1.8.12 (Optional)

### **Important Note!**

HPE recommends HPE QLogic FastLinQ 10/25/50GbE Drivers for Linux, versions 8.42.8.0-1 or later, for use with the firmware in this product.

### **Prerequisites**

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

### **Fixes**

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

## **Enhancements**

Supported Devices and Features

This product supports the following network adapters:

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

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## **Package: HPE QLogic FastLinQ Online Firmware Upgrade Utility for VMware**

Version: 4.11.9 (Optional)

### **Important Note!**

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

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

### **Prerequisites**

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

### **Fixes**

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

## **Enhancements**

Supported Devices and Features

This product supports the following network adapters:

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

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## **Package: HPE QLogic FastLinQ Online Firmware Upgrade Utility for Windows Server x64 Editions**

Version: 5.2.0.0 (Optional)

### **Important Note!**

HPE recommends HPE QLogic FastLinQ 10/25/50GbE Driver for Windows Server x64 Editions, versions

8.42.10.0 or later, for use with the firmware in this product.

### **Prerequisites**

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

### **Fixes**

This product addresses an issue where it failed to boot into iSCSI Boot LUN when Windows OS installed.

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

### **Enhancements**

Supported Devices and Features

This product supports the following network adapters:

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

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

Version: 2.26.7 (Optional)

### **Important Note!**

HPE recommends HPE QLogic NX2 10/20GbE Multifunction Drivers for Linux, versions 7.14.63-1 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 addresses an incorrect local sequence number in the Link Layer Discovery Protocol (LLDP).

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

### **Enhancements**

This product now supports the following operating systems:

Supported Devices and Features

This product supports the following network adapters:

- o HP Ethernet 10Gb 2-port 530SFP+ Adapter
- o HP Ethernet 10Gb 2-port 530T Adapter
- o HP Ethernet 10Gb 2-port 533FLR-T Adapter
- o HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter

- o HPE FlexFabric 10Gb 4-port 536FLR-T Adapter
- o HP StoreFabric CN1100R Dual Port Converged Network Adapter
- o HPE StoreFabric CN1100R-T Converged Network Adapter

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**Package: HPE QLogic NX2 Online Firmware Upgrade Utility for VMware**

Version: 1.26.4 (Optional)

**Important Note!**

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

This software package contains combo image v7.18.23 with the following firmware versions:

NIC

Boot Code Version

PXE Version

UEFI Version

iSCSI Version

FCoE Version

CCM Version

L2 Version

HP Ethernet 10Gb 2-port 530SFP+ Adapter

HP Ethernet 10Gb 2-port 530T Adapter

7.15.77

7.14.13

8.4.2

n/a

n/a

7.14.4

7.12.25

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

HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter

HPE FlexFabric 10Gb 4-port 536FLR-T Adapter

HP StoreFabric CN1100R Dual Port Converged Network Adapter

HPE StoreFabric CN1100R-T Converged Network Adapter

7.15.77

7.14.13

8.4.2

7.14.0

7.14.3

7.14.4

7.12.25

### **Prerequisites**

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

### **Fixes**

This product addresses an incorrect local sequence number in the Link Layer Discovery Protocol (LLDP).  
This product addresses an issue where boot mode is not restored to the default value after a factory reset.

### **Enhancements**

Supported Devices and Features

This product supports the following network adapters:

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

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

Version: 5.2.0.0 (Optional)

### **Important Note!**

HPE recommends HPE QLogic NX2 10/20GbE Multifunction Drivers for Windows Server x64 Editions, version 7.13.171.0 or later, for use with this firmware.

### **Prerequisites**

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

### **Fixes**

This product addresses an incorrect local sequence number in the Link Layer Discovery Protocol (LLDP).  
This product addresses an issue where boot mode is not restored to the default value after a factory reset.

### **Enhancements**

Supported Devices and Features

This product supports the following network adapters:

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

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## Package: Online Firmware Upgrade Utility (ESXi 6.5) for HPE Mellanox Ethernet only adapters

Version: 1.0.6 (Recommended)

### **Important Note!**

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

The latest version of Online Firmware Upgrade Utility (ESXi 6.5) for HPE Mellanox Ethernet only Mezzanine adapters 1.0.0 supported on HPE Synergy Servers is available on HPE support center,

[https://support.hpe.com/hpsc/swd/public/detail?swItemId=MTX\\_955f15089f6940debbd06394c9](https://support.hpe.com/hpsc/swd/public/detail?swItemId=MTX_955f15089f6940debbd06394c9)

Known Issues for FW version 2.42.5044 :

- o When using the QSFP module RTX320-581, and performing a driver restart for the firmware upgrade/downgrade to take effect, the link does not come up.
- o Enabling/disabling cq\_timestamp using mlxconfig is not supported.
- o In a card with 2 separate LEDs scheme (a Phy LED and a logic LED) only the Phy LED will lit. Meaning, the orange LED will not be active while the ETH link is in an idle mode.
- o In SR-IOV setup, using mlxconfig when the PF is passed through to a VM requires a reboot of the Hypervisor.
- o Downgrade to previous GA requires server reboot. Downgrading from v2.30.8000 or later to an earlier version than 2.30.8000 requires server reboot. Reboot the server.
- o On ConnectX-3 Ethernet adapter cards, there is a mismatch between the GUID value returned by firmware management tools and that returned by fabric/driver utilities that read the GUID via device firmware (e.g., using ibstat). Mlxburn/flint return 0xffff as GUID while the utilities return a value derived from the MAC address. For all driver/firmware/software purposes, the latter value should be used.
- o SBR should be asserted for a minimum of 50 milliseconds for the ConnectX -3 adapters
- o On Pilot1 SL230, PCIe link occasionally does not come up at Gen3 speed
- o RH6.3 Inbox driver causes kernel panic when SR-IOV is enabled on VPI cards due to driver compatibility issue.
- o In advanced steering mode, side band management connectivity may be lost when having more than 8 QP per mcg.
- o When SR-IOV is disabled in the system BIOS, a PCI issue is noticed in Ubuntu v12.04.3 with Linux kernel v3.8 which affects NICs of several manufacturers including Mellanox's, preventing them from operating.
- o MFT tools might leave the flash semaphore locked if the tool operation is forced stopped. The locked semaphore prevents the firmware from accessing the flash and causes firmware hang.
- o Cable Info MAD reports a wrong cable info when using the MC2210411-SR4 module
- o Gen2 failure at temperature sweep up to 10C/min (for MT27518A1-FDIR-BV only).
- o PCIe Gen2 link unstable at temperature sweep of 10C/min for MT27518A1-FDIR-BV
- o Bloom filter is currently not supported.
- o Firmware downgrade message When downgrading from firmware v2.11.0000 and using MFT 3.0.0-3
- o RM#DMFS should not be enabled when working with InfiniBand on MLNX\_OFED-2.0.3
- o RM#VPD read-only fields are writable.



- o Increasing SymbolErrorCounter When working in VPI mode with port1 FDR and port2 40G, error counters misbehave and increase rapidly
  - o Setting the device to 128Byte CQ/EQ stride will cause misbehavior of sideband management resulting in communication loss.
  - o CQ and EQ cannot be configured to different stride sizes.
  - o ConnectX-3 Pro VF device ID is presented the same as ConnectX-3 VF device ID due to driver limitations.
  - o RSOD while running PXE (legacy) on G9 servers. This occurs only when PXE boot fails and BIOS boots from HDD. Currently it is pending BIOS fix.
  - o Changing port protocol from ETH to IB on port with NCSI/IPMI enabled while the port is connected to ETH switch is not supported.
  - o RDP over IPv6 is currently not functional.
  - o Sniffer QP cannot be removed from the regular rule after adding the QP with insertion scheme equals to “push to that rule”
  - o Since only a single Boot Entry Vector (BEV) per PCI Physical Function is supported, disabling the first port causes the second port to disappear as well.
  - o The NIC does not notify the driver of a link-down incident when a cable is unplugged from a NIC port with 56GbE port link.
  - o 56GbE link is not raised when using 100GbE optic cables.
  - o When working with MLNX\_OFED v3.3-1.0.0.0, server reboot could get stuck due to a kernel panic in `mlx-4_en_get_drvinfo()` that is called from asynchronous event handler.
  - o 832298:When running `ibdump`, loopback traffic is mirroring into the kernel driver.
  - o AHS reports wrong MTU size
  - o RM#846523: MAC address that are set from the OS using `ifconfig` are not reflected in the OCBB buffer
- Known Issues for FW version 14.26.1040 :
- o Hardware arbitration is currently disabled in OCP3.0 cards. It will be supported on future releases for the same hardware.
  - o Secure state is not updated after firmware burning due to the following behavior.
  - o Since Packet Pacing enforce `max_tc` value is “1”, features that require multiple TCs will not be active when this mode is available.
  - o Due to performance considerations, unicast loopback traffic will go through the NIC SX tables, and multicast loopback traffic will skip the NIC SX tables.
- Known Issues for FW version 16.26.1040 :
- o Occasionally Bluescreen might occur when using `mlxfwreset` for Socket Direct devices on Windows.
  - o `SX_RDMA` is not supported when Dual Port RoCE feature is enabled. Due to this behavior, packets sent on other port are be processed by the `SX_RDMA` table.
  - o Hardware arbitration is currently disabled in OCP3.0 cards. It will be supported on future releases for the same hardware.
  - o The `sw_reset` option is not supported when ATS is enabled.
  - o When using the hairpin feature, and using VLAN strip or using the “modify esw vport context” command, the packets can have an incorrect VLAN header.
  - o DC LAG can function only in case there is a single PF per port without any active VFs.

- o Due to performance considerations, unicast loopback traffic will go through the NIC SX tables, and multicast loopback traffic will skip the NIC SX tables.
- o Firmware asserts may occur when setting the PF\_BAR2\_SIZE value higher than the maximum supported size.

## **Fixes**

### **Fixes submitted in version 2.42.5044 :**

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

### **Fixes submitted in version 14.26.1040:**

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

### **Fixes submitted in version 16.26.1040:**

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

## **Enhancements**

Firmware for the following devices are updated to 2.42.5044 :

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

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

Firmware for the following devices are updated to 14.26.1040:

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

Firmware for the following devices are updated to 14.26.1040 :

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

Firmware for the following device is updated to 16.26.1040 :

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

New features and changes in version 14.26.1040 and 16.26.1040 :

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

New features and changes in version 16.26.1040 :

o Added support for the following features:

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

Supported Devices and Features

HPE Part Number

Mellanox Ethernet Only Adapters

PSID

779793-B21

HP Ethernet 10Gb 2-port 546SFP+ Adapter

HP\_1200111023

779799-B21

HP Ethernet 10Gb 2-port 546FLR-SFP+ Adapter

HP\_2240110004

817749-B21

HPE Ethernet 25Gb 2-port 640FLR-SFP28 Adapter

HP\_2690110034

817753-B21

HPE Ethernet 25Gb 2-port 640SFP28 Adapter

HP\_2420110034

874253-B21

HPE Ethernet 100Gb 1-port 842QSFP28 Adapter

HPE0000000014

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

Version: 1.0.5 (Recommended)

**Important Note!**

Known Issues in firmware 12.26.1040:

- o Secure state is not updated after firmware burning due to the following behavior.

By default, mlxfwreset takes the lowest supported fwreset level. Changing to/from secure boot keeps the firmware versions the same except for when performing INI changes. As a result, the reset level 0 is set as the default value while resetting after burning.

Workaround: Set the reset level to 3 explicitly in mlxfwreset.

- o Since Packet Pacing enforce max\_tc value is "1", features that require multiple TCs will not be active when this mode is available.

- o Due to performance considerations, unicast loopback traffic will go through the NIC SX tables, and multicast loopback traffic will skip the NIC SX tables.

Known Issues in firmware 16.26.1040:

- o Occasionally Bluescreen might occur when using mlxfwreset for Socket Direct devices on Windows.

- o SX\_RDMA is not supported when Dual Port RoCE feature is enabled. Due to this behavior, packets sent on other port are be processed by the SX\_RDMA table.

Workaround: Use SX\_RDMA with Dual Port GVMI instead.

- o Hardware arbitration is currently disabled in OCP3.0 cards. It will be supported on future releases for the same hardware.

- o The sw\_reset option is not supported when ATS is enabled.

- o When using the hairpin feature, and using VLAN strip or using the "modify esw vport context" command, the packets can have an incorrect VLAN header. Meaning, using VLAN push/pop may not work properly when using vport context VLAN.

The features that may be affected by this and not work properly are:

- \* Host chaining

- \* Mirroring in FDB

- \* TTL modify in FDB

- \* VGT+

- o DC LAG can function only in case there is a single PF per port without any active VFs.

- o Due to performance considerations, unicast loopback traffic will go through the NIC SX tables, and multicast loopback traffic will skip the NIC SX tables.

- o Firmware asserts may occur when setting the PF\_BAR2\_SIZE value higher than the maximum supported size (maximum PF\_BAR2\_SIZE is 4 for .

Workaround: Configure within limits (NIC PF\_BAR\_SIZE <= 4).

- o CWDM4 AOM cable is currently not supported.

## **Fixes**

### **Fixes submitted in version 12.26.1040:**

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

### **Fixes submitted in version 16.26.1040:**

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

## **Enhancements**

Firmware for the following devices are updated to 12.26.1040:

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

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

Firmware for the following devices are updated to 16.26.1040:

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

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

Changes and New features in firmware version 12.26.1040 and 16.26.1040:

- o Enabled the firmware by using the ICMD commands to deal with diagnostic counters similar to cmdif.

They can be called via the vsec space. The counters' values are returned only via the tracer. The ICMD Query Caps indicate support and expose the list of the supported counters.

o User Context Object (DEVX) is a containerized sandbox per user, to access PRM command securely by using General Object commands, UMEM and UCTX contexts. The allowed functionalities of this capability depend on the user permissions.

The following functionalities are still managed by the Kernel:

- \* Resource cleaning

- \* UCTX stamping

- \* Blocking the physical address and IRQ from these UCTX

o Added support for reporting the supported affiliated and unaffiliated asynchronous events to DEVX users through the command interface.

o Zero-Touch-RoCE counters are now available to the user for debuggability purposes when using the Zero-Touch-RoCE feature.

o This release contains important reliability improvements and security hardening enhancements.

Mellanox recommends upgrading your device firmware to this release to improve the device firmware security and reliability.

Changes and New features in firmware version 16.26.1040:

o Added support for the following features:

- \* Address Translation Service (ATS) support for MKEY and UMEM.

- \* Exposing the Vital Product Data (VPD) on Virtual Function (VF).

- \* Hairpin Drop Counter.

- \* Hairpin and TM RNDV QPs to work with DevX.

- \* Creating software managed steering tables in eSwitch/Forwarding Table (FDB).

Supported Devices and Features

HPE Part Number

Device Name

PSID

825110-B21

HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter

HP\_2180110032

825111-B21

HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter

HP\_2190110032

872726-B21

HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter

HPE0000000009

879482-B21

HPE InfiniBand FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter

HPE0000000022

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**Package: Online Firmware Upgrade Utility (ESXi 6.7) for HPE Mellanox Ethernet only adapters**

Version: 1.0.2 (Recommended)

**Important Note!**

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

The latest version of Online Firmware Upgrade Utility (ESXi 6.7) for HPE Mellanox Ethernet only Mezzanine adapters 1.0.0 supported on HPE Synergy Servers is available on HPE support center,

[https://support.hpe.com/hpsc/swd/public/detail?swItemId=MTX\\_b5a6ed2c31e14450a58981fa02](https://support.hpe.com/hpsc/swd/public/detail?swItemId=MTX_b5a6ed2c31e14450a58981fa02)

Known Issues for FW version 2.42.5044 :

- o When using the QSFP module RTX320-581, and performing a driver restart for the firmware upgrade/downgrade to take effect, the link does not come up.
- o Enabling/disabling cq\_timestamp using mlxconfig is not supported.
- o In a card with 2 separate LEDs scheme (a Phy LED and a logic LED) only the Phy LED will lit. Meaning, the orange LED will not be active while the ETH link is in an idle mode.
- o In SR-IOV setup, using mlxconfig when the PF is passed through to a VM requires a reboot of the Hypervisor.
- o Downgrade to previous GA requires server reboot. Downgrading from v2.30.8000 or later to an earlier version than 2.30.8000 requires server reboot. Reboot the server.
- o On ConnectX-3 Ethernet adapter cards, there is a mismatch between the GUID value returned by firmware management tools and that returned by fabric/driver utilities that read the GUID via device firmware (e.g., using ibstat). Mlxburn/flint return 0xffff as GUID while the utilities return a value derived from the MAC address. For all driver/firmware/software purposes, the latter value should be used.
- o SBR should be asserted for a minimum of 50 milliseconds for the ConnectX -3 adapters
- o On Pilot1 SL230, PCIe link occasionally does not come up at Gen3 speed
- o RH6.3 Inbox driver causes kernel panic when SR-IOV is enabled on VPI cards due to driver compatibility issue.
- o In advanced steering mode, side band management connectivity may be lost when having more than 8 QP per mcg.
- o When SR-IOV is disabled in the system BIOS, a PCI issue is noticed in Ubuntu v12.04.3 with Linux kernel v3.8 which affects NICs of several manufacturers including Mellanox's, preventing them from operating.
- o MFT tools might leave the flash semaphore locked if the tool operation is forced stopped. The locked semaphore prevents the firmware from accessing the flash and causes firmware hang.
- o Cable Info MAD reports a wrong cable info when using the MC2210411-SR4 module
- o Gen2 failure at temperature sweep up to 10C/min (for MT27518A1-FDIR-BV only).
- o PCIe Gen2 link unstable at temperature sweep of 10C/min for MT27518A1-FDIR-BV
- o Bloom filter is currently not supported.
- o Firmware downgrade message When downgrading from firmware v2.11.0000 and using MFT 3.0.0-3
- o RM#DMFS should not be enabled when working with InfiniBand on MLNX\_OFED-2.0.3
- o RM#VPD read-only fields are writable.

- o Increasing SymbolErrorCounter When working in VPI mode with port1 FDR and port2 40G, error counters misbehave and increase rapidly
  - o Setting the device to 128Byte CQ/EQ stride will cause misbehavior of sideband management resulting in communication loss.
  - o CQ and EQ cannot be configured to different stride sizes.
  - o ConnectX-3 Pro VF device ID is presented the same as ConnectX-3 VF device ID due to driver limitations.
  - o RSOD while running PXE (legacy) on G9 servers. This occurs only when PXE boot fails and BIOS boots from HDD. Currently it is pending BIOS fix.
  - o Changing port protocol from ETH to IB on port with NCSI/IPMI enabled while the port is connected to ETH switch is not supported.
  - o RDP over IPv6 is currently not functional.
  - o Sniffer QP cannot be removed from the regular rule after adding the QP with insertion scheme equals to “push to that rule”
  - o Since only a single Boot Entry Vector (BEV) per PCI Physical Function is supported, disabling the first port causes the second port to disappear as well.
  - o The NIC does not notify the driver of a link-down incident when a cable is unplugged from a NIC port with 56GbE port link.
  - o 56GbE link is not raised when using 100GbE optic cables.
  - o When working with MLNX\_OFED v3.3-1.0.0.0, server reboot could get stuck due to a kernel panic in mlx-4\_en\_get\_drvinfo() that is called from asynchronous event handler.
  - o 832298:When running ibdump, loopback traffic is mirroring into the kernel driver.
  - o AHS reports wrong MTU size
  - o RM#846523: MAC address that are set from the OS using ifconfig are not reflected in the OCBB buffer
- Known Issues for FW version 14.26.1040 :
- o Hardware arbitration is currently disabled in OCP3.0 cards. It will be supported on future releases for the same hardware.
  - o Secure state is not updated after firmware burning due to the following behavior.
  - o Since Packet Pacing enforce max\_tc value is “1”, features that require multiple TCs will not be active when this mode is available.
  - o Due to performance considerations, unicast loopback traffic will go through the NIC SX tables, and multicast loopback traffic will skip the NIC SX tables.
- Known Issues for FW version 16.26.1040 :
- o Occasionally Bluescreen might occur when using mlxfwreset for Socket Direct devices on Windows.
  - o SX\_RDMA is not supported when Dual Port RoCE feature is enabled. Due to this behavior, packets sent on other port are be processed by the SX\_RDMA table.
  - o Hardware arbitration is currently disabled in OCP3.0 cards. It will be supported on future releases for the same hardware.
  - o The sw\_reset option is not supported when ATS is enabled.
  - o When using the hairpin feature, and using VLAN strip or using the “modify esw vport context” command, the packets can have an incorrect VLAN header.
  - o DC LAG can function only in case there is a single PF per port without any active VFs.



- o Due to performance considerations, unicast loopback traffic will go through the NIC SX tables, and multicast loopback traffic will skip the NIC SX tables.
- o Firmware asserts may occur when setting the PF\_BAR2\_SIZE value higher than the maximum supported size.

## **Fixes**

### **Fixes submitted in version 2.42.5044 :**

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

### **Fixes submitted in version 14.26.1040:**

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

### **Fixes submitted in version 16.26.1040:**

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

## **Enhancements**

Firmware for the following devices are updated to 2.42.5044 :

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

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

Firmware for the following devices are updated to 14.26.1040:

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

Firmware for the following devices are updated to 14.26.1040 :

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

Firmware for the following device is updated to 16.26.1040 :

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

New features and changes in version 14.26.1040 and 16.26.1040 :

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

New features and changes in version 16.26.1040 :

o Added support for the following features:

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

Supported Devices and Features

HPE Part Number

Mellanox Ethernet Only Adapters

PSID

779793-B21

HP Ethernet 10Gb 2-port 546SFP+ Adapter

HP\_1200111023

779799-B21

HP Ethernet 10Gb 2-port 546FLR-SFP+ Adapter

HP\_2240110004

817749-B21

HPE Ethernet 25Gb 2-port 640FLR-SFP28 Adapter

HP\_2690110034

817753-B21

HPE Ethernet 25Gb 2-port 640SFP28 Adapter

HP\_2420110034

874253-B21

HPE Ethernet 100Gb 1-port 842QSFP28 Adapter

HPE0000000014

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**Package: Online Firmware Upgrade Utility (ESXi 6.7) for HPE Mellanox VPI (Ethernet and Infiniband mode)  
ConnectX4 and ConnectX5 devices on VMware ESXi 6.7**

Version: 1.0.1 (Recommended)

**Important Note!**

Known Issues in firmware 12.26.1040:

- o Secure state is not updated after firmware burning due to the following behavior.

