

HA8000V シリーズ

Service Pack for HA8000V (SPH)

Version 7.42 12

Readme

2024年11月

1. はじめに

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

1.1 他社所有名称に対する表示

HITACHI は、株式会社 日立製作所の商標または登録商標です。

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

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 Broadcom Inc. の登録商標または商標です。

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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。こちらも含わせてご参照ください。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。

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

1.3 変更履歴

発行日	変更内容
2024年11月	初版

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

SPH のバージョン及び適用機種/適用 OS の組み合わせについては、「[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。

3.1 適用機種

- HA8000V/DL20 Gen11 (U65)
- HA8000V/DL360 Gen11 (U54)
- HA8000V/DL380a Gen11 (U58)
- HA8000V/DL380 Gen11 (U54)
- HA8000V/DL320 Gen11 (U63)
- HA8000V/DL560 Gen11 (U59)
- HA8000V/ML30 Gen11 (U65)
- HA8000V/ML350 Gen11 (U54)

3.2 適用 OS

- Microsoft® Windows Server® 2022
- Microsoft® Windows Server® 2019
- Red Hat® Enterprise Linux® Server 8.9
- VMware ESXi™ 8.0
- VMware ESXi™ 7.0

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

『3 適用機種及びOS』を参照してください。

(1) 追加サポート機種及びOS

- 追加サポート機種
 - HA8000V/DL380a Gen11 (U58)
- 追加サポートOS
 - Red Hat® Enterprise Linux® Server 8.9

(2) 追加サポートデバイス

なし

(3) サポート除外機種及びOS

- サポート除外機種
 - なし
- サポート除外OS
 - Red Hat® Enterprise Linux® Server 9.2
 - Red Hat® Enterprise Linux® Server 8.8

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]ー[ダウンロード] に定期的にアクセスして、最新のドライバ・ファームウェア・ユーティリティへ更新していただくことをお勧めします。

5.2 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

ストオプション(Advanced Options)]から「アドバンストオプション(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：

"--softwareonly"パラメータを使用してください。

例) # ./smartupdate --s --softwareonly

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：

"--report"パラメータを使用してレポート作成し、作成されたレポートを参照してください。レポート出力先は画面に表示されます。レポートを参照し、“Install Needed”の項目が、“0”となっていることを確認してください。

例) # ./smartupdate --report

(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。

(3) SUM の展開モードに関する補足説明

SUM にはいくつかのアップデート方法(展開モード)があります。展開モードにより、対象 OS/更新対象が異なりますので、以下の表を参照の上、展開モードを決定してください。

SUM 展開モード		展開対象 OS(※ 1)			更新対象	
		Windows	RHEL	VMware	ファームウェア	ソフトウェア (ドライバ, ユーティリティ等)
オンライン	ローカル	○	○	—	○	○
	リモート(※2) (OS を介したアップデート)	○	○	—	○	○
	リモート(※3) (iLO レポジトリアップデート)	○	○	○	○	○
オフライン		○	○	○	○	—

※1：ゲスト OS は対象外。

※2：対象ノードにホスト OS の IP アドレスを指定した場合。

※3：対象ノードに iLO アドレスを指定した場合。対象ノードのホスト OS に iSUT 及び AMS のインストール・設定が必要

(4) SUM GUI での適用パッケージの選択について

SUM GUI を使用している場合、インベントリが完了すると展開(Deploy)するパッケージの確認画面が表示されます。

確認画面では、選択した SPH/ベースラインに含まれる更新パッケージのうち、対象装置に適用可能なパッケージが表示され、適用が推奨される(現在のバージョンより新しい)パッケージが展開対象として自動的に選択されます。(選択されたパッケージは、行背景が反転し「選択済み」()または「Selected」()ボタン表示となります。ボタンをクリックすると、選択が解除され「選択」()「Select」()ボタン表示となります。)

自動選択されなかったパッケージは、「強制」()または「Force」()ボタンをクリックすることで強制的に適用対象とすることができます。(強制適用を選択した場合、行背景が反転し「強制」()「Forced」()ボタンで表示されます。)

【注意】

ファームウェア/ドライバ/ユーティリティは、別途ご案内のない限り、最新のものをご使用いただくことを推奨しています。特に、強制適用を選択した場合、選択したバージョンが古いとダウングレードとなりますので、意図せずダウングレードしてしまうことが無いよう、操作には注意してください。

(5) Linux 環境における適用パッケージのOSライブラリ依存について

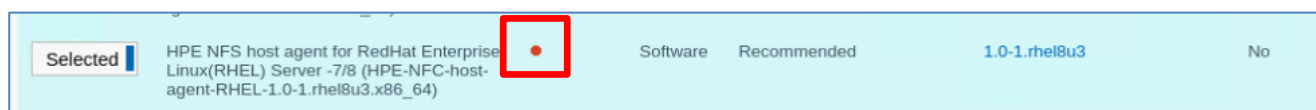
Linux 環境で利用するパッケージには、特定の OS ライブラリを前提とするものがあります。そのパッケージを適用する際、前提とする OS ライブラリが事前にインストールされていない場合、インベントリ完了後、または展開(Deploy)完了後に依存関係エラーとなります。

エラーが発生する場合、以降記述の各エラー表示例をご参照頂き、依存ファイルとして表示されるファイル/ライブラリをインストール後、再度 SPH を適用して下さい。

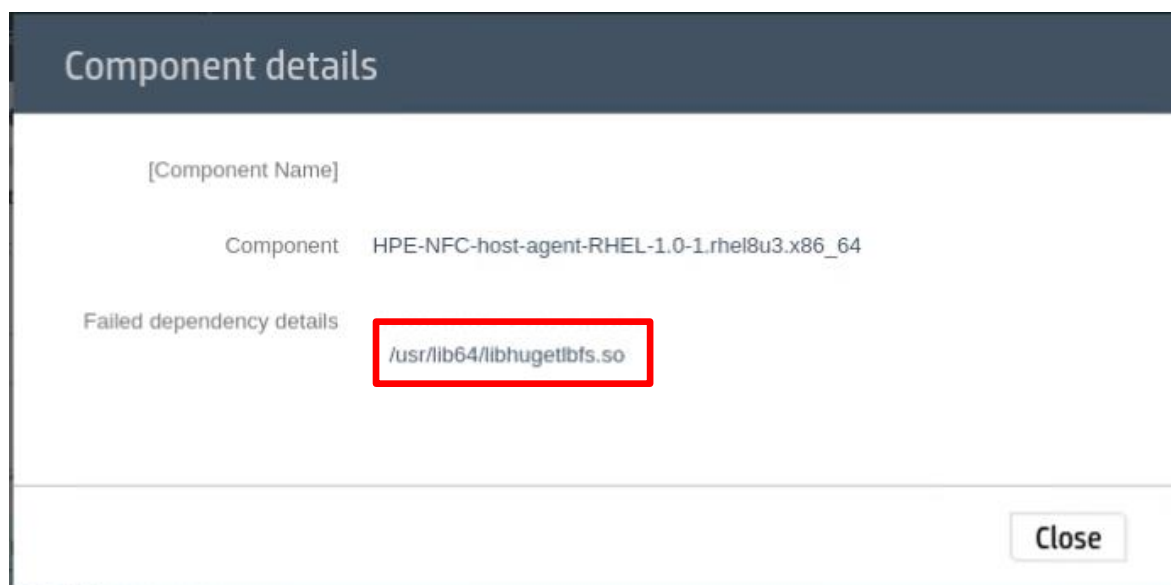
なお、依存する OS ライブラリは、依存関係解消後に新たな依存関係が発生する場合があります、その場合は依存関係エラーが解消するまで、SPH 適用を繰り返す必要があります。