By default, mlxfwreset takes the lowest supported fwreset level. Changing to/from secure boot keeps the firmware versions the same except for when performing INI changes. As a result, the reset level 0 is set as the default value while resetting after burning.

Workaround: Set the reset level to 3 explicitly in mlxfwreset.

- o Since Packet Pacing enforce max\_tc value is "1", features that require multiple TCs will not be active when this mode is available.

- o Due to performance considerations, unicast loopback traffic will go through the NIC SX tables, and multicast loopback traffic will skip the NIC SX tables.

Known Issues in firmware 16.26.1040:

- o Occasionally Bluescreen might occur when using mlxfwreset for Socket Direct devices on Windows.

- o SX\_RDMA is not supported when Dual Port RoCE feature is enabled. Due to this behavior, packets sent on other port are be processed by the SX\_RDMA table.

Workaround: Use SX\_RDMA with Dual Port GVMI instead.

- o Hardware arbitration is currently disabled in OCP3.0 cards. It will be supported on future releases for the same hardware.

- o The sw\_reset option is not supported when ATS is enabled.

- o When using the hairpin feature, and using VLAN strip or using the "modify esw vport context" command, the packets can have an incorrect VLAN header. Meaning, using VLAN push/pop may not work properly when using vport context VLAN.

The features that may be affected by this and not work properly are:

- \* Host chaining

- \* Mirroring in FDB

- \* TTL modify in FDB

- \* VGT+

- o DC LAG can function only in case there is a single PF per port without any active VFs.

- o Due to performance considerations, unicast loopback traffic will go through the NIC SX tables, and multicast loopback traffic will skip the NIC SX tables.

- o Firmware asserts may occur when setting the PF\_BAR2\_SIZE value higher than the maximum supported size (maximum PF\_BAR2\_SIZE is 4 for .

Workaround: Configure within limits (NIC PF\_BAR\_SIZE <= 4).

- o CWDM4 AOM cable is currently not supported.

## **Fixes**

### **Fixes submitted in version 12.26.1040:**

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

### **Fixes submitted in version 16.26.1040:**

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

## **Enhancements**

Firmware for the following devices are updated to 12.26.1040:

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

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

Firmware for the following devices are updated to 16.26.1040:

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

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

Changes and New features in firmware version 12.26.1040 and 16.26.1040:

- o Enabled the firmware by using the ICMD commands to deal with diagnostic counters similar to cmdif.

They can be called via the vsec space. The counters' values are returned only via the tracer. The ICMD Query Caps indicate support and expose the list of the supported counters.

o User Context Object (DEVX) is a containerized sandbox per user, to access PRM command securely by using General Object commands, UMEM and UCTX contexts. The allowed functionalities of this capability depend on the user permissions.

The following functionalities are still managed by the Kernel:

- \* Resource cleaning

- \* UCTX stamping

- \* Blocking the physical address and IRQ from these UCTX

o Added support for reporting the supported affiliated and unaffiliated asynchronous events to DEVX users through the command interface.

o Zero-Touch-RoCE counters are now available to the user for debuggability purposes when using the Zero-Touch-RoCE feature.

o This release contains important reliability improvements and security hardening enhancements.

Mellanox recommends upgrading your device firmware to this release to improve the device firmware security and reliability.

Changes and New features in firmware version 16.26.1040:

o Added support for the following features:

- \* Address Translation Service (ATS) support for MKEY and UMEM.

- \* Exposing the Vital Product Data (VPD) on Virtual Function (VF).

- \* Hairpin Drop Counter.

- \* Hairpin and TM RNDV QPs to work with DevX.

- \* Creating software managed steering tables in eSwitch/Forwarding Table (FDB).

Supported Devices and Features

HPE Part Number

Device Name

PSID

825110-B21

HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter

HP\_2180110032

825111-B21

HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter

HP\_2190110032

872726-B21

HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter

HPE0000000009

879482-B21

HPE InfiniBand FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter

HPE0000000022

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**Package: Online Firmware Upgrade Utility (Linux x86\_64) for HPE Mellanox Ethernet only adapters**

Version: 1.0.11 (Recommended)

**Important Note!**

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

The latest version of Online Firmware Upgrade Utility (Linux x86\_64) for HPE Mellanox Ethernet only Mezzanine adapters 1.0.0 supported on HPE Synergy Servers is available on HPE support center, [https://support.hpe.com/hpsc/swd/public/detail?swItemId=MTX\\_cb8abbcad5a34fd583b6cb32eb](https://support.hpe.com/hpsc/swd/public/detail?swItemId=MTX_cb8abbcad5a34fd583b6cb32eb)  
Known Issues for FW version 2.42.5044 :

- o When using the QSFP module RTX320-581, and performing a driver restart for the firmware upgrade/downgrade to take effect, the link does not come up.
- o Enabling/disabling cq\_timestamp using mlxconfig is not supported.
- o In a card with 2 separate LEDs scheme (a Phy LED and a logic LED) only the Phy LED will lit. Meaning, the orange LED will not be active while the ETH link is in an idle mode.
- o In SR-IOV setup, using mlxconfig when the PF is passed through to a VM requires a reboot of the Hypervisor.
- o Downgrade to previous GA requires server reboot. Downgrading from v2.30.8000 or later to an earlier version than 2.30.8000 requires server reboot. Reboot the server.
- o On ConnectX-3 Ethernet adapter cards, there is a mismatch between the GUID value returned by firmware management tools and that returned by fabric/driver utilities that read the GUID via device firmware (e.g., using ibstat). Mlxburn/flint return 0xffff as GUID while the utilities return a value derived from the MAC address. For all driver/firmware/software purposes, the latter value should be used.
- o SBR should be asserted for a minimum of 50 milliseconds for the ConnectX -3 adapters
- o On Pilot1 SL230, PCIe link occasionally does not come up at Gen3 speed
- o RH6.3 Inbox driver causes kernel panic when SR-IOV is enabled on VPI cards due to driver compatibility issue.
- o In advanced steering mode, side band management connectivity may be lost when having more than 8 QP per mcg.
- o When SR-IOV is disabled in the system BIOS, a PCI issue is noticed in Ubuntu v12.04.3 with Linux kernel v3.8 which affects NICs of several manufacturers including Mellanox's, preventing them from operating.
- o MFT tools might leave the flash semaphore locked if the tool operation is forced stopped. The locked semaphore prevents the firmware from accessing the flash and causes firmware hang.
- o Cable Info MAD reports a wrong cable info when using the MC2210411-SR4 module
- o Gen2 failure at temperature sweep up to 10C/min (for MT27518A1-FDIR-BV only).
- o PCIe Gen2 link unstable at temperature sweep of 10C/min for MT27518A1-FDIR-BV
- o Bloom filter is currently not supported.
- o Firmware downgrade message When downgrading from firmware v2.11.0000 and using MFT 3.0.0-3
- o RM#DMFS should not be enabled when working with InfiniBand on MLNX\_OFED-2.0.3
- o RM#VPD read-only fields are writable.

- o Increasing SymbolErrorCounter When working in VPI mode with port1 FDR and port2 40G, error counters misbehave and increase rapidly
  - o Setting the device to 128Byte CQ/EQ stride will cause misbehavior of sideband management resulting in communication loss.
  - o CQ and EQ cannot be configured to different stride sizes.
  - o ConnectX-3 Pro VF device ID is presented the same as ConnectX-3 VF device ID due to driver limitations.
  - o RSOD while running PXE (legacy) on G9 servers. This occurs only when PXE boot fails and BIOS boots from HDD. Currently it is pending BIOS fix.
  - o Changing port protocol from ETH to IB on port with NCSI/IPMI enabled while the port is connected to ETH switch is not supported.
  - o RDP over IPv6 is currently not functional.
  - o Sniffer QP cannot be removed from the regular rule after adding the QP with insertion scheme equals to “push to that rule”
  - o Since only a single Boot Entry Vector (BEV) per PCI Physical Function is supported, disabling the first port causes the second port to disappear as well.
  - o The NIC does not notify the driver of a link-down incident when a cable is unplugged from a NIC port with 56GbE port link.
  - o 56GbE link is not raised when using 100GbE optic cables.
  - o When working with MLNX\_OFED v3.3-1.0.0.0, server reboot could get stuck due to a kernel panic in `mlx-4_en_get_drvinfo()` that is called from asynchronous event handler.
  - o 832298:When running `ibdump`, loopback traffic is mirroring into the kernel driver.
  - o AHS reports wrong MTU size
  - o RM#846523: MAC address that are set from the OS using `ifconfig` are not reflected in the OCBB buffer
- Known Issues for FW version 14.26.1040 :
- o Hardware arbitration is currently disabled in OCP3.0 cards. It will be supported on future releases for the same hardware.
  - o Secure state is not updated after firmware burning due to the following behavior.
  - o Since Packet Pacing enforce `max_tc` value is “1”, features that require multiple TCs will not be active when this mode is available.
  - o Due to performance considerations, unicast loopback traffic will go through the NIC SX tables, and multicast loopback traffic will skip the NIC SX tables.
- Known Issues for FW version 16.26.1040 :
- o Occasionally Bluescreen might occur when using `mlxfwreset` for Socket Direct devices on Windows.
  - o `SX_RDMA` is not supported when Dual Port RoCE feature is enabled. Due to this behavior, packets sent on other port are be processed by the `SX_RDMA` table.
  - o Hardware arbitration is currently disabled in OCP3.0 cards. It will be supported on future releases for the same hardware.
  - o The `sw_reset` option is not supported when ATS is enabled.
  - o When using the hairpin feature, and using VLAN strip or using the “modify esw vport context” command, the packets can have an incorrect VLAN header.
  - o DC LAG can function only in case there is a single PF per port without any active VFs.

- o Due to performance considerations, unicast loopback traffic will go through the NIC SX tables, and multicast loopback traffic will skip the NIC SX tables.
- o Firmware asserts may occur when setting the PF\_BAR2\_SIZE value higher than the maximum supported size.

## **Fixes**

### **Fixes submitted in version 2.42.5044 :**

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

### **Fixes submitted in version 14.26.1040:**

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

### **Fixes submitted in version 16.26.1040:**

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

## **Enhancements**

Firmware for the following devices are updated to 2.42.5044 :

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

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

Firmware for the following devices are updated to 14.26.1040:

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



Firmware for the following devices are updated to 14.26.1040 :

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

Firmware for the following device is updated to 16.26.1040 :

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

New features and changes in version 14.26.1040 and 16.26.1040 :

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

New features and changes in version 16.26.1040 :

o Added support for the following features:

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

Supported Devices and Features

HPE Part Number

Mellanox Ethernet Only Adapters

PSID

779793-B21

HP Ethernet 10Gb 2-port 546SFP+ Adapter

HP\_1200111023

779799-B21

HP Ethernet 10Gb 2-port 546FLR-SFP+ Adapter

HP\_2240110004

817749-B21

HPE Ethernet 25Gb 2-port 640FLR-SFP28 Adapter

HP\_2690110034

817753-B21

HPE Ethernet 25Gb 2-port 640SFP28 Adapter

HP\_2420110034

874253-B21

HPE Ethernet 100Gb 1-port 842QSFP28 Adapter

HPE0000000014

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**Package: Online Firmware Upgrade Utility (Linux x86\_64) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX4 and ConnectX5 devices on Linux x86\_64 platform**

Version: 1.0.7 (Recommended)

**Important Note!**

Known Issues in firmware 12.26.1040:

- o Secure state is not updated after firmware burning due to the following behavior.

By default, mlxfwreset takes the lowest supported fwreset level. Changing to/from secure boot keeps the firmware versions the same except for when performing INI changes. As a result, the reset level 0 is set as the default value while resetting after burning.

Workaround: Set the reset level to 3 explicitly in mlxfwreset.

- o Since Packet Pacing enforce max\_tc value is "1", features that require multiple TCs will not be active when this mode is available.

- o Due to performance considerations, unicast loopback traffic will go through the NIC SX tables, and multicast loopback traffic will skip the NIC SX tables.

Known Issues in firmware 16.26.1040:

- o Occasionally Bluescreen might occur when using mlxfwreset for Socket Direct devices on Windows.

- o SX\_RDMA is not supported when Dual Port RoCE feature is enabled. Due to this behavior, packets sent on other port are be processed by the SX\_RDMA table.

Workaround: Use SX\_RDMA with Dual Port GVMi instead.

- o Hardware arbitration is currently disabled in OCP3.0 cards. It will be supported on future releases for the same hardware.

- o The sw\_reset option is not supported when ATS is enabled.

- o When using the hairpin feature, and using VLAN strip or using the "modify esw vport context" command, the packets can have an incorrect VLAN header. Meaning, using VLAN push/pop may not work properly when using vport context VLAN.

The features that may be affected by this and not work properly are:

- \* Host chaining

- \* Mirroring in FDB

- \* TTL modify in FDB

- \* VGT+

- o DC LAG can function only in case there is a single PF per port without any active VFs.

- o Due to performance considerations, unicast loopback traffic will go through the NIC SX tables, and multicast loopback traffic will skip the NIC SX tables.

- o Firmware asserts may occur when setting the PF\_BAR2\_SIZE value higher than the maximum supported size (maximum PF\_BAR2\_SIZE is 4 for .

Workaround: Configure within limits (NIC PF\_BAR\_SIZE <= 4).

- o CWDM4 AOM cable is currently not supported.

## **Fixes**

### **Fixes submitted in version 12.26.1040:**

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

### **Fixes submitted in version 16.26.1040:**

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

## **Enhancements**

Firmware for the following devices are updated to 12.26.1040:

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

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

Firmware for the following devices are updated to 16.26.1040:

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

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

Changes and New features in firmware version 12.26.1040 and 16.26.1040:

- o Enabled the firmware by using the ICMD commands to deal with diagnostic counters similar to cmdif.

They can be called via the vsec space. The counters' values are returned only via the tracer. The ICMD Query Caps indicate support and expose the list of the supported counters.

o User Context Object (DEVX) is a containerized sandbox per user, to access PRM command securely by using General Object commands, UMEM and UCTX contexts. The allowed functionalities of this capability depend on the user permissions.

The following functionalities are still managed by the Kernel:

- \* Resource cleaning

- \* UCTX stamping

- \* Blocking the physical address and IRQ from these UCTX

o Added support for reporting the supported affiliated and unaffiliated asynchronous events to DEVX users through the command interface.

o Zero-Touch-RoCE counters are now available to the user for debuggability purposes when using the Zero-Touch-RoCE feature.

o This release contains important reliability improvements and security hardening enhancements.

Mellanox recommends upgrading your device firmware to this release to improve the device firmware security and reliability.

Changes and New features in firmware version 16.26.1040:

o Added support for the following features:

- \* Address Translation Service (ATS) support for MKEY and UMEM.

- \* Exposing the Vital Product Data (VPD) on Virtual Function (VF).

- \* Hairpin Drop Counter.

- \* Hairpin and TM RNDV QPs to work with DevX.

- \* Creating software managed steering tables in eSwitch/Forwarding Table (FDB).

Supported Devices and Features

HPE Part Number

Device Name

PSID

825110-B21

HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter

HP\_2180110032

825111-B21

HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter

HP\_2190110032

872726-B21

HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter

HPE0000000009

879482-B21

HPE InfiniBand FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter

HPE0000000022

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**Package: Online Firmware Upgrade Utility (Windows x64) for HPE Mellanox Ethernet only adapters**

Version: 1.0.0.11 (Recommended)

**Important Note!**

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

The latest version of Online Firmware Upgrade Utility (Windows x64) for HPE Mellanox Ethernet only Mezzanine adapters 1.0.0.0 supported on HPE Synergy Servers is available on HPE support center, [https://support.hpe.com/hpsc/swd/public/detail?swItemId=MTX\\_8aecad7df99142abb36958c607](https://support.hpe.com/hpsc/swd/public/detail?swItemId=MTX_8aecad7df99142abb36958c607)  
Known Issues for FW version 2.42.5044 :

- o When using the QSFP module RTX320-581, and performing a driver restart for the firmware upgrade/downgrade to take effect, the link does not come up.
- o Enabling/disabling cq\_timestamp using mlxconfig is not supported.
- o In a card with 2 separate LEDs scheme (a Phy LED and a logic LED) only the Phy LED will lit. Meaning, the orange LED will not be active while the ETH link is in an idle mode.
- o In SR-IOV setup, using mlxconfig when the PF is passed through to a VM requires a reboot of the Hypervisor.
- o Downgrade to previous GA requires server reboot. Downgrading from v2.30.8000 or later to an earlier version than 2.30.8000 requires server reboot. Reboot the server.
- o On ConnectX-3 Ethernet adapter cards, there is a mismatch between the GUID value returned by firmware management tools and that returned by fabric/driver utilities that read the GUID via device firmware (e.g., using ibstat). Mlxburn/flint return 0xffff as GUID while the utilities return a value derived from the MAC address. For all driver/firmware/software purposes, the latter value should be used.
- o SBR should be asserted for a minimum of 50 milliseconds for the ConnectX -3 adapters
- o On Pilot1 SL230, PCIe link occasionally does not come up at Gen3 speed
- o RH6.3 Inbox driver causes kernel panic when SR-IOV is enabled on VPI cards due to driver compatibility issue.
- o In advanced steering mode, side band management connectivity may be lost when having more than 8 QP per mcg.
- o When SR-IOV is disabled in the system BIOS, a PCI issue is noticed in Ubuntu v12.04.3 with Linux kernel v3.8 which affects NICs of several manufacturers including Mellanox's, preventing them from operating.
- o MFT tools might leave the flash semaphore locked if the tool operation is forced stopped. The locked semaphore prevents the firmware from accessing the flash and causes firmware hang.
- o Cable Info MAD reports a wrong cable info when using the MC2210411-SR4 module
- o Gen2 failure at temperature sweep up to 10C/min (for MT27518A1-FDIR-BV only).
- o PCIe Gen2 link unstable at temperature sweep of 10C/min for MT27518A1-FDIR-BV
- o Bloom filter is currently not supported.
- o Firmware downgrade message When downgrading from firmware v2.11.0000 and using MFT 3.0.0-3
- o RM#DMFS should not be enabled when working with InfiniBand on MLNX\_OFED-2.0.3
- o RM#VPD read-only fields are writable.

- o Increasing SymbolErrorCounter When working in VPI mode with port1 FDR and port2 40G, error counters misbehave and increase rapidly
  - o Setting the device to 128Byte CQ/EQ stride will cause misbehavior of sideband management resulting in communication loss.
  - o CQ and EQ cannot be configured to different stride sizes.
  - o ConnectX-3 Pro VF device ID is presented the same as ConnectX-3 VF device ID due to driver limitations.
  - o RSOD while running PXE (legacy) on G9 servers. This occurs only when PXE boot fails and BIOS boots from HDD. Currently it is pending BIOS fix.
  - o Changing port protocol from ETH to IB on port with NCSI/IPMI enabled while the port is connected to ETH switch is not supported.
  - o RDP over IPv6 is currently not functional.
  - o Sniffer QP cannot be removed from the regular rule after adding the QP with insertion scheme equals to “push to that rule”
  - o Since only a single Boot Entry Vector (BEV) per PCI Physical Function is supported, disabling the first port causes the second port to disappear as well.
  - o The NIC does not notify the driver of a link-down incident when a cable is unplugged from a NIC port with 56GbE port link.
  - o 56GbE link is not raised when using 100GbE optic cables.
  - o When working with MLNX\_OFED v3.3-1.0.0.0, server reboot could get stuck due to a kernel panic in `mlx-4_en_get_drvinfo()` that is called from asynchronous event handler.
  - o 832298:When running `ibdump`, loopback traffic is mirroring into the kernel driver.
  - o AHS reports wrong MTU size
  - o RM#846523: MAC address that are set from the OS using `ifconfig` are not reflected in the OCBB buffer
- Known Issues for FW version 14.26.1040 :
- o Hardware arbitration is currently disabled in OCP3.0 cards. It will be supported on future releases for the same hardware.
  - o Secure state is not updated after firmware burning due to the following behavior.
  - o Since Packet Pacing enforce `max_tc` value is “1”, features that require multiple TCs will not be active when this mode is available.
  - o Due to performance considerations, unicast loopback traffic will go through the NIC SX tables, and multicast loopback traffic will skip the NIC SX tables.
- Known Issues for FW version 16.26.1040 :
- o Occasionally Bluescreen might occur when using `mlxfwreset` for Socket Direct devices on Windows.
  - o `SX_RDMA` is not supported when Dual Port RoCE feature is enabled. Due to this behavior, packets sent on other port are be processed by the `SX_RDMA` table.
  - o Hardware arbitration is currently disabled in OCP3.0 cards. It will be supported on future releases for the same hardware.
  - o The `sw_reset` option is not supported when ATS is enabled.
  - o When using the hairpin feature, and using VLAN strip or using the “modify esw vport context” command, the packets can have an incorrect VLAN header.
  - o DC LAG can function only in case there is a single PF per port without any active VFs.