【インベントリ完了後のエラー表示】

エラーが発生したパッケージは、赤丸(赤枠内)で表示されます。



上記赤枠内の赤丸をダブルクリックすると次のダイアログが表示され、“Failed dependency details”として、インストールが必要となるファイル/ライブラリが表示されます。(赤枠内)



上記の例では、インストールが必要となるファイル/ライブラリとして、“libhugetlbfs.so”を示しています。

【展開(Deploy)完了後のエラー表示】

エラーが発生したパッケージは、赤丸(赤枠内)で表示されます。

Deployment			
localhost Install done with error(s) Deployment done.			
Search			
Component	Package	Deployment status	Log
HPE-NFC-host-agent-RHEL-1.0-1.rhel8u3.x86_64	HPE NFS host agent for RedHat Enterprise Linux(RHEL) Server -7/8	Update returned an error.	View log

上記赤枠内の“View log”をクリックすると次のダイアログが表示され、“error: Failed dependencies:”として、インストールが必要となるファイル/ライブラリが表示されます。(赤枠内)

Deployment log

Component HPE-NFC-host-agent-RHEL-1.0-1.rhel8u3.x86_64

Component log

```
===== Smart Update Manager Installation Log =====

Source: HPE-NFC-host-agent-RHEL-1.0-1.rhel8u3.x86_64.rpm
Version: 1.0-1.rhel8u3
Log Date: 11/30/21 10:53 AM

error: Failed dependencies:
/usr/lib64/libuuid.so is needed by HPE-NFC-host-agent-
RHEL-1.0-1.rhel8u3.x86_64

Return code: -3

Log Session End. [10:53 AM]
Component update process finished with exit code [-3].
=====

===== Smart Update Manager Installation Log =====

Source: HPE-NFC-host-agent-RHEL-1.0-1.rhel8u3.x86_64.rpm
Version: 1.0-1.rhel8u3
Log Date: 11/30/21 10:53 AM
```

Close

上記の例では、インストールが必要となるファイル/ライブラリとして、“libuuid.so”を示しています。

(6) iLO レポジトリを利用したアップデートについて

コンポーネントの形式によって、iLO レポジトリを使用した iLO 経由でコンポーネントが展開(Deploy)されます。iLO レポジトリにアップロードされたコンポーネントは、インストールキューに追加され順次展開されていきます。

次に示すエラー状態を参照の上、上記状態と判断できる場合は、インストールキューに残っているコンポーネントをすべて削除し、再度 SPH を適用してください。

iLO WEB インタフェースの[ファームウェア & OS ソフトウェア]>[インストールキュー]ページを参照します。

✕
🗑

ファームウェアアップデート
 直近のファームウェアのアップデートまたはアップロードする試みは成功しませんでした。有効な署名付きフラッシュファイルを使用していることを確認して、もう一度試してください。コンポーネントをインストールする場合は、まずそれをiLOレポジトリにアップロードしてから、それをインストールキューに追加してください。

ファームウェア & OSソフト... - インストールキ...
🟢 🔍 🌐 ⚠️ 🛡️ 👤 ?

ファームウェア
ソフトウェア
メンテナンスウィンドウ
iLOレポジトリ
インストールセット

インストールキュー

iLO日付/時刻(UTC): 2021-12-01 13:09
+

状態	名前	開始	失効		
● 完了	Broadcom NetXtreme-E adapters 218.0.166.0	N/A	なし		
● 完了	HPE SR932i-p and SR416i-a Gen10 Plus Controllers 03.01.04.072	N/A	なし		
● 完了	Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-po...	N/A	なし		
◆ 例外	Mellanox Firmware Package(FWPKG) for HPE Ethernet 10/25Gb 2-...	N/A	なし		
⌚ 保留	Mellanox Firmware Package(FWPKG) for HPE Ethernet 100Gb 1-po...	前のタスクの実行後	なし		

すべて削除

⚡ ファームウェアのアップデート

↑ iLOレポジトリにアップロード

≡ キューに追加

「例外」及び「保留」状態となっているパッケージが表示されている場合、「全て削除」ボタンをクリックして、キューに登録されたコンポーネントを削除してください。

SUM は、アップデートに必要となるデバイスならびにソフトウェア等の情報を iLO 経由で取得します。iLO の状態により、まれに情報取得できないことがあり、以下に示すようにインベントリに失敗します。

【インベントリ失敗時の表示例】



SUM を再実行しても本エラーが解消されない場合は、下記のいずれかの手順を実施してください。

- (1) iLO の再起動（リセット）を実施してください。詳細は『iLO 6 x.xx ユーザーガイド』(※)の「iLO の再起動（リセット）」を参照してください。『iLO 6 x.xx ユーザーガイド』は、「[日立アドバンスドサーバー HA8000V シリーズ ホームページ](#)」に掲載されている「製品マニュアル」よりダウンロードしてください。
- (2) オンラインアップデート(OS 稼働中のアップデート)の場合、装置の再起動を実施してください。
- (3) 装置の給電を停止(電源ケーブルの抜去や UPS の出力停止等)後、10 秒待った後に給電を再開してください。

※x.xx の部分にはバージョンが入ります。

(8) オンライン SUM 実行中の OS 再起動について

オンラインにて SUM 実行中に、対象装置が自動的に OS 再起動することがあります。この場合、いくつかパッケージがアップデートされていない可能性がありますので、再度 SUM を実行して、残りのパッケージをアップデートしてください。

全てアップデートされているかの確認方法は、『5.3 (1) ファームウェア/ドライバの依存関係について』記載の手順を参考にしてください。

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、『6.2.10 Firmware - Lights-Out Management』の「Language Pack - Japanese」に掲載されている“cp*****.exe”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、“lang_ja_***.lpk”を取り出してください。

- (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の再起動をおこなう機能です。IP を使った OS のインストール又は SPH の適用、その他の方法による ASR ドライバ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。以下を参照して 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、下表の各 OS バージョンに対応した『6.2.8 Driver - System Management』の「Package filename」欄記載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.	Windows バージョン	Description
1	Windows Server 2019	iLO 6 Automatic Server Recovery Driver for Microsoft Windows Server 2019
2	Windows Server 2022	iLO 6 Automatic Server Recovery Driver for Microsoft Windows Server 2022

(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 より以下のオプションで 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 より以下のオプションで 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 VMware をご使用にあたっての注意事項

5.7.1 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、『5.7.2 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、以下の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]ー[OS、ISV 情報]にある『VMware』に掲載している注意事項をご参照の上、推奨ドライババージョンをご確認ください。

5.7.2 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(zip ファイル)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 ESXi™ 7.0	cp062093.zip	sutComponent_701.5.2.0.6-*.zip
2	VMware ESXi™ 8.0	cp062092.zip	sutComponent_800.5.2.0.5-*.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) 次の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) 次のコマンドを実行し、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、次のコマンドを実行してください。

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

### 5.7.3 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

#### (1) iLO の認証情報設定

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)



## ①iSUT 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: <*****>
```

### 【注意】

認証情報の設定は、iSUT が OnDemand モードの状態で行ってください。AutoDeployReboot モードで設定した場合、認証情報が有効にならない場合があります。

## ②iLO 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。

## (2) iSUT の設定確認・変更

VM ホスト上で "sut -status" を実行し、iSUT の設定が "EnableiLOQueuedUpdates=true"となっていることを確認してください。"false"の場合は、VM ホスト上で以下を実行してください。