- o Due to performance considerations, unicast loopback traffic will go through the NIC SX tables, and multicast loopback traffic will skip the NIC SX tables.
- o Firmware asserts may occur when setting the PF\_BAR2\_SIZE value higher than the maximum supported size.

## **Fixes**

### **Fixes submitted in version 2.42.5044 :**

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

### **Fixes submitted in version 14.26.1040:**

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

### **Fixes submitted in version 16.26.1040:**

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

## **Enhancements**

Firmware for the following devices are updated to 2.42.5044 :

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

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

Firmware for the following devices are updated to 14.26.1040:

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

Firmware for the following devices are updated to 14.26.1040 :

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

Firmware for the following device is updated to 16.26.1040 :

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

New features and changes in version 14.26.1040 and 16.26.1040 :

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

New features and changes in version 16.26.1040 :

o Added support for the following features:

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

Supported Devices and Features

HPE Part Number

Mellanox Ethernet Only Adapters

PSID

779793-B21

HP Ethernet 10Gb 2-port 546SFP+ Adapter

HP\_1200111023

779799-B21

HP Ethernet 10Gb 2-port 546FLR-SFP+ Adapter

HP\_2240110004

817749-B21

HPE Ethernet 25Gb 2-port 640FLR-SFP28 Adapter

HP\_2690110034

817753-B21

HPE Ethernet 25Gb 2-port 640SFP28 Adapter

HP\_2420110034

874253-B21

HPE Ethernet 100Gb 1-port 842QSFP28 Adapter

HPE0000000014



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**Package: Online Firmware Upgrade Utility (Windows x64) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX4 and ConnectX5 devices on Windows x86\_64 platform**

Version: 1.0.0.6 (Recommended)

**Important Note!**

Known Issues in firmware 12.26.1040:

o Secure state is not updated after firmware burning due to the following behavior.

By default, mlxfwreset takes the lowest supported fwreset level. Changing to/from secure boot keeps the firmware versions the same except for when performing INI changes. As a result, the reset level 0 is set as the default value while resetting after burning.

Workaround: Set the reset level to 3 explicitly in mlxfwreset.

o Since Packet Pacing enforce max\_tc value is "1", features that require multiple TCs will not be active when this mode is available.

o Due to performance considerations, unicast loopback traffic will go through the NIC SX tables, and multicast loopback traffic will skip the NIC SX tables.

Known Issues in firmware 16.26.1040:

o Occasionally Bluescreen might occur when using mlxfwreset for Socket Direct devices on Windows.

o SX\_RDMA is not supported when Dual Port RoCE feature is enabled. Due to this behavior, packets sent on other port are be processed by the SX\_RDMA table.

Workaround: Use SX\_RDMA with Dual Port GVMI instead.

o Hardware arbitration is currently disabled in OCP3.0 cards. It will be supported on future releases for the same hardware.

o The sw\_reset option is not supported when ATS is enabled.

o When using the hairpin feature, and using VLAN strip or using the "modify esw vport context" command, the packets can have an incorrect VLAN header. Meaning, using VLAN push/pop may not work properly when using vport context VLAN.

The features that may be affected by this and not work properly are:

\* Host chaining

\* Mirroring in FDB

\* TTL modify in FDB

\* VGT+

o DC LAG can function only in case there is a single PF per port without any active VFs.

o Due to performance considerations, unicast loopback traffic will go through the NIC SX tables, and multicast loopback traffic will skip the NIC SX tables.

o Firmware asserts may occur when setting the PF\_BAR2\_SIZE value higher than the maximum supported size (maximum PF\_BAR2\_SIZE is 4 for .

Workaround: Configure within limits (NIC PF\_BAR\_SIZE <= 4).

o CWDM4 AOM cable is currently not supported.

## **Fixes**

### **Fixes submitted in version 12.26.1040:**

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

### **Fixes submitted in version 16.26.1040:**

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

## **Enhancements**

Firmware for the following devices are updated to 12.26.1040:

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

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

Firmware for the following devices are updated to 16.26.1040:

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

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

Changes and New features in firmware version 12.26.1040 and 16.26.1040:

- o Enabled the firmware by using the ICMD commands to deal with diagnostic counters similar to cmdif.

They can be called via the vsec space. The counters' values are returned only via the tracer. The ICMD Query Caps indicate support and expose the list of the supported counters.

o User Context Object (DEVX) is a containerized sandbox per user, to access PRM command securely by using General Object commands, UMEM and UCTX contexts. The allowed functionalities of this capability depend on the user permissions.

The following functionalities are still managed by the Kernel:

- \* Resource cleaning

- \* UCTX stamping

- \* Blocking the physical address and IRQ from these UCTX

o Added support for reporting the supported affiliated and unaffiliated asynchronous events to DEVX users through the command interface.

o Zero-Touch-RoCE counters are now available to the user for debuggability purposes when using the Zero-Touch-RoCE feature.

o This release contains important reliability improvements and security hardening enhancements.

Mellanox recommends upgrading your device firmware to this release to improve the device firmware security and reliability.

Changes and New features in firmware version 16.26.1040:

o Added support for the following features:

- \* Address Translation Service (ATS) support for MKEY and UMEM.

- \* Exposing the Vital Product Data (VPD) on Virtual Function (VF).

- \* Hairpin Drop Counter.

- \* Hairpin and TM RNDV QPs to work with DevX.

- \* Creating software managed steering tables in eSwitch/Forwarding Table (FDB).

Supported Devices and Features

HPE Part Number

Device Name

PSID

825110-B21

HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter

HP\_2180110032

825111-B21

HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter

HP\_2190110032

872726-B21

HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter

HPE0000000009

879482-B21

HPE InfiniBand FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter

HPE0000000022

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**Package: Online NVMe SDD Flash Component for VMware ESXi - MT001600KWHAC, MT003200KWHAD and MT006400KWHAE Drives**

Version: HPS1 (Recommended)

**Fixes**

- o Fix Increase the host PCIe completion time larger than default 50ms

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**Package: Online NVMe SSD Flash Component for Linux (x64) - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN and VK001920KWDUH Drives**

Version: HPK4 (C) (Recommended)

**Fixes**

- o Fixed timing issue to pass VMWare VSAN certification. Downgrading to any previous version of firmware is not allowed.

**Enhancements**

- o Added support for RHEL8.

---

**Package: Online NVMe SSD Flash Component for Linux (x64) - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU and MT1600KEXUV Drives**

Version: HPK4 (D) (Recommended)

**Enhancements**

- o Added support for SLES15SP1.

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**Package: Online NVMe SSD Flash Component for Linux (x64) - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives**

Version: HPK1 (D) (Critical)

**Fixes**

- o This firmware corrects the potential for a drive to become disabled and nonfunctional during certain conditions or workloads. After the drive is upgraded to firmware version HPK1, it cannot be downgraded to firmware version HPK0.

**Enhancements**

- o Added support for SLES15SP1

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**Package: Online NVMe SSD Flash Component for Linux (x64) - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR, and MS000800KWDUT Drives**

Version: HPK4 (C) (Recommended)

**Fixes**

- o Fixed timing issue to pass VMWare VSAN certification. Downgrading to any previous version of firmware is not allowed.

### **Enhancements**

- o Added support for RHEL8.

---

### **Package: Online NVMe SSD Flash Component for Linux (x64) - ET000750KWJTF, EO000750KWTXC and EO000375KWJUC Drives**

Version: HPK2 (D) (Critical)

### **Fixes**

- o Resolves an issue where the drive may fail to be recognized after a warm reboot.
- o Corrects a potential data integrity issue during unaligned data transfers.

### **o Fixes an issue where the drive may become disabled during improper access of error registers.**

- o Once HPK2 is downloaded, the drive cannot be changed back to HPK0 firmware.

### **Enhancements**

- o Added support for SLES15SP1.

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### **Package: Online NVMe SSD Flash Component for Linux (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB and LT2000KEXVC Drives**

Version: HPK4 (D) (Recommended)

### **Enhancements**

- o Added support for SLES15SP1.

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### **Package: Online NVMe SSD Flash Component for Linux (x64) - MT001600KWHAC, MT003200KWHAD and MT006400KWHAE Drives**

Version: HPS1 (C) (Recommended)

### **Enhancements**

- o Added support for SLES15SP1.

---

### **Package: Online NVMe SSD Flash Component for Linux (x64) - VO0400KEFJB, VO1200KEFJC and VO2000KEFJD Drives**

Version: HPK4 (D) (Recommended)

### **Enhancements**

- o Added support for SLES12SP1

---

### **Package: Online NVMe SSD Flash Component for VMware ESXi - ET000750KWJTF, EO000750KWTXC and EO000375KWJUC Drives**

Version: HPK2 (Critical)

### **Fixes**

- o Resolves an issue where the drive may fail to be recognized after a warm reboot.

o Corrects a potential data integrity issue during unaligned data transfers.

**o Fixes an issue where the drive may become disabled during improper access of error registers.**

o Once HPK2 is downloaded, the drive cannot be changed back to HPK0 firmware.

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**Package: Online NVMe SSD Flash Component for VMware ESXi - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN, and VK001920KWDUH Drives**

Version: HPK4 (Recommended)

**Fixes**

o Fixed timing issue to pass VMWare VSAN certification. Downgrading to any previous version of firmware is not allowed.

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**Package: Online NVMe SSD Flash Component for VMware ESXi - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU, and MT1600KEXUV Drives**

Version: HPK4 (Recommended)

**Fixes**

**o Fixes a potential latency issue caused by an incorrect pre-fetch algorithm.**

o Resolves an issue with a possible bus hang during a system reboot.

o Once HPK4 is downloaded, the drive firmware cannot be changed back to an earlier firmware version (eg, HPK3 or HPK2) due to security changes.

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**Package: Online NVMe SSD Flash Component for VMware ESXi - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives**

Version: HPK1 (Critical)

**Fixes**

o This firmware corrects the potential for a drive to become disabled and nonfunctional during certain conditions or workloads.

o After the drive is upgraded to firmware version HPK1, it cannot be downgraded to firmware version HPK0.

---

**Package: Online NVMe SSD Flash Component for VMware ESXi - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR, and MS000800KWDUT Drives**

Version: HPK4 (Recommended)

**Fixes**

o Fixed timing issue to pass VMWare VSAN certification. Downgrading to any previous version of firmware is not allowed.

---

**Package: Online NVMe SSD Flash Component for VMware ESXi - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives**

Version: HPK4 (Recommended)

**Fixes**

**o Fixes a potential latency issue caused by an incorrect pre-fetch algorithm.**

- o Resolves an issue with a possible bus hang during a system reboot.
- o Once HPK4 is downloaded, the drive firmware cannot be changed back to an earlier firmware version (eg, HPK3 or HPK2) due to security changes.

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**Package: Online NVMe SSD Flash Component for VMware ESXi - VO0400KEFJB, VO1200KEFJC, and VO2000KEFJD Drives**

Version: HPK4 (Recommended)

**Fixes**

**o Fixes a potential latency issue caused by an incorrect pre-fetch algorithm.**

- o Resolves an issue with a possible bus hang during a system reboot.
- o Once HPK4 is downloaded, the drive firmware cannot be changed back to an earlier firmware version (eg, HPK3 or HPK2) due to security changes

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**Package: Online NVMe SSD Flash Component for Windows (x64) - ET000750KWJTF, EO000750KWTXC and EO000375KWJUC Drives**

Version: HPK2 (Critical)

**Fixes**

- o Resolves an issue where the drive may fail to be recognized after a warm reboot.
- o Corrects a potential data integrity issue during unaligned data transfers.

**o Fixes an issue where the drive may become disabled during improper access of error registers.**

- o Once HPK2 is downloaded, the drive cannot be changed back to HPK0 firmware.

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**Package: Online NVMe SSD Flash Component for Windows (x64) - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN, and VK001920KWDUH Drives**

Version: HPK4 (Recommended)

**Fixes**

- o Fixed timing issue to pass VMWare VSAN certification. Downgrading to any previous version of firmware is not allowed.

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**Package: Online NVMe SSD Flash Component for Windows (x64) - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU, and MT1600KEXUV Drives**

Version: HPK4 (Recommended)

## Fixes

### **o Fixes a potential latency issue caused by an incorrect pre-fetch algorithm.**

- o Resolves an issue with a possible bus hang during a system reboot.
- o Once HPK4 is downloaded, the drive firmware cannot be changed back to an earlier firmware version (eg, HPK3 or HPK2) due to security changes.

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### **Package: Online NVMe SSD Flash Component for Windows (x64) - MT001600KWHAC, MT003200KWHAD and MT006400KWHAE Drives**

Version: HPS1 (Recommended)

## Fixes

- o Fix Increase the host PCIe completion time larger than default 50mS.

---

### **Package: Online NVMe SSD Flash Component for Windows (x64) - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives**

Version: HPK1 (Recommended)

## Fixes

- o This firmware corrects the potential for a drive to become disabled and nonfunctional during certain conditions or workloads.
- o After the drive is upgraded to firmware version HPK1, it cannot be downgraded to firmware version HPK0.

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### **Package: Online NVMe SSD Flash Component for Windows (x64) - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR, and MS000800KWDUT Drives**

Version: HPK4 (Recommended)

## Fixes

- o Fixed timing issue to pass VMWare VSAN certification. Downgrading to any previous version of firmware is not allowed.

---

### **Package: Online NVMe SSD Flash Component for Windows (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives**

Version: HPK4 (Recommended)

## Fixes

### **o Fixes a potential latency issue caused by an incorrect pre-fetch algorithm.**

- o Resolves an issue with a possible bus hang during a system reboot.
- o Once HPK4 is downloaded, the drive firmware cannot be changed back to an earlier firmware version (eg, HPK3 or HPK2) due to security changes.



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**Package: Online NVMe SSD Flash Component for Windows (x64) - VO0400KEFJB, VO1200KEFJC, and VO2000KEFJD Drives**

Version: HPK4 (Recommended)

**Fixes**

**o Fixes a potential latency issue caused by an incorrect pre-fetch algorithm.**

- o Resolves an issue with a possible bus hang during a system reboot.
- o Once HPK4 is downloaded, the drive firmware cannot be changed back to an earlier firmware version (eg, HPK3 or HPK2) due to security changes.

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

Version: 1.0.7 (Optional)

**Enhancements**

Version 1.0.7 firmware

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**Package: 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: 1.0.7 (Optional)

**Enhancements**

Version 1.0.7 firmware

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**Package: ROM Flash Firmware Package - Advanced Power Capping Microcontroller Firmware for HPE Gen10 Servers**

Version: 1.0.7 (Optional)

**Important Note!**

Important Notes:

None

Deliverable Name:

Advanced Power Capping Microcontroller Firmware for HPE Gen10 Servers

Release Version:

1.0.7

Last Recommended or Critical Revision:

1.0.4

Previous Revision:

1.0.4

Firmware Dependencies:

None

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

Added support for AMD EPYC 7002 Generation Processors. ROM version 2.00 or later is required to enable the support. This version of firmware does not include any changes for platforms with Intel Processors or AMD EPYC 7001 Generation Processors.

Problems Fixed:

None

Known Issues:

None

### **Enhancements**

Important Notes:

None

Firmware Dependencies:

None

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

Added support for AMD EPYC 7002 Generation Processors. ROM version 2.00 or later is required to enable the support. This version of firmware does not include any changes for platforms with Intel Processors or AMD EPYC 7001 Generation Processors.

Known Issues:

None

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - EG000300JWBHR Drives**

Version: HPD4 (C) (Recommended)

#### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

#### **Enhancements**

- o Added support for RHEL8.

---

### **Package: Online HDD/SDD Flash Component for Linux (x64) - EG000300JWFVB Drives**

Version: HPD2 (D) (Optional)

#### **Important Note!**

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

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for RHEL8.

---

### **Package: Online HDD/SDD Flash Component for Linux (x64) - EG000600JWEBH and EG000300JWEBF Drives**

Version: HPD4 (C) (Recommended)

### **Important Note!**

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

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

### **Enhancements**

o Added support for RHEL 8

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - EG000600JWFUV and EG001200JWFVA Drives**

Version: HPD3 (D) (Optional)

### **Important Note!**

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

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - EG000600JWJNP and EG001200JWJNQ Drives**

Version: HPD2 (C) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

---

### **Package: Online HDD/SDD Flash Component for Linux (x64) - EG0600JETKA, EG0900JETKB, and EG1200JETKC Drives**

Version: HPD7 (C) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives**

Version: HPD2 (C) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

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**Package: Online HDD/SDD Flash Component for Linux (x64) - MB002000JWFVN and MB004000JWFVP Drives**

Version: HPD2 (C) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for RHEL8.

---

**Package: Online HDD/SDD Flash Component for Linux (x64) - MB004000JWFVK and MB006000JWFVL Drives**

Version: HPD2 (C) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for RHEL8.

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**Package: Online HDD/SDD Flash Component for Linux (x64) - MB6000JVYZD and MB4000JVYZC Drives**

Version: HPD4 (C) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

- o Added support for RHEL8.

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## **Package: Online HDD/SDD Flash Component for Linux (x64) - MM1000JEFRB and MM2000JEFRC Drives**

Version: HPD8 (D) (Optional)

## **Important Note!**

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

## **Enhancements**

- o Added support for RHEL8.

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## **Package: Online HDD/SDD Flash Component for Linux (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives**

Version: HPD1 (C) (Optional)

## **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc...

## **Enhancements**

- o Added support for RHEL8.

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## **Package: Online HDD/SDD Flash Component for Linux (x64) - VO000960JWTBK, VO001920JWTL, VO003840JWTLN, VO007680JWTLBP, MO000400JWTLBQ, MO000800JWTLBR, MO001600JWTLBT, MO003200JWTLBU, MO006400JWTLCD, EO000400JWTLBV, EO000800JWTLCA, EO001600JWTLCB Drives**

Version: HPD7 (D) (Recommended)

## **Important Note!**

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

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc...

### **Enhancements**

o Added support for RHEL8

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - EG000300JWSJP, EG000600JWJNH and EG001200JWJNK Drive**

Version: HPD2 (B) (Recommended)

### **Important Note!**

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

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - EG001800JWFVC Drives**

Version: HPD3 (D) (Recommended)

### **Important Note!**

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

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - EG001800JWJNL and EG002400JWJNN Drive**

Version: HPD2 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - EG0300FCSPH, EG0450FCSPK, EG0600FC SPL, and EG0900FCSPN Drives**

Version: HPD2 (E) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB, and EG1200JEHMC Drives**

Version: HPD5 (F) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..



## **Enhancements**

- o Added support for RHEL8.

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## **Package: Online HDD/SDD Flash Component for Linux (x64) - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB, and EG1200JEMDA Drives**

Version: HPD6 (F) (Recommended)

## **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

- o Added support for RHEL8.

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## **Package: Online HDD/SDD Flash Component for Linux (x64) - EG1800JEHMD Drive**

Version: HPD6 (F) (Recommended)

## **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

- o Added support for RHEL8.

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## **Package: Online HDD/SDD Flash Component for Linux (x64) - EG1800JEMDB Drives**

Version: HPD5 (E) (Recommended)

## **Important Note!**

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

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - EG1800JFHMH Drives**

Version: HPD7 (D) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - EH000300JWCPK, EH000600JWCPL, and EH000900JWCPN Drives**

Version: HPD5 (C) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

---

### **Package: Online HDD/SDD Flash Component for Linux (x64) - EH000600JWCPF and EH000900JWCPH Drives**

Version: HPD7 (C) (Recommended)

### **Important Note!**

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

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for RHEL8.

---

### **Package: Online HDD/SDD Flash Component for Linux (x64) - EH000900JWHPK and EH000600JWHPH Drives**

Version: HPD3 (C) (Recommended)

### **Important Note!**

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

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - EH000900JWHPP, EH000600JWHPN and EH000300JWHPL Drives**

Version: HPD3 (C) (Recommended)

### **Important Note!**

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

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - EH0300JDXBA, EH0450JDXBB, and EH0600JDXBC Drives**

Version: HPD5 (E) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

---

### **Package: Online HDD/SDD Flash Component for Linux (x64) - EH0300JDYTH, EH0450JDYTK, and EH0600JDYTL**

#### **Drives**

Version: HPD6 (F) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

---

### **Package: Online HDD/SDD Flash Component for Linux (x64) - EH0300JEDHC, EH0450JEDHD and EH0600JEDHE**

#### **Drives**

Version: HPD4 (F) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

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**Package: Online HDD/SDD Flash Component for Linux (x64) - EH0600JDYTN Drive**

Version: HPD7 (E) (Critical)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Fixes**

**o Fixes a data integrity risk where stale data is mistakenly used from cache.**

**o Fixes a data integrity risk where stale data is returned on an unaligned overlapped write-read operation.**

**o Fixes a data integrity risk during a sequential read and write workload when a recovered error is encountered, which could cause incomplete data to be read.**

**Enhancements**

- o Added support for RHEL8.

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**Package: Online HDD/SDD Flash Component for Linux (x64) - MB004000JWKGU Drive**

Version: HPD1 (B) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for RHEL8.

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**Package: Online HDD/SDD Flash Component for Linux (x64) - MB006000JWKGN Drive**

Version: HPD1 (B) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM)

mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

- o 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.

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - MB008000JWJRQ and MB006000JWJRP Drives**

Version: HPD4 (C) (Recommended)

### **Important Note!**

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

- o 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.

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc...

### **Enhancements**

- o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - MB008000JWRD Drive**

Version: HPD1 (B) (Recommended)

### **Important Note!**

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

- o 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.

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

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**Package: Online HDD/SDD Flash Component for Linux (x64) - MB010000JWAYK and MB008000JWAYH Drives**

Version: HPD5 (D) (Critical)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Fixes**

- o This code corrects a potential data integrity issue related to unaligned write commands. This issue was only found in supplier ongoing lab testing.