```
sut -set enableiloqueuedupdates=true
```

### 5.7.4 リモートオンライン 展開モードをご使用時の注意事項

本モードをご使用の際は、iLO が Agentless Management Service(AMS)に接続している必要があります。iLO が AMS に接続していない場合、適用可能なコンポーネントにソフトウェア/ドライバパッケージが追加されません。

iLO と AMS の接続状態を確認するには、iLO WEB インタフェースの[システム情報]>[概要]ページを開き、サブシステムおよびデバイスの Agentless Management Service のステータスを確認して下さい。

#### 【iLO が AMS に接続している場合】

| ↑サブシステムおよびデバイス               | ステータス |
|------------------------------|-------|
| Agentless Management Service | 🟢 OK  |

#### 【iLO が AMS に接続していない場合】

| ↑サブシステムおよびデバイス               | ステータス   |
|------------------------------|---------|
| Agentless Management Service | ① 利用不可能 |

iLO が AMS に接続していない場合、以下の手順を実施し、再度 iLO と AMS の接続状態を確認して下さい。

- 装置電源 OFF(ESXi ホストシャットダウン)



- 装置電源ケーブルの抜き差し
- 装置電源 ON(ESXi ホスト起動)

5.7.5 Agentless Management Bundle Smart Component(amsdv) のインストール

システム装置 Gen11 の VMware システムに対して、iLO Web コンソール上のドライバ情報の表示および SPH/SUM を使用したドライバのアップデート(『リモートオンライン』展開モード)を行うには、ESXi ホストに Agentless Management Bundle Smart Component(以下、amsdv) をインストールする必要があります。

ESXi ホストに amsdv 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) amsdv 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、amsdv のオフラインバンドル(zip ファイル)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 ESXi™ 7.0 Update3 (Build 20842708) | cp062858.zip      | amsdvComponent_701.11.7.0.2-1-*.zip |
| 2   | VMware ESXi™ 8.0 GA                       |                   |                                     |

- (2) 取り出した amsdv のオフラインバンドルを VMware ESXi の「datastore1」直下へ転送してください。
- (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) 次の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) 次のコマンドを実行し、amsdv が running 表示されていることを確認してください。
- ```
/etc/init.d/amsdv status
```

```
[表示例]
amsdv-smadvrev is running xxxxxxxxxx x
amsdv-ahsdv is running xxxxxxxxxx x
amsdv-amsdv is running xxxxxxxxxx x
amsdv-smadv is running xxxxxxxxxx x
```

## 5.8 SUM オフライン展開モードご使用時の注意事項

SUM オフライン展開モードでは Secure Boot をサポートしておりません。Secure Boot 設定は Disabled に設定の上ご使用ください。

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。

## 5.9 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、下記の制限事項があります。

### 5.9.1 Intel 製ネットワークアダプタのファームウェアアップデートについて

Intel 製ネットワークアダプタのファームウェアアップデートを行う場合、ファームウェアアップデート後に再起動を行っても、サブ電源で動作する機能は動作し続けているため、アップデートが完全には反映されません。

アップデート後に電源ケーブルを抜いて電源を 5 秒以上切断してから、電源ケーブルを差しなおし電源を入れなおしてください。電源ケーブルを抜き差しする必要があるため、リモートでは実施できません。

本制限事項の最新の状況並びに具体的な対象アダプタの情報については、アドバイザリ：「特定のネットワークアダプタについてファームウェアアップデート後に電源ケーブルの抜き差しが必要になる」(ADV-2019-0019)を参照してください。

## 5.10 RAID コントローラ環境での OS セットアップの注意事項

### 5.10.1 ドライバの適用について

下表記載の RAID コントローラご利用環境で、Windows または RHEL の新規・再セットアップの際には、SPH を適用する前に SPH に収録された「6.2.6 Driver - Storage Controller」記載の各 OS に対応した RAID コントローラドライバを適用してください。

ドライバの適用方法は、「HA8000V Gen11 重要事項および読替ガイド」の[システム装置のセットアップ]-[OS のインストール]を参照して下さい。

| 形名(*1)            | 製品名                   | Device                                |
|-------------------|-----------------------|---------------------------------------|
| TQ-R□□-P47184-B21 | SR932i-p Gen11 コントローラ | HPE SR932i-p Gen11 24G Controller Kit |

|                   |                       |                                       |
|-------------------|-----------------------|---------------------------------------|
| TQ-R□□-P47789-B21 | MR216i-o Gen11 コントローラ | HPE MR216i-o Gen11 12G Controller Kit |
| TQ-R□□-P47785-B21 | MR216i-p Gen11 コントローラ | HPE MR216i-p Gen11 12G Controller Kit |
| TQ-R□□-P58335-B21 | MR408i-o Gen11 コントローラ | HPE MR408i-o Gen11 SPDM Storage Cntlr |
| TQ-R□□-P47781-B21 | MR416i-o Gen11 コントローラ | HPE MR416i-o Gen11 12G Controller Kit |
| TQ-R□□-P47777-B21 | MR416i-p Gen11 コントローラ | HPE MR416i-p Gen11 12G Controller Kit |

(\*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   | 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】

- BCM 5719 1Gb 4p BASE-T Adptr
- BCM 5719 1Gb 4p BASE-T OCP Adptr
- Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE

#### (1) 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。(表中の"x"表記は、本ドキュメントリリース時点で未サポートであることを示します。)

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
```