**Enhancements**

- o Added support for RHEL8.

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**Package: Online HDD/SDD Flash Component for Linux (x64) - MB012000JWDFD Drives**

Version: HPD2 (D) (Critical)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Fixes**

- o Corrects a potential data integrity issue during unaligned write commands, only found in supplier ongoing lab testing. Includes additional fixes to improve error handling and reliability.

**Enhancements**

- o Added support for RHEL8.

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**Package: Online HDD/SDD Flash Component for Linux (x64) - MB014000JWRTH, MB012000JWRTE and MB010000JWRTE Drives**

Version: HPD2 (C) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM)

mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

- o 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.

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - MB014000JWUDB Drive**

Version: HPD2 (B) (Recommended)

### **Important Note!**

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

- o 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.

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives**

Version: HPD3 (C) (Recommended)

### **Important Note!**

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

- o 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.

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.



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**Package: Online HDD/SDD Flash Component for Linux (x64) - MB2000JFDSL and MB4000JFDSN Drives**

Version: HPD4 (E) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for RHEL8.

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**Package: Online HDD/SDD Flash Component for Linux (x64) - MB2000JFEML and MB4000JFEMN Drives**

Version: HPD6 (E) (Critical)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Fixes**

- o Corrects a potential data integrity issue caused by an in process write retry incorrectly starting at the wrong location. This issue was found during supplier ongoing reliability testing.
- o The firmware also includes emergency power off improvements.

**Enhancements**

- o Added support for RHEL8.

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**Package: Online HDD/SDD Flash Component for Linux (x64) - MB2000JFEPA and MB4000JFEPB Drives**

Version: HPD5 (E) (Recommended)

**Important Note!**

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

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - MB4000JEFNC and MB6000JEFND Drives**

Version: HPD9 (E) (Recommended)

### **Important Note!**

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

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - MB4000JEQNL and MB6000JEQNN Drives**

Version: HPDB (E) (Recommended)

### **Important Note!**

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

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - MB4000JEXYA and MB6000JEXYB Drives**

Version: HPD9 (C) (Recommended)

### **Important Note!**

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

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for SLES15.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - MB6000JEQUV and MB8000JEQVA Drives**

Version: HPDB (E) (Recommended)

### **Important Note!**

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

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - MB6000JVYYV Drives**

Version: HPD2 (E) (Recommended)

### **Important Note!**

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

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - MB8000JFECQ Drives**

Version: HPD7 (D) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - MM1000JFJTH Drives**

Version: HPD3 (D) (Optional)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVW Drives**

Version: HPD5 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

- o Added support for RHEL8.

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## **Package: Online HDD/SDD Flash Component for Linux (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEPFD, EO0400JEFPE, and EO0800JEFPF Drives**

Version: HPD3 (E) (Recommended)

## **Important Note!**

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

## **Enhancements**

- o Added support for RHEL8.

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## **Package: Online HDD/SDD Flash Component for Linux (x64) - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK, and MO3200JFFCL Drives**

Version: HPD8 (Critical)

## **Important Note!**

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

- o The issue affects SSDs with an HPE firmware version prior to HPD8 that results in SSD failure at 32,768 hours of operation (i.e., 3 years, 270 days 8 hours), neither the SSD nor the data can be recovered, after the SSD failure occurs.
- o In addition, SSDs which were put into service at the same time will likely fail nearly simultaneously.
- o For more information, refer to HPE Customer Advisory at the following URL:  
[https://support.hpe.com/hpsc/doc/public/display docId=emr\\_na-a00092491en\\_us](https://support.hpe.com/hpsc/doc/public/display docId=emr_na-a00092491en_us)

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## **Package: Online HDD/SDD Flash Component for Linux (x64) - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV, and VO3840JFDHA Drives**

Version: HPD8 (Critical)

## **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM)

mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

- o 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**

- o The issue affects SSDs with an HPE firmware version prior to HPD8 that results in SSD failure at 32,768 hours of operation (i.e., 3 years, 270 days 8 hours), neither the SSD nor the data can be recovered, after the SSD failure occurs.
- o In addition, SSDs which were put into service at the same time will likely fail nearly simultaneously.
- o For more information, refer to HPE Customer Advisory at the following URL:  
[https://support.hpe.com/hpsc/doc/public/display docId=emr\\_na-a00092491en\\_us](https://support.hpe.com/hpsc/doc/public/display docId=emr_na-a00092491en_us)

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - VO1920JEUQQ Drives**

Version: HPD3 (E) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

---

### **Package: Online HDD/SDD Flash Component for VMware ESXi - EG000300JWBHR Drives**

Version: HPD4 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

Added support for VMware 6.7 U2.

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## **Package: Online HDD/SDD Flash Component for VMware ESXi - EG000300JWFVB Drives**

Version: HPD2 (D) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

Added support for VMware 6.7 U2.

---

## **Package: Online HDD/SDD Flash Component for VMware ESXi - EG000600JWEBH and EG000300JWEBF Drives**

Version: HPD4 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

Added support for VMware 6.7 U2.

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## **Package: Online HDD/SDD Flash Component for VMware ESXi - EG000600JWFUV and EG001200JWFVA Drives**

Version: HPD3 (D) (Optional)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM)

mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

- o In AHCI configuration only offline flashing is supported.

- o 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.

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for VMware 6.7 U2.

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### **Package: Online HDD/SDD Flash Component for VMware ESXi - EG000600JWJNP and EG001200JWJNQ Drives**

Version: HPD2 (B) (Recommended)

### **Important Note!**

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

- o In AHCI configuration only offline flashing is supported.

- o 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.

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for VMware 6.7 U2.

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### **Package: Online HDD/SDD Flash Component for VMware ESXi - EG001800JWJNR and EG002400JWJNT Drives**

Version: HPD4 (B) (Recommended)

### **Important Note!**

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

- o In AHCI configuration only offline flashing is supported.

- o 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.

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..



## **Enhancements**

- o Added support for VMware 6.7 U2.

---

## **Package: Online HDD/SDD Flash Component for VMware ESXi - EG0600JETKA, EG0900JETKB, and EG1200JETKC Drives**

Version: HPD7 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

- o Added support for VMware 6.7 U2.

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## **Package: Online HDD/SDD Flash Component for VMware ESXi - EH000900JWHPK and EH000600JWHPH Drives**

Version: HPD3 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

- o Added support for VMware 6.7 U2.

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## **Package: Online HDD/SDD Flash Component for VMware ESXi - EH000900JWHPK, EH000600JWHPN and EH000300JWHPL Drives**

Version: HPD3 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for VMware 6.7 U2.

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### **Package: Online HDD/SDD Flash Component for VMware ESXi - EH0600JDYTN Drive**

Version: HPD7 (D) (Critical)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Fixes**

**o Fixes a data integrity risk where stale data is mistakenly used from cache.**

**o Fixes a data integrity risk where stale data is returned on an unaligned overlapped write-read operation.**

**o Fixes a data integrity risk during a sequential read and write workload when a recovered error is encountered, which could cause incomplete data to be read.**

### **Enhancements**

- o Added support for VMware 6.7 U2.

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### **Package: Online HDD/SDD Flash Component for VMware ESXi - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives**

Version: HPD2 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for VMware 6.7 U2.

---

### **Package: Online HDD/SDD Flash Component for VMware ESXi - MB002000JWFVN and MB004000JWFVP**

#### **Drives**

Version: HPD2 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for VMware 6.7 U2.

---

### **Package: Online HDD/SDD Flash Component for VMware ESXi - MB004000JWFVK and MB006000JWFVL**

#### **Drives**

Version: HPD2 (B) (Recommended)

### **Important Note!**

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

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for VMware 6.7 U2.

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### **Package: Online HDD/SDD Flash Component for VMware ESXi - MB012000JWDFD Drives**

Version: HPD2 (C) (Critical)

### **Important Note!**

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

o In AHCI configuration only offline flashing is supported.

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Fixes**

o Corrects a potential data integrity issue during unaligned write commands, found in supplier ongoing lab testing. Includes additional fixes to improve error handling and reliability.

### **Enhancements**

o Added support for VMware 6.7 U2.

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### **Package: Online HDD/SDD Flash Component for VMware ESXi - MB2000JFEML and MB4000JFEMN Drives**

Version: HPD6 (E) (Critical)

### **Important Note!**

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

o In AHCI configuration only offline flashing is supported.

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Fixes**

- o Corrects a potential data integrity issue caused by an in process write retry incorrectly starting at the wrong location. This issue was found during supplier ongoing reliability testing.
- o The firmware also includes emergency power off improvements.

## **Enhancements**

Added support for VMware 6.7 U2.

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## **Package: Online HDD/SDD Flash Component for VMware ESXi - MB4000JEQNL and MB6000JEQNN Drives**

Version: HPDB (E) (Recommended)

## **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

o Added support for ESXi 6.7 U2.

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## **Package: Online HDD/SDD Flash Component for VMware ESXi - MB6000JEQUV and MB8000JEQVA Drives**

Version: HPDB (E) (Recommended)

## **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

Added support for VMware 6.7 U2.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - MB6000JVYZD and MB4000JVYZC Drives**

Version: HPD4 (B) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for VMware 6.7 U2.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - MM1000JEFRB and MM2000JEFRC Drives**

Version: HPD8 (D) (Optional)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for ESXi 6.7 U2.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - MM1000JFJTH Drives**

Version: HPD3 (D) (Optional)

**Important Note!**

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

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for VMware 6.7 U2.

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### **Package: Online HDD/SDD Flash Component for VMware ESXi - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives**

Version: HPD1 (B) (Optional)

### **Important Note!**

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

o In AHCI configuration only offline flashing is supported.

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for VMware 6.7 U2.

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### **Package: Online HDD/SDD Flash Component for VMware ESXi - VO000960JWTBK, VO001920JWTBL, VO003840JWTBN, VO007680JWTBP, MO000400JWTBQ, MO000800JWTBR, MO001600JWTBT, MO003200JWTBU, MO006400JWTCB, EO000400JWTCV, EO000800JWTCB, EO001600JWTCB Drives**

Version: HPD7 (B) (Recommended)

### **Important Note!**

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

o In AHCI configuration only offline flashing is supported.

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Fixes**

- o Improved performance during a raid 5 drive rebuild.

## **Enhancements**

- o Added support for VMware 6.7 U2.

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### **Package: Online HDD/SDD Flash Component for VMware ESXi - EG000300JWSJP, EG000600JWJNH and EG001200JWJNK Drive**

Version: HPD2 (B) (Recommended)

## **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

- o Added support for VMware 6.7 U3.

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### **Package: Online HDD/SDD Flash Component for VMware ESXi - EG001800JWFVC Drives**

Version: HPD3 (B) (Recommended)

## **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

- o Added support for VMware 6.7 U2.

---

### **Package: Online HDD/SDD Flash Component for VMware ESXi - EG001800JWJNL and EG002400JWJNN Drive**

Version: HPD2 (B) (Recommended)



### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for VMware 6.7 U3.

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### **Package: Online HDD/SDD Flash Component for VMware ESXi - EG0300FCSPH, EG0450FCSPK, EG0600FCSPH, and EG0900FCSPN Drives**

Version: HPD2 (E) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

Added support for VMware 6.7 U2.

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### **Package: Online HDD/SDD Flash Component for VMware ESXi - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB, and EG1200JEHMC Drives**

Version: HPD5 (F) (Recommended)

### **Important Note!**

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

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

Added support for VMware 6.7 U2.

---

### **Package: Online HDD/SDD Flash Component for VMware ESXi - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB, and EG1200JEMDA Drives**

Version: HPD6 (E) (Recommended)

### **Important Note!**

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

o In AHCI configuration only offline flashing is supported.

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for ESXi 6.7 U2.

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### **Package: Online HDD/SDD Flash Component for VMware ESXi - EG1800JEHMD Drive**

Version: HPD6 (F) (Recommended)

### **Important Note!**

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

o In AHCI configuration only offline flashing is supported.

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

Added support for VMware 6.7 U2.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - EG1800JEMDB Drives**

Version: HPD5 (E) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

Added support for VMware 6.7 U2.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - EG1800JFHMH Drives**

Version: HPD7 (D) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

Added support for VMware 6.7 U2.

---

**Package: Online HDD/SDD Flash Component for VMware ESXi - EH000300JWCPK, EH000600JWCPL, and EH000900JWCPN Drives**

Version: HPD5 (B) (Recommended)

**Important Note!**

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

- o 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.

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

#### **Enhancements**

- o Added support for VMware 6.7 U2.

---

#### **Package: Online HDD/SDD Flash Component for VMware ESXi - EH000600JWCPF and EH000900JWCPH Drives**

Version: HPD7 (B) (Recommended)

#### **Important Note!**

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

- o In AHCI configuration only offline flashing is supported.

- o 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.

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

#### **Enhancements**

- o Added support for VMware 6.7 U2.

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#### **Package: Online HDD/SDD Flash Component for VMware ESXi - EH0300JDXBA, EH0450JDXBB, and EH0600JDXBC Drives**

Version: HPD5 (E) (Recommended)

#### **Important Note!**

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

- o In AHCI configuration only offline flashing is supported.

- o 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.

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

#### **Enhancements**

- o Added support for ESXi 6.7 U2.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - EH0300JDYTH, EH0450JDYTK, and EH0600JDYTL Drives**

Version: HPD6 (F) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

Added support for VMware 6.7 U2.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - EH0300JEDHC, EH0450JEDHD, and EH0600JEDHE Drives**

Version: HPD4 (F) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.,

**Enhancements**

o Added support for ESXi 6.7 U2.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - MB004000JWKGU Drive**

Version: HPD1 (B) (Recommended)

**Important Note!**

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

- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for VMware 6.7 U3.

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### **Package: Online HDD/SDD Flash Component for VMware ESXi - MB006000JWKGN Drive**

Version: HPD1 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for VMware 6.7 U3.

---

### **Package: Online HDD/SDD Flash Component for VMware ESXi - MB008000JWJRQ and MB006000JWJRP Drives**

Version: HPD4 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

- o Added support for VMware 6.7 U2.

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## **Package: Online HDD/SDD Flash Component for VMware ESXi - MB008000JWRD Drive**

Version: HPD1 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

- o Added support for VMware 6.7 U3.

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## **Package: Online HDD/SDD Flash Component for VMware ESXi - MB010000JWAYK and MB008000JWAYH Drives**

Version: HPD5 (C) (Critical)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Fixes**

- o This code corrects a potential data integrity issue related to unaligned write commands. This issue was only found in supplier ongoing lab testing.

## **Enhancements**

- o Added support for VMware 6.7 U2.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - MB014000JWUDB Drive**

Version: HPD2 (B) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for VMware 6.7 U3.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives**

Version: HPD3 (B) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for VMware 6.7 U2.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - MB2000JFDSL and MB4000JFDSN Drives**

Version: HPD4 (E) (Recommended)

**Important Note!**

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



o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for VMware 6.7 U2.

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### **Package: Online HDD/SDD Flash Component for VMware ESXi - MB2000JFEPA and MB4000JFEPB Drives**

Version: HPD5 (E) (Recommended)

### **Important Note!**

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

o In AHCI configuration only offline flashing is supported.

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

Added support for VMware 6.7 U2.

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### **Package: Online HDD/SDD Flash Component for VMware ESXi - MB4000JEFNC and MB6000JEFND Drives**

Version: HPD9 (E) (Recommended)

### **Important Note!**

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

o In AHCI configuration only offline flashing is supported.

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for ESXi 6.7 U2.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - MB4000JEXYA and MB6000JEXYB Drives**

Version: HPD9 (B) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

Added support for VMware 6.7 U2.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - MB6000JVYYV Drives**

Version: HPD2 (E) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

Added support for VMware 6.7 U2.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - MB8000JFECQ Drives**

Version: HPD7 (D) (Recommended)

**Important Note!**

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

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for VMware 6.7 U2.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVW**

### **Drives**

Version: HPD5 (B) (Recommended)

### **Important Note!**

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

o In AHCI configuration only offline flashing is supported.

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for VMware 6.7 U3.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE, and EO0800JEFPF**

Version: HPD3 (E) (Recommended)

### **Important Note!**

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

o In AHCI configuration only offline flashing is supported.

o 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

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..,

## **Enhancements**

- o Added support for ESXI 6.7 U2.

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## **Package: Online HDD/SDD Flash Component for VMware ESXi - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK, and MO3200JFFCL Drives**

Version: HPD8 (Critical)

### **Important Note!**

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

- o The issue affects SSDs with an HPE firmware version prior to HPD8 that results in SSD failure at 32,768 hours of operation (i.e., 3 years, 270 days 8 hours), neither the SSD nor the data can be recovered, after the SSD failure occurs.
- o In addition, SSDs which were put into service at the same time will likely fail nearly simultaneously.
- o For more information, refer to HPE Customer Advisory at the following URL:  
[https://support.hpe.com/hpsc/doc/public/display docId=emr\\_na-a00092491en\\_us](https://support.hpe.com/hpsc/doc/public/display docId=emr_na-a00092491en_us)

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## **Package: Online HDD/SDD Flash Component for VMware ESXi - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV, and VO3840JFDHA Drives**

Version: HPD8 (Critical)

### **Important Note!**

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

- o The issue affects SSDs with an HPE firmware version prior to HPD8 that results in SSD failure at 32,768 hours of operation (i.e., 3 years, 270 days 8 hours), neither the SSD nor the data can be recovered, after the SSD failure occurs.
- o In addition, SSDs which were put into service at the same time will likely fail nearly simultaneously.

o For more information, refer to HPE Customer Advisory at the following URL:  
[https://support.hpe.com/hpsc/doc/public/display docId=emr\\_na-a00092491en\\_us](https://support.hpe.com/hpsc/doc/public/display docId=emr_na-a00092491en_us)

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**Package: Online HDD/SDD Flash Component for VMware ESXi - VO1920JEUQQ Drives**

Version: HPD3 (E) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

Added support for VMware 6.7 U2.

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**Package: Online HDD/SDD Flash Component for VMware ESXi -MB014000JWRTH, MB012000JWRTF and MB010000JWRTE Drives**

Version: HPD2 (B) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

o Added support for VMware 6.7 U3.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - EG000300JWBHR Drives**

Version: HPD4 (B) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM)

- mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
  - o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - EG000300JWFVB Drives**

Version: HPD2 (C) (Optional)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - EG000300JWSJP, EG000600JWJNH and EG001200JWJNK Drive**

Version: HPD2 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - EG000600JWEBH and EG000300JWEBF**

**Drives**

Version: HPD4 (B) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for Windows Server 2019.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - EG000600JWFUV and EG001200JWFVA**

**Drives**

Version: HPD3 (C) (Optional)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for Windows Server 2019.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - EG000600JWJNP and EG001200JWJNQ**

**Drives**

Version: HPD2 (B) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

(D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - EG001800JWFVC Drives**

Version: HPD3 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - EG001800JWJNL and EG002400JWJNN Drive**

Version: HPD2 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - EG001800JWJNR and EG002400JWJNT Drives**

Version: HPD4 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM)



- mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
  - o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - EG0300FCSPH, EG0450FCSPK, EG0600FC SPL, and EG0900FCSPN Drives**

Version: HPD2 (D) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB, and EG1200JEHMC Drives**

Version: HPD5 (E) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB, and EG1200JEMDA Drives**

Version: HPD6 (D) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for Windows Server 2019.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - EG0600JETKA, EG0900JETKB, and EG1200JETKC Drives**

Version: HPD7 (B) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for Windows Server 2019.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - EG1800JEHMD Drive**

Version: HPD6 (E) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

- o Added support for Windows Server 2019.

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## **Package: Online HDD/SDD Flash Component for Windows (x64) - EG1800JEMDB Drives**

Version: HPD5 (D) (Recommended)

## **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

- o Added support for Windows Server 2019.

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## **Package: Online HDD/SDD Flash Component for Windows (x64) - EG1800JFHMH Drives**

Version: HPD7 (D) (Recommended)

## **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

- o Added support for Windows Server 2019.

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## **Package: Online HDD/SDD Flash Component for Windows (x64) - EH000300JWCPK, EH000600JWCPL, and EH000900JWCPN Drives**

Version: HPD5 (B) (Recommended)

## **Important Note!**

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

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - EH000600JWCPF and EH000900JWCPH**

#### **Drives**

Version: HPD7 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - EH000900JWHPK and EH000600JWHPH**

#### **Drives**

Version: HPD3 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - EH000900JWHPP, EH000600JWHPN and EH000300JWHPL**

#### **Drives**

Version: HPD3 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - EH0300JDXBA, EH0450JDXBB, and EH0600JDXBC Drives**

Version: HPD5 (D) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - EH0300JDYTH, EH0450JDYTK, and EH0600JDYTL Drives**

Version: HPD6 (E) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - EH0300JEDHC, EH0450JEDHD, and EH0600JEDHE Drives**

Version: HPD4 (F) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for Windows Server 2019.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - EH0600JDYTN Drive**

Version: HPD7 (C) (Critical)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Fixes**

**o Fixes a data integrity risk where stale data is mistakenly used from cache.**

**o Fixes a data integrity risk where stale data is returned on an unaligned overlapped write-read operation.**

**o Fixes a data integrity risk during a sequential read and write workload when a recovered error is encountered, which could cause incomplete data to be read.**

**Enhancements**

- o Added support for Windows Server 2019.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives**

Version: HPD2 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MB002000JWFVN and MB004000JWFVP**

#### **Drives**

Version: HPD2 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MB004000JWFVK and MB006000JWFVL**

#### **Drives**

Version: HPD2 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - MB004000JWKGU Drive**

Version: HPD1 (B) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for Windows Server 2019.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - MB006000JWKGN Drive**

Version: HPD1 (B) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for Windows Server 2019.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - MB008000JWJRQ and MB006000JWJRP Drives**

Version: HPD4 (B) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C)



(D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MB008000JWRD Drive**

Version: HPD1 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MB010000JWAYK and MB008000JWAYH Drives**

Version: HPD5 (C) (Critical)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Fixes**

- o This code corrects a potential data integrity issue related to unaligned write commands. This issue was only found in supplier ongoing lab testing.

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MB012000JWDFD Drives**

Version: HPD2 (C) (Critical)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Fixes**

- o Corrects a potential data integrity issue during unaligned write commands, found in supplier ongoing lab testing. Includes additional fixes to improve error handling and reliability.

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MB014000JWRTH, MB012000JWRTF and MB010000JWRTE Drives**

Version: HPD2 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MB014000JWUDB Drive**

Version: HPD2 (B) (Recommended)

### **Important Note!**

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

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives**

Version: HPD3 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MB2000JFDSL and MB4000JFDSN Drives**

Version: HPD4 (D) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MB2000JFEML and MB4000JFEMN Drives**

Version: HPD6 (D) (Critical)

### **Important Note!**

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

- o 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.

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

#### **Fixes**

- o Corrects a potential data integrity issue caused by an in process write retry incorrectly starting at the wrong location. This issue was found during supplier ongoing reliability testing.

- o The firmware also includes emergency power off improvements.

#### **Enhancements**

- o Added support for Windows Server 2019.

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#### **Package: Online HDD/SDD Flash Component for Windows (x64) - MB2000JFEPA and MB4000JFEPB Drives**

Version: HPD5 (D) (Recommended)

#### **Important Note!**

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

- o 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.

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

#### **Enhancements**

- o Added support for Windows Server 2019.

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#### **Package: Online HDD/SDD Flash Component for Windows (x64) - MB4000JEFNC and MB6000JEFND Drives**

Version: HPD9 (D) (Recommended)

#### **Important Note!**

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

- o 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.

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

#### **Enhancements**

- o Added support for Windows Server 2019.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - MB4000JEQNL and MB6000JEQNN Drives**

Version: HPDB (D) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for Windows Server 2019.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - MB4000JEXYA and MB6000JEXYB Drives**

Version: HPD9 (B) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for Windows Server 2019.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - MB6000JEQUV and MB8000JEQVA Drives**

Version: HPDB (D) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

- o Added support for Windows Server 2019.

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## **Package: Online HDD/SDD Flash Component for Windows (x64) - MB6000JVYYV Drives**

Version: HPD2 (D) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

- o Added support for Windows Server 2019.

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## **Package: Online HDD/SDD Flash Component for Windows (x64) - MB6000JVYZD and MB4000JVYZC Drives**

Version: HPD4 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

- o Added support for Windows Server 2019.

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## **Package: Online HDD/SDD Flash Component for Windows (x64) - MB8000JFECQ Drives**

Version: HPD7 (C) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C)

(D) etc..

### **Enhancements**

o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MM1000JEFRB and MM2000JEFRC Drives**

Version: HPD8 (C) (Optional)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.,

### **Enhancements**

o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MM1000JFJTH Drives**

Version: HPD3 (C) (Optional)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

### **Enhancements**

o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MO000400JWFWN, MO000800JWFWP, MO001600JFWFQ, MO003200JWFWR, MO000960JWFWT, MO001920JFWFU and MO003840JFWV Drives**

Version: HPD5 (B) (Recommended)

### **Important Note!**

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

for these configurations.

- o 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.

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives**

Version: HPD1 (B) (Optional)

### **Important Note!**

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

- o 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.

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE, and EO0800JEFPF Drives**

Version: HPD3 (D) (Recommended)

### **Important Note!**

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

- o 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

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows 2019.



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**Package: Online HDD/SDD Flash Component for Windows (x64) - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK, and MO3200JFFCL Drives**

Version: HPD8 (Critical)

**Important Note!**

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

- o The issue affects SSDs with an HPE firmware version prior to HPD8 that results in SSD failure at 32,768 hours of operation (i.e., 3 years, 270 days 8 hours), neither the SSD nor the data can be recovered, after the SSD failure occurs.
- o In addition, SSDs which were put into service at the same time will likely fail nearly simultaneously.
- o For more information, refer to HPE Customer Advisory at the following URL:  
[https://support.hpe.com/hpsc/doc/public/display docId=emr\\_na-a00092491en\\_us](https://support.hpe.com/hpsc/doc/public/display docId=emr_na-a00092491en_us)

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**Package: Online HDD/SDD Flash Component for Windows (x64) - VO000960JWTBK, VO001920JWTBL, VO003840JWTDN, VO007680JWTDN, MO000400JWTDQ, MO000800JWTDN, MO001600JWTDN, MO003200JWTDN, MO006400JWTDN, EO000400JWTDV, EO000800JWTDV, EO001600JWTDV Drives**

Version: HPD7 (B) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Fixes**

- o Improved performance during a raid 5 drive rebuild.

**Enhancements**

- o Added support for Windows Server 2019.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV, and VO3840JFDHA Drives**

Version: HPD8 (Critical)

**Important Note!**

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

- o The issue affects SSDs with an HPE firmware version prior to HPD8 that results in SSD failure at 32,768 hours of operation (i.e., 3 years, 270 days 8 hours), neither the SSD nor the data can be recovered, after the SSD failure occurs.
- o In addition, SSDs which were put into service at the same time will likely fail nearly simultaneously.
- o For more information, refer to HPE Customer Advisory at the following URL:  
[https://support.hpe.com/hpsc/doc/public/display docId=emr\\_na-a00092491en\\_us](https://support.hpe.com/hpsc/doc/public/display docId=emr_na-a00092491en_us)

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**Package: Online HDD/SDD Flash Component for Windows (x64) - VO1920JEUQQ Drives**

Version: HPD3 (D) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for Windows Server 2019.

---

**Package: Online HDD/SSD Flash Component for Linux (x64) - EG001800JWJNR and EG002400JWJNT Drives**

Version: HPD4 (C) (Recommended)

**Important Note!**

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

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for ESXi - MB001000GWCBC and MB002000GWCBD Drives**

Version: HPG6 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Fixes**

- o This firmware includes a fix that changes the response to “SMART READ LOG” command from 04/80/80 to 05/26/00, which prevents the drive from incorrectly reporting an error.

### **Enhancements**

- o Added support for VMware 6.7 U2.

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### **Package: Online HDD/SDD Flash Component for ESXi - MB001000GWFVK and MB002000GWFVL Drives**

Version: HPG6 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Fixes**

- o This firmware includes a fix that changes the response to “SMART READ LOG” command from 04/80/80

to 05/26/00, which prevents the drive from incorrectly reporting an error.

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**Package: Online HDD/SDD Flash Component for ESXi - MB001000GWJAN, MB002000GWFWA, MB004000GWFWB Drives**

Version: HPG1 (B) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for VMware 6.7 U2.

---

**Package: Online HDD/SDD Flash Component for ESXi - MB014000GWRTN, MB012000GWRTL and MB010000GWRTK Drives**

Version: HPG2 (B) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

**Enhancements**

- o Added support for VMware 6.7 U3.

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**Package: Online HDD/SDD Flash Component for ESXi - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA, and MB4000GDUPB Drives**

Version: HPG4 (G) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for VMware 6.7 U2.

---

### **Package: Online HDD/SDD Flash Component for ESXi - MB4000GEFNA and MB6000GEFNB Drives**

Version: HPG6 (E) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for ESXi 6.7 U2.

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### **Package: Online HDD/SDD Flash Component for ESXi - MB6000GEBTP Drives**

Version: HPG4 (E) (Recommended)

### **Important Note!**

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

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for VMware 6.7 U2.

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### **Package: Online HDD/SDD Flash Component for ESXi - MB6000GEXXV Drives**

Version: HPG2 (G) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for VMware 6.7 U2.

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### **Package: Online HDD/SDD Flash Component for ESXi - MB6000GVYZB and MB4000GVYZA Drives**

Version: HPG4 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for VMware 6.7 U2.

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### **Package: Online HDD/SDD Flash Component for ESXi - MB8000GFECR Drives**

Version: HPG6 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for VMware 6.7 U2.

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### **Package: Online HDD/SDD Flash Component for ESXi - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives**

Version: HPG1 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for VMware 6.7 U2.

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### **Package: Online HDD/SDD Flash Component for ESXi - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives**

Version: HPG5 (B) (Critical)

### **Important Note!**

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

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Fixes**

#### **o Fixes a rare link loss issue and adds enhancements for drive reliability.**

o After HPG5 firmware is downloaded to the drive, the new HPG5 firmware will be active on the drive.

o The new drive bootloader code will be activated after the next drive power cycle.

o For more information, refer to HPE Customer Advisory at the following URL:

[https://support.hpe.com/hpsc/doc/public/display docId=emr\\_na-a00072768en\\_us](https://support.hpe.com/hpsc/doc/public/display docId=emr_na-a00072768en_us)

### **Enhancements**

o Added support for VMware 6.7 U2.

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#### **Package: Online HDD/SDD Flash Component for ESXi - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU, VK003840GWSRV Drives**

Version: HPG2 (B) (Recommended)

### **Important Note!**

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

o In AHCI configuration only offline flashing is supported.

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for VMware 6.7 U3.

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#### **Package: Online HDD/SDD Flash Component for ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GW TTC, VK003840GWTTD, MK000480GWTT H, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives**

Version: HPG3 (B) (Recommended)

### **Important Note!**

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



- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

#### **Fixes**

- o Corrects a potential unresponsiveness during a Secure Erase operation, and fixes an incorrect error reporting issue during certain SATA protocol transfers.

#### **Enhancements**

- o Added support for VMware 6.7 U2.

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#### **Package: Online HDD/SDD Flash Component for ESXi - VK0120GFDKE, VK0240GDFKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL, and VK3840GFDKN Drives**

Version: HPG1 (F) (Recommended)

#### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

#### **Enhancements**

Added support for VMware 6.7 U2.

---

#### **Package: Online HDD/SDD Flash Component for ESXi - VK0240GEPQN, VK0480GEPQP, and VK0960GEPQQ Drives**

Version: HPG1 (F) (Recommended)

#### **Important Note!**

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

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

Added support for VMware 6.7 U2.

---

### **Package: Online HDD/SDD Flash Component for Linux (x64) - EK000200GWEPD, EK000400GWEPE, EK000800GWEPF and EK001600GWEPH Drives**

Version: HPG3 (D) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for RHEL8.

---

### **Package: Online HDD/SDD Flash Component for Linux (x64) - MB001000GWCBC and MB002000GWCBD Drives**

Version: HPG6 (C) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for RHEL8.

---

### **Package: Online HDD/SDD Flash Component for Linux (x64) - MB001000GWFVK and MB002000GFWL Drives**

Version: HPG6 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Fixes**

- o This firmware includes a fix that changes the response to "SMART READ LOG" command from 04/80/80 to 05/26/00, which prevents the drive from incorrectly reporting an error.

### **Enhancements**

- o Added support for RHEL8.

---

### **Package: Online HDD/SDD Flash Component for Linux (x64) - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives**

Version: HPG1 (C) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc...

### **Enhancements**

- o Added support for RHEL8.

---

### **Package: Online HDD/SDD Flash Component for Linux (x64) - MB002000GWFGH and MB001000GWFGF Drives**

Version: HPG3 (E) (Optional)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C)

(D) etc..

### **Enhancements**

- o Added support for RHEL8.

---

### **Package: Online HDD/SDD Flash Component for Linux (x64) - MB004000GWKGV Drive**

Version: HPG1 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - MB006000GWBXQ and MB008000GWBYL**

#### **Drives**

Version: HPG8 (C) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc...

### **Enhancements**

- o Added support for RHEL8.

---

### **Package: Online HDD/SDD Flash Component for Linux (x64) - MB006000GWKGR Drive**

Version: HPG1 (B) (Recommended)

### **Important Note!**

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

for these configurations.

- o 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.

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

---

### **Package: Online HDD/SDD Flash Component for Linux (x64) - MB008000GWRTC Drive**

Version: HPG1 (B) (Recommended)

### **Important Note!**

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

- o 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.

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

---

### **Package: Online HDD/SDD Flash Component for Linux (x64) - MB010000GWAYN and MB008000GWAYL Drives**

Version: HPG5 (D) (Critical)

### **Important Note!**

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

- o 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.

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Fixes**

- o This code corrects a potential data integrity issue related to unaligned write commands. This issue was only found in supplier ongoing lab testing.

## **Enhancements**

- o Added support for RHEL8

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## **Package: Online HDD/SDD Flash Component for Linux (x64) - MB012000GWDFE Drives**

Version: HPG2 (D) (Critical)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Fixes**

- o Corrects a potential data integrity issue during unaligned write commands, only found in supplier ongoing lab testing. Includes additional fixes to improve error handling and reliability.

## **Enhancements**

- o Added support for RHEL8.

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## **Package: Online HDD/SDD Flash Component for Linux (x64) - MB014000GWRTN, MB012000GWRTL and MB010000GWRTK Drives**

Version: HPG2 (C) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

- o Added support for RHEL8.

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## **Package: Online HDD/SDD Flash Component for Linux (x64) - MB014000GWUDA Drive**

Version: HPG2 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

---

### **Package: Online HDD/SDD Flash Component for Linux (x64) - MB100GDUNU, MB200GDUNV, MB300GDUPA, and MB400GDUPB Drives**

Version: HPG4 (G) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - MB100GVYZE, MB200GVYZF, MB300GVYZH, and MB400GVYZK Drives**

Version: HPG4 (G) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

- o Added support for RHEL8.

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## **Package: Online HDD/SDD Flash Component for Linux (x64) - MB2000GCWLT, MB3000GCWLU, and MB4000GCWLV Drives**

Version: HPG4 (G) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

- o Added support for RHEL8.

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## **Package: Online HDD/SDD Flash Component for Linux (x64) - MB2000GFEMH and MB4000GFEMK Drives**

Version: HPG6 (F) (Critical)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Fixes**

- o Corrects a potential data integrity issue caused by an in process write retry incorrectly starting at the wrong location. This issue was found during supplier ongoing reliability testing.
- o The firmware also corrects settings preservation after a code download, and includes emergency power off improvements.

## **Enhancements**

- o Added support for RHEL8.

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## **Package: Online HDD/SDD Flash Component for Linux (x64) - MB4000GEFNA and MB6000GEFNB Drives**

Version: HPG6 (G) (Recommended)



### **Important Note!**

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

### **Enhancements**

- o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - MB4000GEQNH and MB6000GEQNK Drives**

Version: HPGB (F) (Critical)

### **Important Note!**

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

- o Corrects a potential data integrity issue caused by an in process write retry incorrectly starting at the wrong location. This issue was found during supplier ongoing reliability testing.
- o The firmware also corrects settings preservation after a code download, and includes emergency power off improvements.

### **Enhancements**

- o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - MB6000GEBTP Drives**

Version: HPG4 (F) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

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**Package: Online HDD/SDD Flash Component for Linux (x64) - MB6000GEQUT and MB8000GEQUU Drives**

Version: HPGB (F) (Critical)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Fixes**

- o Corrects a potential data integrity issue caused by an in process write retry incorrectly starting at the wrong location. This issue was only found during supplier ongoing reliability testing.

**Enhancements**

- o Added support for RHEL8.

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**Package: Online HDD/SDD Flash Component for Linux (x64) - MB6000GEXXV Drives**

Version: HPG2 (G) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for RHEL8.

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**Package: Online HDD/SDD Flash Component for Linux (x64) - MB6000GVYYU Drives**

Version: HPG2 (F) (Recommended)

**Important Note!**

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

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - MB6000GVYZB and MB4000GVYZA Drives**

Version: HPG4 (C) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - MB8000GFECR Drives**

Version: HPG6 (C) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFB Drives**

Version: HPG3 (D) (Recommended)

### **Important Note!**

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

- o 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.

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - MK003840GWHITE Drives**

Version: HPG6 (B) (Recommended)

### **Important Note!**

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

- o 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.

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - MK0960GECQK Drives**

Version: HPG3 (H) (Critical)

### **Important Note!**

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

- o 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.

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Fixes**

- o Firmware fixes intermittent data corruption issue associated with unaligned sequential write operations.

### **Enhancements**

- o Added support for RHEL8.

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**Package: Online HDD/SDD Flash Component for Linux (x64) - MM1000GEFQV and MM2000GEFRA Drives**

Version: HPG8 (E) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for RHEL8.

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**Package: Online HDD/SDD Flash Component for Linux (x64) - MM1000GFJTE Drives**

Version: HPG5 (C) (Optional)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for RHEL8.

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**Package: Online HDD/SDD Flash Component for Linux (x64) - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives**

Version: HPGE (B) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

- o Added support for RHEL8.

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## **Package: Online HDD/SDD Flash Component for Linux (x64) - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives**

Version: HPG1 (C) (Recommended)

## **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

- o Added support for RHEL8.

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## **Package: Online HDD/SDD Flash Component for Linux (x64) - VK000240GWCFD, VK000480GWCFE, VK000960GWCFF, VK001920GWCFH and VK003840GWCFK Drives.**

Version: HPG3 (D) (Recommended)

## **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

- o Added support for RHEL8.

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## **Package: Online HDD/SDD Flash Component for Linux (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives**

Version: HPGE (B) (Optional)

## **Important Note!**

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

for these configurations.

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPQ Drives**

Version: HPG5 (C) (Critical)

### **Important Note!**

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

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Fixes**

#### **o Fixes a rare link loss issue and adds enhancements for drive reliability.**

o After HPG5 firmware is downloaded to the drive, the new HPG5 firmware will be active on the drive.

o The new drive bootloader code will be activated after the next drive power cycle.

o For more information, refer to HPE Customer Advisory at the following URL:

[https://support.hpe.com/hpsc/doc/public/display docId=emr\\_na-a00072768en\\_us](https://support.hpe.com/hpsc/doc/public/display docId=emr_na-a00072768en_us)

### **Enhancements**

o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives**

Version: HPG2 (B) (Recommended)

### **Important Note!**

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

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives**

Version: HPG3 (C) (Recommended)

### **Important Note!**

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

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc...

### **Enhancements**

o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH, MK001920GWUGK Drives**

Version: HPG2 (C) (Recommended)

### **Important Note!**

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

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc...

### **Enhancements**

o Added support for RHEL8.



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**Package: Online HDD/SDD Flash Component for Linux (x64) - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD Drives**

Version: HPG1 (B) (Optional)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for RHEL8.

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**Package: Online HDD/SDD Flash Component for Linux (x64) - VK003840GWSXL Drive**

Version: HPG2 (C) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for RHEL8.

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**Package: Online HDD/SDD Flash Component for Linux (x64) - VK007680GWSXN Drive**

Version: HPG2 (C) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C)

(D) etc..

### **Enhancements**

- o Added support for RHEL8.

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**Package: Online HDD/SDD Flash Component for Linux (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYK Drives**

Version: HPG5 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

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**Package: Online HDD/SDD Flash Component for Linux (x64) - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL, and VK3840GFDKN Drives**

Version: HPG1 (G) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

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**Package: Online HDD/SDD Flash Component for Linux (x64) - VK0240GEPQN, VK0480GEPQP, and VK0960GEPQQ Drives**

Version: HPG1 (F) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - VR000150GWEPP and VR000480GWEPR Drives**

Version: HPG1 (D) (Critical)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Fixes**

#### **o Fixes an issue which caused the drive to become non-functional.**

#### **o Fixes VPD Log D0h reported drive Sanitize times.**

- o Adds support for Security Log Page BBh.

### **Enhancements**

- o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - XP0032GEFEN, XP0032GDZME, XP0064GEFEP, and XP0064GDZMF Drives**

Version: HPS8 (G) (Recommended)

### **Important Note!**

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

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Prerequisites**

Drive models XP0032GEFEN, XP0032GDZME, XP0064GDZMF, and XP0064GEFEP must have firmware version HPS5 installed prior to updating to firmware version HPS8.

### **Enhancements**

- o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for Linux (x64) - XP0120GFJSL and XP0240GFJSN Drives**

Version: HPS4 (G) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for RHEL8.

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### **Package: Online HDD/SDD Flash Component for VMware ESXi - EK000200GWEPD, EK000400GWEPE, EK000800GWEPE and EK001600GWEPEH Drives**

Version: HPG3 (C) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for VMware 6.7 U2.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - MB002000GWFGH and MB001000GWFGF****Drives**

Version: HPG3 (D) (Optional)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

Added support for VMware 6.7 U2.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - MB004000GWKGV Drive**

Version: HPG1 (B) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

o Added support for VMware 6.7 U3.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - MB006000GWBXQ and MB008000GWBYL****Drives**

Version: HPG8 (B) (Recommended)

**Important Note!**

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

- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Fixes**

- o Eliminates a potential hang on 4TB under certain pattern-dependent read conditions.
- o Eliminates the possibility of a weak read signal under a sequenced combination of read/write conditions.
- o Provides reliability enhancements involving head fly height dynamics.
- o Enables download Mode 0Eh activation by Mode 0Fh.

### **Enhancements**

- o Added support for VMware 6.7 U2.

---

### **Package: Online HDD/SDD Flash Component for VMware ESXi - MB006000GWKGR Drive**

Version: HPG1 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for VMware 6.7 U3.

---

### **Package: Online HDD/SDD Flash Component for VMware ESXi - MB008000GWRTC Drive**

Version: HPG1 (B) (Recommended)

### **Important Note!**

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

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for VMware 6.7 U3.

---

### **Package: Online HDD/SDD Flash Component for VMware ESXi - MB010000GWAYN and MB008000GWAYL**

#### **Drives**

Version: HPG5 (C) (Critical)

#### **Important Note!**

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

o In AHCI configuration only offline flashing is supported.

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

#### **Fixes**

o This code corrects a potential data integrity issue related to unaligned write commands. This issue was only found in supplier ongoing lab testing.

### **Enhancements**

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

Added support for VMware 6.7 Update1.

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### **Package: Online HDD/SDD Flash Component for VMware ESXi - MB012000GWDFE Drives**

Version: HPG2 (C) (Critical)

#### **Important Note!**

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

o In AHCI configuration only offline flashing is supported.

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C)

(D) etc..

### **Fixes**

o Corrects a potential data integrity issue during unaligned write commands, found in supplier ongoing lab testing. Includes additional fixes to improve error handling and reliability.

### **Enhancements**

o Added support for VMware 6.7 U2.

---

## **Package: Online HDD/SDD Flash Component for VMware ESXi - MB014000GWUDA Drive**

Version: HPG2 (B) (Recommended)

### **Important Note!**

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

o In AHCI configuration only offline flashing is supported.

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for VMware 6.7 U3.

---

## **Package: Online HDD/SDD Flash Component for VMware ESXi - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH, and MB4000GVYZK Drives**

Version: HPG4 (E) (Recommended)

### **Important Note!**

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

o In AHCI configuration only offline flashing is supported.

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

Added support for VMware 6.7 U2.



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**Package: Online HDD/SDD Flash Component for VMware ESXi - MB2000GCWLT, MB3000GCWLU, and MB4000GCWLV Drives**

Version: HPG4 (G) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

Added support for VMware 6.7 U2.

---

**Package: Online HDD/SDD Flash Component for VMware ESXi - MB2000GFEMH and MB4000GFEMK Drives**

Version: HPG6 (E) (Critical)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Fixes**

- o Corrects a potential data integrity issue caused by an in process write retry incorrectly starting at the wrong location. This issue was found during supplier ongoing reliability testing.
- o The firmware also corrects settings preservation after a code download, and includes emergency power off improvements.
- o Online firmware update fails when drives are connected behind AHCI controller.

**Enhancements**

Added support for VMware 6.7 U2.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - MB4000GEQNH and MB6000GEQNK Drives**

Version: HPGB (E) (Critical)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Fixes**

- o Corrects a potential data integrity issue caused by an in process write retry incorrectly starting at the wrong location. This issue was found during supplier ongoing reliability testing.
- o The firmware also corrects settings preservation after a code download, and includes emergency power off improvements.

**Enhancements**

- o Added support for ESXi 6.7 U2.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - MB6000GEQUT and MB8000GEQUU Drives**

Version: HPGB (E) (Critical)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Fixes**

- o Corrects a potential data integrity issue caused by an in process write retry incorrectly starting at the wrong location. This issue was only found during supplier ongoing reliability testing.
- o Online firmware update fails when drives are connected behind AHCI controller.

## **Enhancements**

o Added support for VMware 6.7 U2.

---

## **Package: Online HDD/SDD Flash Component for VMware ESXi - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFB Drives**

Version: HPG3 (C) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

o Added support for VMware 6.7 U2.

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## **Package: Online HDD/SDD Flash Component for VMware ESXi - MK003840GWHITE Drives**

Version: HPG6 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

o Added support for VMware 6.7 U3.

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## **Package: Online HDD/SDD Flash Component for VMware ESXi - MK0960GECQK Drives**

Version: HPG3 (H) (Critical)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM)

mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

- o In AHCI configuration only offline flashing is supported.

- o 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

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.,

### **Fixes**

- o Firmware fixes intermittent data corruption issue associated with unaligned sequential write operations.

### **Enhancements**

- o Added support for VMware 6.7 U2.

---

## **Package: Online HDD/SDD Flash Component for VMware ESXi - MM1000GEFQV and MM2000GEFRA Drives**

Version: HPG8 (D) (Recommended)

### **Important Note!**

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

- o In AHCI configuration only offline flashing is supported.

- o 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.

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for VMware 6.7 U2.

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## **Package: Online HDD/SDD Flash Component for VMware ESXi - MM1000GFJTE Drives**

Version: HPG5 (B) (Optional)

### **Important Note!**

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

- o In AHCI configuration only offline flashing is supported.

- o 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.

- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for VMware 6.7 U2.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives**

Version: HPGE (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for VMware 6.7 U3.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - VK000240GWCFD, VK000480GWCFE, VK000960GWCFE, VK001920GWCFH and VK003840GWCFK Drives.**

Version: HPG3 (C) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for VMware 6.7 U2.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives**

Version: HPGE (B) (Optional)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for VMware 6.7 U3.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH, MK001920GWUGK Drives**

Version: HPG2 (B) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc

**Fixes**

- o Fix to issue in bootloader download during power loss.
- o Change IDF Word 106 report 4K TU for 4/8TB drives to align with Microsoft SQL requirement.
- o Improvements to error exception.
- o Improvements to Secure lock fix during multi-thread read tests with high freq. power cycling.

**Enhancements**

- o Added support for VMware 6.7 U2.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD Drives**

Version: HPG1 (B) (Optional)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for VMware 6.7 U3.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - VK003840GWSXL Drive**

Version: HPG2 (B) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Fixes**

- o Fix to issue in bootloader download during power loss.
- o Change IDF Word 106 report 4K TU for 4/8TB drives to align with Microsoft SQL requirement.
- o Improvements to error exception.
- o Improvements to Secure lock fix during multi-thread read tests with high freq. power cycling.

**Enhancements**

- o Added support for VMware 6.7 U2.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - VK007680GWSXN Drive**

Version: HPG2 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Fixes**

- o Fix to issue in bootloader download during power loss.
- o Change IDF Word 106 report 4K TU for 4/8TB drives to align with Microsoft SQL requirement.
- o Improvements to error exception.
- o Improvements to Secure lock fix during multi-thread read tests with high freq. power cycling.

### **Enhancements**

- o Added support for VMware 6.7 U2.

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**Package: Online HDD/SDD Flash Component for VMware ESXi - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives**

Version: HPG5 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for VMware 6.7 U3.

---

**Package: Online HDD/SDD Flash Component for VMware ESXi - VR000150GWEPP and VR000480GWEPR Drives**

Version: HPG1 (C) (Critical)



### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Fixes**

#### **o Fixes a timing issue which can cause the drive to become non-functional.**

#### **o Fixes VPD Log D0h reported drive Sanitize times.**

- o Adds support for Security Log Page BBh.

### **Enhancements**

- o Added support for VMware 6.7 U2.

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### **Package: Online HDD/SDD Flash Component for VMware ESXi - XP0032GEFEN, XP0032GDZME, XP0064GEFEP, and XP0064GDZMF Drives**

Version: HPS8 (F) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Prerequisites**

Drive models XP0032GEFEN, XP0032GDZME, XP0064GDZMF, and XP0064GEFEP must have firmware version HPS6 installed prior to updating to firmware version HPS8.

### **Enhancements**

- o Added support for VMware 6.7 U2.

---

### **Package: Online HDD/SDD Flash Component for VMware ESXi - XP0120GFJSL and XP0240GFJSN Drives**

Version: HPS4 (F) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for VMware 6.7 U2.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - VK0080GEYJN, VK0120GEYJP, VK0240GEYJQ, VK0480GEYJR, VK0800GEYJT, VK1600GEYJU, LK0200GEYMR, LK0480GFJSK, LK0800GEYMU, LK1600GEYMV, MK0200GEYKC, MK0400GEYKD, MK0800GEYKE and MK1200GEYKF Drives**

Version: HPG5 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - XP0032GEFEN, XP0032GDZME, XP0064GEFEP, and XP0064GDZMF Drives**

Version: HPS8 (E) (Recommended)

### **Important Note!**

- o 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.
- o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Prerequisites**

Drive models XP0032GEFEN, XP0032GDZME, XP0064GDZMF, and XP0064GEFEP must have firmware version HPS6 installed prior to updating to firmware version HPS8.

### **Enhancements**

o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - EK000200GWEPD, EK000400GWEPE, EK000800GWEPE and EK001600GWEPE Drives**

Version: HPG3 (C) (Recommended)

### **Important Note!**

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

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MB001000GWCBC and MB002000GWCBD Drives**

Version: HPG6 (B) (Recommended)

### **Important Note!**

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

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Fixes**

o This firmware includes a fix that changes the response to "SMART READ LOG" command from 04/80/80 to 05/26/00, which prevents the drive from incorrectly reporting an error.

## **Enhancements**

- o Added support for Windows Server 2019.

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## **Package: Online HDD/SDD Flash Component for Windows (x64) - MB001000GFWFK and MB002000GFWFL**

### **Drives**

Version: HPG6 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Fixes**

- o This firmware includes a fix that changes the response to "SMART READ LOG" command from 04/80/80 to 05/26/00, which prevents the drive from incorrectly reporting an error.

## **Enhancements**

- o Added support for Windows Server 2019.

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## **Package: Online HDD/SDD Flash Component for Windows (x64) - MB001000GWJAN, MB002000GWFWA and MB004000GFWFB Drives**

Version: HPG1 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

- o Added support for Windows Server 2019.

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## **Package: Online HDD/SDD Flash Component for Windows (x64) - MB002000GWFGH and MB001000GWFGF**

### **Drives**

Version: HPG3 (D) (Optional)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc...

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MB004000GWKGV Drive**

Version: HPG1 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MB006000GWBXQ and MB008000GWBYL Drives**

Version: HPG8 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Fixes**

- o Eliminates a potential hang on 4TB under certain pattern-dependent read conditions

- o Eliminates the possibility of a weak read signal under a sequenced combination of read/write conditions
- o Provides reliability enhancements involving head fly height dynamics
- o Enables download Mode 0Eh activation by Mode 0Fh

#### **Enhancements**

- o Added support for Windows Server 2019.

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#### **Package: Online HDD/SDD Flash Component for Windows (x64) - MB006000GWKGR Drive**

Version: HPG1 (B) (Recommended)

#### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

#### **Enhancements**

- o Added support for Windows Server 2019.

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#### **Package: Online HDD/SDD Flash Component for Windows (x64) - MB008000GWRTC Drive**

Version: HPG1 (B) (Recommended)

#### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

#### **Enhancements**

- o Added support for Windows Server 2019.

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#### **Package: Online HDD/SDD Flash Component for Windows (x64) - MB010000GWAYN and MB008000GWAYL Drives**

Version: HPG5 (C) (Critical)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Fixes**

- o This code corrects a potential data integrity issue related to unaligned write commands. This issue was only found in supplier ongoing lab testing.

### **Enhancements**

- o Added support for Windows Server 2019.

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## **Package: Online HDD/SDD Flash Component for Windows (x64) - MB012000GWDFE Drives**

Version: HPG2 (C) (Critical)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Fixes**

- o Corrects a potential data integrity issue during unaligned write commands, found in supplier ongoing lab testing. Includes additional fixes to improve error handling and reliability.

### **Enhancements**

- o Added support for Windows Server 2019.

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## **Package: Online HDD/SDD Flash Component for Windows (x64) - MB014000GWRTN, MB012000GWRTL and MB010000GWRTK Drives**

Version: HPG2 (B) (Recommended)

### **Important Note!**

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

- o In AHCI configuration only offline flashing is supported.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MB01400GWUDA Drive**

Version: HPG2 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA, and MB4000GDUPB Drives**

Version: HPG4 (F) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.



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**Package: Online HDD/SDD Flash Component for Windows (x64) - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH, and MB4000GVYZK Drives**

Version: HPG4 (F) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for Windows Server 2019.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - MB2000GCWLT, MB3000GCWLU, and MB4000GCWLX Drives**

Version: HPG4 (F) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for Windows Server 2019.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - MB2000GFEMH and MB4000GFEMK Drives**

Version: HPG6 (E) (Critical)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Fixes**

- o Corrects a potential data integrity issue caused by an in process write retry incorrectly starting at the wrong location. This issue was found during supplier ongoing reliability testing.
- o The firmware also corrects settings preservation after a code download, and includes emergency power off improvements.

## **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MB4000GEFNA and MB6000GEFNB Drives**

Version: HPG6 (F) (Recommended)

## **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MB4000GEQNH and MB6000GEQNK Drives**

Version: HPGB (E) (Critical)

## **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Fixes**

- o Corrects a potential data integrity issue caused by an in process write retry incorrectly starting at the wrong location. This issue was found during supplier ongoing reliability testing.
- o The firmware also corrects settings preservation after a code download, and includes emergency power off improvements.

## **Enhancements**

- o Added support for Windows Server 2019.

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## **Package: Online HDD/SDD Flash Component for Windows (x64) - MB6000GEBTP Drives**

Version: HPG4 (E) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

- o Added support for Windows Server 2019.

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## **Package: Online HDD/SDD Flash Component for Windows (x64) - MB6000GEQUT and MB8000GEQUU Drives**

Version: HPGB (E) (Critical)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Fixes**

- o Corrects a potential data integrity issue caused by an in process write retry incorrectly starting at the wrong location. This issue was only found during supplier ongoing reliability testing.
- o Online firmware update fails when drives are connected behind AHCI controller.

## **Enhancements**

- o Added support for Windows Server 2019.

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## **Package: Online HDD/SDD Flash Component for Windows (x64) - MB6000GEXXV Drives**

Version: HPG2 (F) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM)

- mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
  - o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MB6000GVYYU Drives**

Version: HPG2 (E) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MB6000GVYZB and MB4000GVYZA Drives**

Version: HPG4 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MB8000GFECR Drives**

Version: HPG6 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFB Drives**

Version: HPG3 (C) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

#### **o Error Recovery Optimization Enhancements**

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MK003840GWHTTE Drives**

Version: HPG6 (B) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MK0960GECQK Drives**

Version: HPG3 (H) (Critical)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.,

### **Fixes**

- o Firmware fixes intermittent data corruption issue associated with unaligned sequential write operations.

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MM1000GEFQV and MM2000GEFRA Drives**

Version: HPG8 (D) (Recommended)

### **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.,

### **Enhancements**

- o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MM1000GFJTE Drives**

Version: HPG5 (B) (Optional)

### **Important Note!**

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

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives**

Version: HPGE (B) (Recommended)

### **Important Note!**

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

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for Windows Server 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives**

Version: HPG1 (B) (Recommended)

### **Important Note!**

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

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for Windows Server 2019.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - VK000240GWCFD, VK000480GWCFE, VK000960GWCFE, VK001920GWCFH and VK003840GWCFK Drives**

Version: HPG3 (C) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for Windows Server 2019.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives**

Version: HPGE (B) (Optional)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for Windows Server 2019.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives**

Version: HPG5 (B) (Critical)

**Important Note!**

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

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Fixes**

### **o Fixes a rare link loss issue and adds enhancements for drive reliability.**

o After HPG5 firmware is downloaded to the drive, the new HPG5 firmware will be active on the drive.

o The new drive bootloader code will be activated after the next drive power cycle.

o For more information, refer to HPE Customer Advisory at the following URL:

[https://support.hpe.com/hpsc/doc/public/display docId=emr\\_na-a00072768en\\_us](https://support.hpe.com/hpsc/doc/public/display docId=emr_na-a00072768en_us)

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives**

Version: HPG2 (B) (Recommended)

#### **Important Note!**

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

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

o Added support for Windows 2019.

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### **Package: Online HDD/SDD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives**

Version: HPG3 (B) (Recommended)

#### **Important Note!**

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

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Fixes**

- o Corrects a potential unresponsiveness during a Secure Erase operation, and fixes an incorrect error reporting issue during certain SATA protocol transfers.

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## **Package: Online HDD/SDD Flash Component for Windows (x64) - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH, MK001920GWUGK Drives**

Version: HPG2 (B) (Recommended)

## **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Fixes**

- o Fix to issue in bootloader download during power loss.
- o Change IDF Word 106 report 4K TU for 4/8TB drives to align with Microsoft SQL requirement.
- o Improvements to error exception.
- o Improvements to Secure lock fix during multi-thread read tests with high freq. power cycling.

## **Enhancements**

- o Added support for Windows Server 2019.

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## **Package: Online HDD/SDD Flash Component for Windows (x64) - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD Drives**

Version: HPG1 (B) (Optional)

## **Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

## **Enhancements**

- o Added support for Windows Server 2019.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - VK003840GWSXL Drive**

Version: HPG2 (B) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Fixes**

- o Fix to issue in bootloader download during power loss.
- o Change IDF Word 106 report 4K TU for 4/8TB drives to align with Microsoft SQL requirement.
- o Improvements to error exception.
- o Improvements to Secure lock fix during multi-thread read tests with high freq. power cycling.

**Enhancements**

- o Added support for Windows Server 2019.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - VK007680GWSXN Drive**

Version: HPG2 (B) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Fixes**

- o Fix to issue in bootloader download during power loss.
- o Change IDF Word 106 report 4K TU for 4/8TB drives to align with Microsoft SQL requirement.
- o Improvements to error exception.
- o Improvements to Secure lock fix during multi-thread read tests with high freq. power cycling.

**Enhancements**

- o Added support for Windows Server 2019.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL, and VK3840GFDKN Drives**

Version: HPG1 (E) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for Windows Server 2019.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - VK0240GEPQN, VK0480GEPQP, and VK0960GEPQQ Drives**

Version: HPG1 (E) (Recommended)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

**Enhancements**

- o Added support for Windows Server 2019.

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**Package: Online HDD/SDD Flash Component for Windows (x64) - VR000150GWEPP and VR000480GWEPR Drives**

Version: HPG1 (C) (Critical)

**Important Note!**

- o Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- o 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.
- o Customers who already installed latest firmware version do not need to update to sub version like (B) (C)

(D) etc..

### **Fixes**

**o Fixes a timing issue which can cause the drive to become non-functional.**

**o Fixes VPD Log D0h reported drive Sanitize times.**

o Adds support for Security Log Page BBh.

### **Enhancements**

o Added support for Windows Server 2019.

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## **Package: Online HDD/SDD Flash Component for Windows (x64) - XP0120GFJSL and XP0240GFJSN Drives**

Version: HPS4 (E) (Recommended)

### **Important Note!**

o 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.

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

### **Enhancements**

o Added support for Windows Server 2019.

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## **Package: Online HDD/SSD Flash Component for VMware ESXi - MB6000GVYYU Drives**

Version: HPG2 (E) (Recommended)

### **Important Note!**

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

o In AHCI configuration only offline flashing is supported.

o 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.

o Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc ..

### **Enhancements**

Added support for VMware 6.7 U2.

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**Package: Online ROM Flash Component for VMware ESXi - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10**

Version: 2.62 (Recommended)

**Fixes**

- o While processing I/O's larger than the RAID volume stripe size, the controller could stop responding.
- o If an active IO module cable is unplugged and re-inserted multiple times, the first reset request is lost and subsequent reset requests are aligned in a queue until the original request is completed. However, the first request will never complete and will result in error message 24613 in the ahs logs.

**Enhancements**

- o Add UBM1 Support
- o Support for backup power source charge timeout values from UEFI
- o UBM2 backplane support
- o Drive hotplug support for UBM backplanes

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**Package: 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, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10**

Version: 2.62 (Recommended)

**Fixes**

- o While processing I/O's larger than the RAID volume stripe size, the controller could stop responding.
- o If an active IO module cable is unplugged and re-inserted multiple times, the first reset request is lost and subsequent reset requests are aligned in a queue until the original request is completed. However, the first request will never complete and will result in error message 24613 in the ahs logs.

**Enhancements**

- o Add UBM1 Support
- o Support for backup power source charge timeout values from UEFI
- o UBM2 backplane support
- o Drive hotplug support for UBM backplanes

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**Package: 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, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10**

Version: 2.62 (Recommended)

**Fixes**

- o While processing I/O's larger than the RAID volume stripe size, the controller could stop responding.
- o If an active IO module cable is unplugged and re-inserted multiple times, the first reset request is lost and subsequent reset requests are aligned in a queue until the original request is completed. However, the

first request will never complete and will result in error message 24613 in the ahs logs.

### **Enhancements**

- o Add UBM1 Support
- o Support for backup power source charge timeout values from UEFI
- o UBM2 backplane support
- o Drive hotplug support for UBM backplanes

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

Version: 2019.12.01 (Recommended)

### **Important Note!**

Release Notes:

HPE StoreFabric Emulex Adapters Release Notes

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

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

To obtain the guide:

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

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

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

### **Prerequisites**

Firmware updates may be accomplished using the inbox or Out of Box (OOB) drivers. Please consult SPOCK for a list of supported configurations available at the following link:

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

The HPE supplied enablement kit must be installed prior to this firmware component being identified by SUM for deployment.

The OOB driver and enablement kit are available on the Service Pack for ProLiant (SPP) which is available at <http://www.hpe.com/servers/spp/download>.

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

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

Additional requirements:

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

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

## Emulex Host Bus Adapters(HBAs)

### **Enhancements**

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

16 Gb Standup, 16 Gb Mezzanine, and 32 Gb Standup

For LPe 32000 Family:

- o Enhanced the firmware to handle heavy VDM (vendor-defined message) load correctly without any unexpected behavior.
- o Enhanced MCTP (Management Component Transport Protocol) error handling by adding code that will exit gracefully.

Updated 16/32 Gb HBA/Mezz universal boot

Updated 16Gb HBA/Mezz universal boot

Updated 8Gb HBA/Mezz universal boot

Contains:

16/32 Gb HBA/Mezz universal boot 12.4.270.5

16 Gb HBA/Mezz universal boot 12.4.270.3

8 Gb standup/mezz firmware 2.10X6

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

Supported Devices and Features

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

- \* HPE 81E 8Gb Single Port PCIe Fibre Channel Host Bus Adapter
- \* HPE 82E 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- \* HPE LPe1205A 8Gb Fibre Channel Host Bus Adapter for BladeSystem c-Class
- \* HPE StoreFabric 84E 4-Port Fibre Channel Host Bus Adapter
- \* HPE SN1000E 16Gb Dual Port Fibre Channel Host Bus Adapter
- \* HPE SN1000E 16Gb Single Port Fibre Channel Host Bus Adapter
- \* HPE SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter
- \* HPE SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter
- \* HPE StoreFabric SN1100E 4P 16Gb Fibre Channel Host Bus Adapter
- \* HPE Fibre Channel 16Gb LPe1605 Mezz
- \* 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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**Package: HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 6.5**

Version: 2019.12.01 (Recommended)

### **Important Note!**

Release Notes:

HPE StoreFabric Emulex Adapter Release Notes



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

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

To obtain the guide:

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

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

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

### **Prerequisites**

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

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

### **Enhancements**

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

16 Gb Standup, 16 Gb Mezzanine, and 32 Gb Standup

For LPe 32000 Family:

- o Enhanced the firmware to handle heavy VDM (vendor-defined message) load correctly without any unexpected behavior.
- o Enhanced MCTP (Management Component Transport Protocol) error handling by adding code that will exit gracefully.

Updated 16/32 Gb HBA/Mezz universal boot

Updated 16Gb HBA/Mezz universal boot

Updated 8Gb HBA/Mezz universal boot

Contains:

16/32 Gb HBA/Mezz universal boot 12.4.270.5

16 Gb HBA/Mezz universal boot 12.4.270.3

8 Gb standup/mezz firmware 2.10X6

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

Supported Devices and Features

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

- \* HP 81E 8Gb Single Port PCIe Fibre Channel Host Bus Adapter
- \* HP 82E 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- \* HP LPe1205A 8Gb Fibre Channel Host Bus Adapter for BladeSystem c-Class
- \* HP StoreFabric 84E 4-Port Fibre Channel Host Bus Adapter
- \* HP SN1000E 16Gb Dual Port Fibre Channel Host Bus Adapter

- \* HP SN1000E 16Gb Single Port Fibre Channel Host Bus Adapter
- \* HP SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter
- \* HP SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter
- \* HPE StoreFabric SN1100E 4P 16Gb Fibre Channel Host Bus Adapter
- \* HP Fibre Channel 16Gb LPe1605 Mezz
- \* 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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## **Package: HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 6.7**

Version: 2019.12.01 (Recommended)

### **Important Note!**

Release Notes:

HPE StoreFabric Emulex Adapter Release Notes

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

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

To obtain the guide:

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

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

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

### **Prerequisites**

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

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

### **Enhancements**

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

16 Gb Standup, 16 Gb Mezzanine, and 32 Gb Standup

For LPe 32000 Family:

- o Enhanced the firmware to handle heavy VDM (vendor-defined message) load correctly without any unexpected behavior.
- o Enhanced MCTP (Management Component Transport Protocol) error handling by adding code that will

exit gracefully.

Updated 16/32 Gb HBA/Mezz universal boot

Updated 16Gb HBA/Mezz universal boot

Updated 8Gb HBA/Mezz universal boot

Contains:

16/32 Gb HBA/Mezz universal boot 12.4.270.5

16 Gb HBA/Mezz universal boot 12.4.270.3

8 Gb standup/mezz firmware 2.10X6

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

Supported Devices and Features

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

- \* HPE 81E 8Gb Single Port PCIe Fibre Channel Host Bus Adapter
- \* HPE 82E 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- \* HPE LPe1205A 8Gb Fibre Channel Host Bus Adapter for BladeSystem c-Class
- \* HPE StoreFabric 84E 4-Port Fibre Channel Host Bus Adapter
- \* HPE SN1000E 16Gb Dual Port Fibre Channel Host Bus Adapter
- \* HPE SN1000E 16Gb Single Port Fibre Channel Host Bus Adapter
- \* HPE SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter
- \* HPE SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter
- \* HPE StoreFabric SN1100E 4P 16Gb Fibre Channel Host Bus Adapter
- \* HPE Fibre Channel 16Gb LPe1605 Mezz
- \* 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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**Package: HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Windows 2012 R2/2016/2019 x64**

Version: 2019.12.01 (Recommended)

### **Important Note!**

Release Notes:

HPE StoreFabric Emulex Adapters Release Notes

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

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

To obtain the guide:

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

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

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

### **Prerequisites**

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

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

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

### **Enhancements**

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

16 Gb Standup, 16 Gb Mezzanine, and 32 Gb Standup

For LPe 32000 Family:

- o Enhanced the firmware to handle heavy VDM (vendor-defined message) load correctly without any unexpected behavior.
- o Enhanced MCTP (Management Component Transport Protocol) error handling by adding code that will exit gracefully.

Updated 16/32 Gb HBA/Mezz universal boot

Updated 16Gb HBA/Mezz universal boot

Updated 8Gb HBA/Mezz universal boot

Contains:

16/32 Gb HBA/Mezz universal boot 12.4.270.5

16 Gb HBA/Mezz universal boot 12.4.270.3

8 Gb standup/mezz firmware 2.10X6

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

Supported Devices and Features

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

- \* HP 81E 8Gb Single Port PCIe Fibre Channel Host Bus Adapter
- \* HP 82E 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- \* HP LPe1205A 8Gb Fibre Channel Host Bus Adapter for BladeSystem c-Class
- \* HP StoreFabric 84E 4-Port Fibre Channel Host Bus Adapter
- \* HP SN1000E 16Gb Dual Port Fibre Channel Host Bus Adapter
- \* HP SN1000E 16Gb Single Port Fibre Channel Host Bus Adapter
- \* HP SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter
- \* HP SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter
- \* HPE StoreFabric SN1100E 4P 16Gb Fibre Channel Host Bus Adapter
- \* HP Fibre Channel 16Gb LPe1605 Mezz

- \* 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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**Package: HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Linux (x86\_64)**

Version: 2019.12.01 (Recommended)

**Important Note!**

Release Notes:

HPE StoreFabric QLogic Adapter Release Notes

**Prerequisites**

Firmware updates may be accomplished using the inbox or Out of Box (OOB) drivers. Please consult SPOCK for a list of supported configurations available at the following link:

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

The HPE supplied enablement kit must be installed prior to this firmware component being identified by SUM for deployment.

The OOB driver and enablement kit are available on the Service Pack for ProLiant (SPP) which is available at <http://www.hpe.com/servers/spp/download>.

**Fixes**

Fixed the following:

Firmware:

- o Unexpected behavior of an Initiator performance seen when certain targets return otherwise good FCP\_RSP IUs, but containing a non-zero parameter field. This was caused by configuring the application-specific integrated circuit (ASIC) to treat this condition as a non-performance case
- o Firmware system unexpected behavior that occurred in target mode during an Fibre Channel Protocol (FCP) exchange for a write Input Output (IO)
- o Firmware system unexpected behavior or non-fatal unexpected behavior resulting from the aborted Direct Memory Access (DMA) of an FCP\_RSP IU payload to the host.
- o Eliminate stalls when transmitting response frame after data frames in certain cases.

BIOS:

- o NONE

UEFI:

- o NONE

Firmware:

- o The link did not come up with a certain 16G Small Form-factor Pluggable (SFP) model that required longer time to complete a write access than the firmware expected
- o After the link was brought down over an electrical connection, the Loss of Sync counter of the Link Error Status Block was not incremented due to an unhandled transition in the FC\_port state machine
- o Unexpected behavior of an Initiator performance seen when certain targets return otherwise good

FCP\_RSP IUs, but containing a non-zero parameter field. This was caused by configuring the application-specific integrated circuit (ASIC) to treat this condition as a non-performance case

BIOS:

- o NONE

UEFI:

- o NONE

Firmware:

- o The link did not come up with a certain 16G Small Form-factor Pluggable (SFP) model that required longer time to complete a write access than the firmware expected

- o After the link was brought down over an electrical connection, the Loss of Sync counter of the Link Error Status Block was not incremented due to an unhandled transition in the FC\_port state machine

- o Unexpected behavior of an Initiator performance seen when certain targets return otherwise good

FCP\_RSP IUs, but containing a non-zero parameter field. This was caused by configuring the application-specific integrated circuit (ASIC) to treat this condition as a non-performance case

BIOS:

- o NONE

UEFI:

- o Firmware Management Protocol SetImage unexpected behavior that caused QLogic Converge Console (QCC) Command Line Interface (CLI) to display the wrong Flash Image Version.

## **Enhancements**

UEFI:

- o Config Reset Protocol now checks the Level parameter.

- o Changed Human Information Infrastructure (HII) Configuration Language name to x-UEFI-MARVELL.

- o Updated Legacy Human Information Infrastructure (HII) strings.

- o Updated Firmware Management Protocol Human Information Infrastructure (HII) strings.

- o Driver Health Protocol now supports child handles.

- o Config Reset Protocol now restores adapter World Wide Port Name (WWPN) & World Wide Node Name (WWNN).

- o Added UEFI 2.7 support

UEFI:

- o Removed Loaded Image Protocol check from Driver Binding Protocol.

- o Config Reset Protocol now checks the Level parameter.

- o Changed Human Information Infrastructure (HII) Configuration Language name to x-UEFI-MARVELL.

- o Updated Legacy Human Information Infrastructure (HII) strings.

- o Updated Firmware Management Protocol Human Information Infrastructure (HII) strings.

- o Driver Health Protocol now supports child handles.

- o Config Reset Protocol now restores adapter World Wide Port Name (WWPN) & World Wide Node Name (WWNN).

- o Added UEFI 2.7 support

UEFI:

- o Removed Loaded Image Protocol check from Driver Binding Protocol.
- o Config Reset Protocol now checks the Level parameter.
- o Changed Human Information Infrastructure (HII) Configuration Language name to x-UEFI-MARVELL.
- o Updated Legacy Human Information Infrastructure (HII) strings.
- o Updated Firmware Management Protocol Human Information Infrastructure (HII) strings.
- o Driver Health Protocol now supports child handles.
- o Config Reset Protocol now restores adapter World Wide Port Name (WWPN) & World Wide Node Name (WWNN).

- o Added UEFI 2.7 support

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

- \* Package 3.81.05
- \* Firmware 8.08.206
- \* UEFI 7.00
- \* BIOS 3.56
- \* Package 6.02.01
- \* Firmware 8.08.230
- \* UEFI 7.02
- \* BIOS 3.43
- \* Package 1.73.07
- \* Firmware 8.08.230
- \* UEFI 7.02
- \* BIOS 3.64
- \* Package 02.02.15
- \* Firmware 09.02.02
- \* UEFI 7.08
- \* BIOS 0.0

#### Supported Devices and Features

This firmware supports the following HPE adapters:

- o HPE 81Q PCIe Fibre Channel Host Bus Adapter
- o HPE 82Q 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric 84Q 4P 8Gb Fibre Channel HBA
- o HPE QMH2572 8Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem
- o HPE QMH2672 16Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem
- o HPE StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1100Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1100Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- o HPE SN1610Q 32Gb 2P FC HBA
- o HPE SN1610Q 32Gb 1P FC HBA

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**Package: HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 6.5**

Version: 2019.12.01 (Recommended)

**Important Note!**

HPE StoreFabric QLogic Adapter Release Notes

**Prerequisites**

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

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

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

**Fixes**

Fixed the following:

Firmware:

- o Unexpected behavior of an Initiator performance seen when certain targets return otherwise good FCP\_RSP IUs, but containing a non-zero parameter field. This was caused by configuring the application-specific integrated circuit (ASIC) to treat this condition as a non-performance case
- o Firmware system unexpected behavior that occurred in target mode during an Fibre Channel Protocol (FCP) exchange for a write Input Output (IO)
- o Firmware system unexpected behavior or non-fatal unexpected behavior resulting from the aborted Direct Memory Access (DMA) of an FCP\_RSP IU payload to the host.
- o Eliminate stalls when transmitting response frame after data frames in certain cases.

BIOS:

- o NONE

UEFI:

- o NONE

Firmware:

- o The link did not come up with a certain 16G Small Form- factor Pluggable (SFP) model that required longer time to complete a write access than the firmware expected
- o After the link was brought down over an electrical connection, the Loss of Sync counter of the Link Error Status Block was not incremented due to an unhandled transition in the FC\_port state machine
- o Unexpected behavior of an Initiator performance seen when certain targets return otherwise good FCP\_RSP IUs, but containing a non-zero parameter field. This was caused by configuring the application-specific integrated circuit (ASIC) to treat this condition as a non-performance case

BIOS:

- o NONE

UEFI:

- o NONE

Firmware:

- o The link did not come up with a certain 16G Small Form- factor Pluggable (SFP) model that required



longer time to complete a write access than the firmware expected

- o After the link was brought down over an electrical connection, the Loss of Sync counter of the Link Error Status Block was not incremented due to an unhandled transition in the FC\_port state machine
- o Unexpected behavior of an Initiator performance seen when certain targets return otherwise good FCP\_RSP IUs, but containing a non-zero parameter field. This was caused by configuring the application-specific integrated circuit (ASIC) to treat this condition as a non-performance case

BIOS:

- o NONE

UEFI:

- o Firmware Management Protocol SetImage unexpected behavior that caused QLogic Converge Console (QCC) Command Line Interface (CLI) to display the wrong Flash Image Version.

## **Enhancements**

UEFI:

- o Config Reset Protocol now checks the Level parameter.
- o Changed Human Information Infrastructure (HII) Configuration Language name to x-UEFI-MARVELL.
- o Updated Legacy Human Information Infrastructure (HII) strings.
- o Updated Firmware Management Protocol Human Information Infrastructure (HII) strings.
- o Driver Health Protocol now supports child handles.
- o Config Reset Protocol now restores adapter World Wide Port Name (WWPN) & World Wide Node Name (WWNN).
- o Added UEFI 2.7 support

UEFI:

- o Removed Loaded Image Protocol check from Driver Binding Protocol.
- o Config Reset Protocol now checks the Level parameter.
- o Changed Human Information Infrastructure (HII) Configuration Language name to x-UEFI-MARVELL.
- o Updated Legacy Human Information Infrastructure (HII) strings.
- o Updated Firmware Management Protocol Human Information Infrastructure (HII) strings.
- o Driver Health Protocol now supports child handles.
- o Config Reset Protocol now restores adapter World Wide Port Name (WWPN) & World Wide Node Name (WWNN).
- o Added UEFI 2.7 support

UEFI:

- o Removed Loaded Image Protocol check from Driver Binding Protocol.
- o Config Reset Protocol now checks the Level parameter.
- o Changed Human Information Infrastructure (HII) Configuration Language name to x-UEFI-MARVELL.
- o Updated Legacy Human Information Infrastructure (HII) strings.
- o Updated Firmware Management Protocol Human Information Infrastructure (HII) strings.
- o Driver Health Protocol now supports child handles.
- o Config Reset Protocol now restores adapter World Wide Port Name (WWPN) & World Wide Node Name (WWNN).

o Added UEFI 2.7 support

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

\* Package 3.81.05

\* Firmware 8.08.206

\* UEFI 7.00

\* BIOS 3.56

\* Package 6.02.01

\* Firmware 8.08.230

\* UEFI 7.02

\* BIOS 3.43

\* Package 1.73.07

\* Firmware 8.08.230

\* UEFI 7.02

\* BIOS 3.64

\* Package 02.02.15

\* Firmware 09.02.02

\* UEFI 7.08

\* BIOS 0.0

Supported Devices and Features

This firmware supports the following HPE adapters:

o HPE 81Q PCIe Fibre Channel Host Bus Adapter

o HPE 82Q 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter

o HPE StoreFabric 84Q 4P 8Gb Fibre Channel HBA

o HPE QMH2572 8Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem

o HPE QMH2672 16Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem

o HPE StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter

o HPE StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter

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

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

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

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

o HPE SN1610Q 32Gb 2P FC HBA

o HPE SN1610Q 32Gb 1P FC HBA

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## **Package: HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 6.7**

Version: 2019.12.01 (Recommended)

### **Important Note!**

HPE StoreFabric QLogic Adapter Release Notes

### **Prerequisites**

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

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

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

## **Fixes**

Fixed the following:

Firmware:

- o Unexpected behavior of an Initiator performance seen when certain targets return otherwise good FCP\_RSP IUs, but containing a non-zero parameter field. This was caused by configuring the application-specific integrated circuit (ASIC) to treat this condition as a non-performance case
- o Firmware system unexpected behavior that occurred in target mode during an Fibre Channel Protocol (FCP) exchange for a write Input Output (IO)
- o Firmware system unexpected behavior or non-fatal unexpected behavior resulting from the aborted Direct Memory Access (DMA) of an FCP\_RSP IU payload to the host.
- o Eliminate stalls when transmitting response frame after data frames in certain cases.

BIOS:

- o NONE

UEFI:

- o NONE

Firmware:

- o The link did not come up with a certain 16G Small Form- factor Pluggable (SFP) model that required longer time to complete a write access than the firmware expected
- o After the link was brought down over an electrical connection, the Loss of Sync counter of the Link Error Status Block was not incremented due to an unhandled transition in the FC\_port state machine
- o Unexpected behavior of an Initiator performance seen when certain targets return otherwise good FCP\_RSP IUs, but containing a non-zero parameter field. This was caused by configuring the application-specific integrated circuit (ASIC) to treat this condition as a non-performance case

BIOS:

- o NONE

UEFI:

- o NONE

Firmware:

- o The link did not come up with a certain 16G Small Form- factor Pluggable (SFP) model that required longer time to complete a write access than the firmware expected
- o After the link was brought down over an electrical connection, the Loss of Sync counter of the Link Error Status Block was not incremented due to an unhandled transition in the FC\_port state machine
- o Unexpected behavior of an Initiator performance seen when certain targets return otherwise good FCP\_RSP IUs, but containing a non-zero parameter field. This was caused by configuring the application-specific integrated circuit (ASIC) to treat this condition as a non-performance case

BIOS:

- o NONE

UEFI:

- o Firmware Management Protocol SetImage unexpected behavior that caused QLogic Converge Console (QCC) Command Line Interface (CLI) to display the wrong Flash Image Version.

## **Enhancements**

UEFI:

- o Config Reset Protocol now checks the Level parameter.
- o Changed Human Information Infrastructure (HII) Configuration Language name to x-UEFI-MARVELL.
- o Updated Legacy Human Information Infrastructure (HII) strings.
- o Updated Firmware Management Protocol Human Information Infrastructure (HII) strings.
- o Driver Health Protocol now supports child handles.
- o Config Reset Protocol now restores adapter World Wide Port Name (WWPN) & World Wide Node Name (WWNN).
- o Added UEFI 2.7 support

UEFI:

- o Removed Loaded Image Protocol check from Driver Binding Protocol.
- o Config Reset Protocol now checks the Level parameter.
- o Changed Human Information Infrastructure (HII) Configuration Language name to x-UEFI-MARVELL.
- o Updated Legacy Human Information Infrastructure (HII) strings.
- o Updated Firmware Management Protocol Human Information Infrastructure (HII) strings.
- o Driver Health Protocol now supports child handles.
- o Config Reset Protocol now restores adapter World Wide Port Name (WWPN) & World Wide Node Name (WWNN).
- o Added UEFI 2.7 support

UEFI:

- o Removed Loaded Image Protocol check from Driver Binding Protocol.
- o Config Reset Protocol now checks the Level parameter.
- o Changed Human Information Infrastructure (HII) Configuration Language name to x-UEFI-MARVELL.
- o Updated Legacy Human Information Infrastructure (HII) strings.
- o Updated Firmware Management Protocol Human Information Infrastructure (HII) strings.
- o Driver Health Protocol now supports child handles.
- o Config Reset Protocol now restores adapter World Wide Port Name (WWPN) & World Wide Node Name (WWNN).
- o Added UEFI 2.7 support

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

- \* Package 3.81.05

- \* Firmware 8.08.206

- \* UEFI 7.00

- \* BIOS 3.56

- \* Package 6.02.01

- \* Firmware 8.08.230
- \* UEFI 7.02
- \* BIOS 3.43
- \* Package 1.73.07
- \* Firmware 8.08.230
- \* UEFI 7.02
- \* BIOS 3.64
- \* Package 02.02.15
- \* Firmware 09.02.02
- \* UEFI 7.08
- \* BIOS 0.0

#### Supported Devices and Features

This firmware supports the following HPE adapters:

- o HPE 81Q PCIe Fibre Channel Host Bus Adapter
- o HPE 82Q 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric 84Q 4P 8Gb Fibre Channel HBA
- o HPE QMH2572 8Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem
- o HPE QMH2672 16Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem
- o HPE StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1100Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1100Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- o HPE SN1610Q 32Gb 2P FC HBA
- o HPE SN1610Q 32Gb 1P FC HBA

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**Package: Online Flash for Linux - Server Platform Services (SPS) Firmware for servers using Intel Xeon Scalable 3100/3200/4100/4200/5100/5200/6100/6200/8100/8200 series Processors**

Version: 04.01.04.339 (Optional)

#### Enhancements

Version 04.01.04.339 firmware

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**Package: Online Flash for Windows x64 - Server Platform Services (SPS) Firmware for servers using Intel Xeon Scalable 3100/3200/4100/4200/5100/5200/6100/6200/8100/8200 series Processors**

Version: 04.01.04.339 (Optional)

#### Enhancements

Version 04.01.04.339 firmware

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**Package: Online ROM Flash Component for Windows x64 - Server Platform Services Manageability Engine Firmware for the Intel C242 and C246 PCH based systems**

Version: 05.01.03.094 (Optional)

**Enhancements**

Version 05.01.03.094 firmware

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**Package: Online ROM Flash for Linux - Server Platform Services Manageability Engine Firmware for the Intel C242 and C246 PCH based systems**

Version: 05.01.03.094 (Optional)

**Enhancements**

Version 05.01.03.094 firmware

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**Package: ROM Flash Firmware Package - Server Platform Services (SPS) Firmware for servers using Intel Xeon Scalable 3100/3200/4100/4200/5100/5200/6100/6200/8100/8200 series Processors**

Version: 04.01.04.339 (Optional)

**Enhancements**

Version 04.01.04.339 firmware

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**Package: ROM Flash Firmware Package - Server Platform Services Manageability Engine Firmware for the Intel C242 and C246 PCH based systems**

Version: 05.01.03.094 (Optional)

**Enhancements**

Version 05.01.03.094 firmware

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**Package: HPE Management Bundle Smart Component for ESXi 6.5**

Version: 2019.12.01 (Recommended)

**Fixes**

WBEM Providers

- o Fix incorrect CacheOperationalStatus data for Smart Array B140i Controller
- o Fix memory leak issues causing ESXi host to become unresponsive or crash Agentless Management Service
- o Fix buffer overrun when acquiring vib summary from ESXi host database
- o Fix cpqSePciSlotBoardName for empty slots with no CPU
- o Fix cpqSePciSlotBoardName for FC Adapters with specific Device IDs
- o Disable multiple IPv6 support in Gen9 to fix Host discovery issues due to missing support in iLO
- o Fix AMS hang when total IPv6 address string sizes exceed 256 bytes

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**Package: HPE Management Bundle Smart Component for ESXi 6.7**

Version: 2019.12.01 (Recommended)

**Fixes**

WBEM Providers

- o Fix incorrect CacheOperationalStatus data for Smart Array B140i Controller
- o Fix memory leak issues causing ESXi host to become unresponsive or crash Agentless Management Service
- o Fix buffer overrun when acquiring vib summary from ESXi host database
- o Fix cpqSePciSlotBoardName for empty slots with no CPU
- o Fix cpqSePciSlotBoardName for FC Adapters with specific Device IDs
- o Disable multiple IPv6 support in Gen9 to fix Host discovery issues due to missing support in iLO
- o Fix AMS hang when total IPv6 address string sizes exceed 256 bytes

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

Version: 1.2.1.64 (Recommended)

**Enhancements**

- o Improved integration with Smart Update Manager

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**Package: Emulex Fibre Channel driver component for VMware vSphere 6.5**

Version: 2019.12.01 (Recommended)

**Important Note!**

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

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

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

To obtain the guide:

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

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

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

## **Prerequisites**

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

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

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

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

To obtain the guide:

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

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

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

## **Enhancements**

Updated to Driver version 12.4.242.0

o Reset the link of the adapter instead of doing an infinite PLOGI retry.

Supported Devices and Features

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

- \* HP 81E 8Gb Single Port PCIe Fibre Channel Host Bus Adapter
- \* HP 82E 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- \* HP LPe1205A 8Gb Fibre Channel Host Bus Adapter for BladeSystem c-Class
- \* HP StoreFabric 84E 4-Port Fibre Channel Host Bus Adapter
- \* HP SN1000E 16Gb Dual Port Fibre Channel Host Bus Adapter
- \* HP SN1000E 16Gb Single Port Fibre Channel Host Bus Adapter
- \* HP SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter
- \* HP SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter
- \* HPE StoreFabric SN1100E 4P 16Gb Fibre Channel Host Bus Adapter
- \* HP Fibre Channel 16Gb LPe1605 Mezz
- \* 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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## **Package: Emulex Fibre Channel driver component for VMware vSphere 6.7**

Version: 2019.12.01 (Recommended)

## **Important Note!**

This component is intended to be used by HPE applications. It is a zip that contains the same driver



deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CPXXXX.xml file.

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

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

To obtain the guide:

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

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

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

### **Prerequisites**

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

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

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

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

To obtain the guide:

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

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

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

### **Enhancements**

Updated to Driver version 12.4.242.0

o Reset the link or the adapter instead of doing an infinite PLOGI retry.

Supported Devices and Features

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

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

- \* HP SN1000E 16Gb Dual Port Fibre Channel Host Bus Adapter
- \* HP SN1000E 16Gb Single Port Fibre Channel Host Bus Adapter
- \* HP SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter
- \* HP SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter
- \* HPE StoreFabric SN1100E 4P 16Gb Fibre Channel Host Bus Adapter
- \* HP Fibre Channel 16Gb LPe1605 Mezz
- \* 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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**Package: QLogic Fibre Channel driver component for VMware vSphere 6.5**

Version: 2019.12.01 (Recommended)

**Important Note!**

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

**Prerequisites**

Please consult SPOCK for a list of supported configurations available at the following link:  
<http://www.hpe.com/storage/spock/>

**Fixes**

Fixed the following:

- o Incorrect supported speed values were being reported in management app
- o Purple Screen of Death (PSOD) observed during N\_Port ID Virtualization (NPIV) failover
- o Sending Small Computer System Interface (SCSI) pass thru commands to an N\_Port ID Virtualization (NPIV) port was incomplete
- o Driver vmkmgmt shows the VM Identifier (VMID) info under the N\_Port ID Virtualization (NPIV) section, when N\_Port ID Virtualization (NPIV) is not enabled
- o Various unexpected behaviors with introduced Simplified Fabric Discovery support.
- o ql2xt10difvendor was disabled and associated with ql2xenablesmartsan
- o zdump does not get saved off on Boot From SAN (BFS) configuration
- o FDMI 2 RHBA command was getting rejected by the switch

**Enhancements**

Driver version 2.1.94.0

Added support for the following;

- o Simplified Fabric Discovery support
  - o Secure adapter and fw support displayed in vmkmgmt interface
  - o Correctly indicate default values for module parameter
- Supported Devices and Features

This driver supports the following HPE adapters:

- o HPE 81Q PCIe Fibre Channel Host Bus Adapter
- o HPE 82Q 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric 84Q 4P 8Gb Fibre Channel HBA
- o HPE QMH2572 8Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem
- o HPE QMH2672 16Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem
- o HPE StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1100Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1100Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- o HPE SN1610Q 32Gb 2P FC HBA
- o HPE SN1610Q 32Gb 1P FC HBA

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**Package: QLogic Fibre Channel driver component for VMware vSphere 6.7**

Version: 2019.12.01 (Recommended)

**Important Note!**

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

**Prerequisites**

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

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

**Fixes**

Fixed the following:

- o Incorrect supported speed values were being reported in management app
- o Purple Screen of Death (PSOD) observed during N\_Port ID Virtualization (NPIV) failover
- o Sending Small Computer System Interface (SCSI) pass thru commands to an N\_Port ID Virtualization (NPIV) port was incomplete
- o Driver vmkmgmt shows the VM Identifier (VMID) info under the N\_Port ID Virtualization (NPIV) section, when N\_Port ID Virtualization (NPIV) is not enabled
- o Various unexpected behaviors with introduced Simplified Fabric Discovery support.
- o ql2xt10difvendor was disabled and associated with ql2xenablesmartsan
- o zdump does not get saved off on Boot From SAN (BFS) configuration
- o FDMI 2 RHBA command was getting rejected by the switch

**Enhancements**

Driver version 3.1.29.0

Added support for the following:

- o Simplified Fabric Discovery support
- o Secure adapter and fw support displayed in vmkmgmt interface
- o Correctly indicate default values for module parameter

#### Supported Devices and Features

This driver supports the following HPE adapters:

- o HPE 81Q PCIe Fibre Channel Host Bus Adapter
- o HPE 82Q 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric 84Q 4P 8Gb Fibre Channel HBA
- o HPE QMH2572 8Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem
- o HPE QMH2672 16Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem
- o HPE StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1100Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1100Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- o HPE SN1610Q 32Gb 2P FC HBA
- o HPE SN1610Q 32Gb 1P FC HBA

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#### **Package: Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux -Red Hat Enterprise Linux (RHEL)**

Version: 4.1-1 (b) (Optional)

#### **Prerequisites**

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

Version: 12.4.256.0 (Recommended)

#### **Important Note!**

Release Notes:

HPE StoreFabric Emulex Adapters Release Notes

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

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

To obtain the guide:

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

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

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

### **Prerequisites**

The target environment must have the libHBAAPI Package installed prior to the installation of the enablement kit. (If not already present, the libHBAAPI Package can be obtained from the operating system installation media.)

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

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

To obtain the guide:

1. Go to <http://www.hpe.com/support/manuals>
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This document provides special instructions and considerations for using the driver kits for FC and CNA adapters.

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

### **Enhancements**

Updated to version 12.4.256.0

Supported Devices and Features

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

- \* HP 81E 8Gb Single Port PCIe Fibre Channel Host Bus Adapter
- \* HP 82E 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- \* HP LPe1205A 8Gb Fibre Channel Host Bus Adapter for BladeSystem c-Class
- \* HP StoreFabric 84E 4-Port Fibre Channel Host Bus Adapter
- \* HP SN1000E 16Gb Dual Port Fibre Channel Host Bus Adapter
- \* HP SN1000E 16Gb Single Port Fibre Channel Host Bus Adapter
- \* HP SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter
- \* HP SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter
- \* HPE StoreFabric SN1100E 4P 16Gb Fibre Channel Host Bus Adapter
- \* HP Fibre Channel 16Gb LPe1605 Mezz
- \* 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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**Package: HPE Emulex Smart SAN Enablement Kit for Linux**

Version: 1.0.0.0-4 (e) (Optional)

**Important Note!**

The Smart SAN enablement kit will not execute when an operating system has only the inbox fibre channel driver installed. An out of box (OOB) fibre channel driver is needed to utilize Smart SAN functionality. If any OOB driver is installed, the enablement kit will pre-enable/disable Smart SAN functionality for future use. It can then be activated once a Smart SAN enabled OOB driver is installed (see Prerequisite Notes) and after a reboot has occurred.

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

Storage Information Library

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

By default, HP 3PAR Storage is selected under Products and Solutions.

**Prerequisites**

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

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

The HPE supplied fibre channel driver must be installed prior to this enablement kit component if you want to enable Smart SAN functionality. The driver is available on the HPE.com website at [www.hpe.com](http://www.hpe.com). However, if a Smart SAN enabled driver is not installed at execution time, the component will land the enablement kit files for future use after the driver has been installed.

**Enhancements**

Added support to SLES15SP1

Updated to version 1.0.0.0-4

Supported Devices and Features

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

- \* HP 81E 8Gb Single Port PCIe Fibre Channel Host Bus Adapter
- \* HP 82E 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- \* HP StoreFabric 84E 4-Port Fibre Channel Host Bus Adapter
- \* HP SN1000E 16Gb Dual Port Fibre Channel Host Bus Adapter
- \* HP SN1000E 16Gb Single Port Fibre Channel Host Bus Adapter
- \* HP Fibre Channel 16Gb LPe1605 Mezz
- \* HP SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter
- \* HP SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter
- \* HPE StoreFabric SN1100E 4P 16Gb Fibre Channel Host Bus Adapter
- \* 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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**Package: HPE Emulex Smart SAN Enablement Kit for Windows 64 bit operating systems**

Version: 1.0.0.1 (i) (Recommended)

**Important Note!**

The Smart SAN enablement kit will not execute when an operating system has only the inbox fibre channel driver installed. An out of box (OOB) fibre channel driver is needed to utilize Smart SAN functionality. If any OOB driver is installed, the enablement kit will pre-enable/disable Smart SAN functionality for future use. It can then be activated once a Smart SAN enabled OOB driver is installed (see Prerequisite Notes) and after a reboot has occurred.

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

Storage Information Library

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

By default, HP 3PAR Storage is selected under Products and Solutions.

**Prerequisites**

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

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

The HPE supplied fibre channel driver must be installed prior to this enablement kit component if you want to enable Smart SAN functionality. The driver is available on the HPE.com website at [www.hpe.com](http://www.hpe.com). HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver v11.1.145.16 cp030886.exe However, if a Smart SAN enabled driver is not installed at execution time, the component will land the enablement kit files for future use after the driver has been installed.

**Enhancements**

Updated to version 1.0.0.1

Supported Devices and Features

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

- \* HP 81E 8Gb Single Port PCIe Fibre Channel Host Bus Adapter
- \* HP 82E 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- \* HP StoreFabric 84E 4-Port Fibre Channel Host Bus Adapter
- \* HP LPe1205A 8Gb Fibre Channel Host Bus Adapter for BladeSystem c-Class
- \* HP SN1000E 16Gb Dual Port Fibre Channel Host Bus Adapter
- \* HP SN1000E 16Gb Single Port Fibre Channel Host Bus Adapter
- \* HP Fibre Channel 16Gb LPe1605 Mezz
- \* HP SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter
- \* HP SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter
- \* HPE StoreFabric SN1100E 4P 16Gb Fibre Channel Host Bus Adapter
- \* 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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## Package: HPE QLogic Fibre Channel Enablement Kit for Linux

Version: 6.0.0.0-11 (b) (Optional)

### **Important Note!**

Release Notes:

HPE StoreFabric QLogic Adapters Release Notes

### **Prerequisites**

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

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

### **Fixes**

Fixed the following:

- o Non Volatile Memory Express (NVME) targets not seen when Non Volatile Memory Express (NVME) Id and Subsys Id are different
- o Apps initialization delay seen with N\_Port ID Virtualization (NPIV) ports
- o Apps issues seen with Non Volatile Memory Express (NVME) target in Red Hat Enterprise Linux (RHEL)
- o Apps issues seen with Non Volatile Memory Express (NVME) target in N\_Port ID Virtualization (NPIV) configuration
- o BSG interface fails if /tmp is mounted with tmpfs on shared memory

### **Enhancements**

Updated the kit to version 6.0.0.0-11

Added support for the following :

- o Allow SDGetActiveRegions Application Interface (API) for Gen 6 Fibre Channel Host Bus Adapters
- o Restrict application features for Non Volatile Memory Express (NVME) targets
- o Add Non Volatile Random Access Memory (NVRAM) parameter to select Fibre Channel Protocol (FCP) or Non Volatile Memory Express (NVME) targets

Supported Devices and Features

This version of the enablement kit supports the following devices:

- o HPE 81Q PCIe Fibre Channel Host Bus Adapter
- o HPE 82Q 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric 84Q 4P 8Gb Fibre Channel HBA
- o HPE QMH2572 8Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem
- o HPE QMH2672 16Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem
- o HPE StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1100Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1100Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- o HPE SN1610Q 32Gb 2P FC HBA
- o HPE SN1610Q 32Gb 1P FC HBA



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**Package: HPE QLogic Smart SAN enablement kit for Linux**

Version: 3.3-3 (h) (Optional)

**Important Note!**

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

Storage Information Library

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

By default, HP 3PAR Storage is selected under

Products and Solutions.

**Prerequisites**

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

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

The HPE supplied fibre channel driver must be installed prior to this enablement kit component if you want to enable Smart SAN functionality. The driver is available on the HPE.com website at [www.hpe.com](http://www.hpe.com).

\* Red Hat Enterprise Linux 6 Server (x86-64) FCoE/FC Driver Kit for HPE QLogic CNAs, HBAs and mezzanine HBAs, version 8.07.00.42.06.0-k1

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

However, if a Smart SAN enabled driver is not installed at execution time, the component will land the enablement kit files for future use after the driver has been installed.

**Enhancements**

Added Support to RHEL8 and SLES15SP1

Updated to version 3.3-3

Supported Devices and Features

This enablement kit is supported on the following HPE adapters:

- o HPE 81Q PCIe Fibre Channel Host Bus Adapter
- o HPE 82Q 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric 84Q 4P 8Gb Fibre Channel HBA
- o HPE QMH2572 8Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem
- o HPE QMH2672 16Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem
- o HPE StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1100Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1100Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- o HPE SN1610Q 32Gb 2P FC HBA
- o HPE SN1610Q 32Gb 1P FC HBA

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

Version: 1.0.0.1 (i) (Recommended)

**Important Note!**

The Smart SAN enablement kit will not execute when an operating system has only the inbox fibre channel driver installed. An out of box (OOB) fibre channel driver is needed to utilize Smart SAN functionality. If any OOB driver is installed, the enablement kit will pre-enable/disable Smart SAN functionality for future use. It can then be activated once a Smart SAN enabled OOB driver is installed (see Prerequisite Notes) and after a reboot has occurred.

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

Storage Information Library

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

By default, HP 3PAR Storage is selected under Products and Solutions.

**Prerequisites**

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

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

The HPE supplied fibre channel driver must be installed prior to this enablement kit component if you want to enable Smart SAN functionality. The driver is available on the HPE.com website at [www.hpe.com](http://www.hpe.com).

- o HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver v9.2.2.20, cp031252.exe
- o HPE Storage Fibre Channel Adapter Kit for the QLogic Storport Driver for Windows Server 2012 and 2012 R2 v9.2.2.20, cp031253.exe
- o HPE Storage Fibre Channel Adapter Kit for the QLogic Storport Driver for Windows Server 2016 version 9.2.2.20, cp031251.exe
- o HPE Storage Fibre Channel Adapter Kit for the QLogic Storport Driver for Windows Server 2019 version 9.2.9.22, cp037397.exe

However, if a Smart SAN enabled driver is not installed at execution time, the component will land the enablement kit files for future use after the driver has been installed.

**Enhancements**

Updated to version 1.0.0.1

Supported Devices and Features

This enablement kit is supported on the following HPE adapters:

- o HPE 81Q PCIe Fibre Channel Host Bus Adapter
- o HPE 82Q 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric 84Q 4P 8Gb Fibre Channel HBA
- o HPE QMH2572 8Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem
- o HPE QMH2672 16Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem
- o HPE StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1100Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter

- o HPE StoreFabric SN1100Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- o HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- o HPE SN1610Q 32Gb 2P FC HBA
- o HPE SN1610Q 32Gb 1P FC HBA

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

Version: 2.1.0 (Optional)

**Prerequisites**

- o amsd only supported on HPE Gen10 Servers.
- o amsd provides information to the iLO 5 service providing SNMP support.
- o 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:

- o Addressed memory leaks
- o Corrected segfaults reported in ahslog
- o Improved synchronization between iLO and amsd

**Enhancements**

New features enabled with this release:

- o All storage sub-agents are now independent services
- o Added support for new network controllers

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**Package: Agentless Management Service for Windows X64**

Version: 2.10.0.0 (Optional)

**Important Note!**

iLO Firmware Version:

- o This version of AMS has been tested with iLO 5 firmware version 2.10. It is recommended to install AMS 2.10 on systems with iLO 5 firmware 2.10 or newer.

About installation and enablement of SMA service:

- o 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.
- o During AMS installation in silent mode, SMA is installed but the service is not enabled.
- o 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"

- o IMPORTANT: The SNMP service community name and permission must also be setup. This is not done by "EnableSma.bat".
  - o To disable SMA after it has been enabled, go to the following folder: %ProgramFiles%\%OEM%\AMS\Service\ (Typically c:\Program Files\%OEM%\AMS\Service) and execute "DisableSma.bat /f"
  - o After installing Windows operating system, make sure all the latest Microsoft Updates are downloaded and installed (wuapp.exe can be launched to start the update process). If this is not done, a critical error may be reported in Windows Event Log, "The Agentless Management Service terminated unexpectedly".
- AMS Control Panel Applet:
- o The AMS control panel applet UI is best displayed on the system when screen resolution is 1280 x 1024 pixels or higher and text size 100%.
  - o Test trap generated from AMS Control Panel Applet requires iLO5 firmware version 2.10 and newer.
  - o When in iLO5 high security mode (e.g. FIPS mode), MD5 authentication protocol will not be shown.

### **Prerequisites**

- The Channel Interface Driver for Windows X64 must be installed prior to this component.
- Microsoft SNMP Service must be enabled, if SMA (System Management Assistant) is enabled.

### **Fixes**

- o Fixed the unexpected SNMP Trap 11020 being generated even if there is no change in health status. The issue was caused by SNMP cpqHoMibHealthStatusArray OID value being OK (2) even if the corresponding hardware is not present. The default condition has been changed to Unknown (0).

### **Enhancements**

- o AMS generated events in Windows Event Log are now readable even if AMS is uninstalled
- o Enhanced display of IML events in Windows System Log to separate event details from recommended action
- o Added support for Smart Array P824i-p MR controller external box information in SNMP OIDs cpqSasPhyDrvSsBoxModel, cpqSasPhyDrvSsBoxFwRev, cpqSasPhyDrvSsBoxVendor and cpqSasPhyDrvSsBoxSerialNumber.
- o Added support for 9 or more SATA drives in the server
- o Support for new I/O cards

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

Version: 4.15.6.0 (Optional)

### **Enhancements**

- o Added support to enable SmartCache on volumes greater than 256TB

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

Version: 4.15.6.0 (Optional)

## **Enhancements**

- o Added support to enable SmartCache on volumes greater than 256TB

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

Version: 4.15.6.0 (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**

- o Added support to enable SmartCache on volumes greater than 256TB

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

Version: 4.15.6.0 (Optional)

## **Enhancements**

- o Added support to enable SmartCache on volumes greater than 256TB

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

Version: 4.15.6.0 (Optional)

## **Enhancements**

- o Added support to enable SmartCache on volumes greater than 256TB

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

Version: 4.15.6.0 (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**

- o Added support to enable SmartCache on volumes greater than 256TB  
Utility - Tools

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### **Package: HPE Utilities Bundle Smart Component for ESXi 6.5**

Version: 2019.12.01 (Recommended)

### **Important Note!**

Refer to the HPE VMware Utilities Guide for VMware vSphere 6.5 U3 which is located at HPE Information Library.

### **Enhancements**

Updated the Smart Storage Administrator CLI (SSACLI)

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### **Package: HPE Utilities Bundle Smart Component for ESXi 6.7**

Version: 2019.12.01 (Recommended)

### **Important Note!**

Refer to the HPE VMware Utilities Guide for VMware vSphere 6.7 U3 which is located at HPE Information Library.

### **Enhancements**

Updated the Smart Storage Administrator CLI (SSACLI)