この時、ログイン画面が表示された場合には、SUM 起動時にご使用の(ログインしていた)OS ユーザ名/パスワードを入力してください。

なお、SUM の詳細な操作方法は、「[日立アドバンスドサーバ HA8000V シリーズ ホームページ](#)」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。

次節以降、カテゴリ別にパッケージの情報を示します。

「Firmware/Driver version」列の情報は、SPH 収録の各パッケージに含まれるファームウェアまたはドライバのバージョン情報を示していますが、VMware システム向けパッケージの場合は、VMware vSphere コンポーネントバージョンを示しています。

## 6.2.1 Application - System Management

| No. | Description                                      | Package filename             | Device | Package Version | Firmware/Driver version |
|-----|--------------------------------------------------|------------------------------|--------|-----------------|-------------------------|
| 1   | Integrated Smart Update Tools 5.2.0 for ESXi 7.0 | cp062093.zip                 | -      | 2024.08.00      | 701.5.2.0.6-0           |
| 2   | Integrated Smart Update Tools 5.2.0 for ESXi 8.0 | cp062092.zip                 | -      | 2024.08.00      | 800.5.2.0.5-0           |
| 3   | Integrated Smart Update Tools for Linux x64      | sut-5.2.0-5.linux.x86_64.rpm | -      | 5.2.0.0         | 5.2.0-5.linux           |
| 4   | Integrated Smart Update Tools for Windows x64    | cp062091.exe                 | -      | 5.2.0.0         | 5.2.0.0                 |

## 6.2.2 BIOS - System ROM

| No. | Description                                                 | Package filename                                       | Device            | Package Version     | Firmware/Driver version |
|-----|-------------------------------------------------------------|--------------------------------------------------------|-------------------|---------------------|-------------------------|
| 5   | Online ROM Flash Component for Linux - System ROM U54       | firmware-system-oem-u54-2.30_2024_08_09-1.1.x86_64.rpm | System BIOS - U54 | 2.30_08-09-2024     | U54 v2.30 (08/09/2024)  |
| 6   | Online ROM Flash Component for Linux - System ROM U58       | firmware-system-oem-u58-2.30_2024_08_09-2.1.x86_64.rpm | System BIOS - U58 | 2.30_08-09-2024 (B) | U58 v2.30 (08/09/2024)  |
| 7   | Online ROM Flash Component for Linux - System ROM U59       | firmware-system-oem-u59-2.30_2024_08_09-1.1.x86_64.rpm | System BIOS - U59 | 2.30_08-09-2024     | U59 v2.30 (08/09/2024)  |
| 8   | Online ROM Flash Component for Linux - System ROM U63       | firmware-system-oem-u63-2.30_2024_08_09-1.1.x86_64.rpm | System BIOS - U63 | 2.30_08-09-2024     | U63 v2.30 (08/09/2024)  |
| 9   | Online ROM Flash Component for Linux - System ROM U65       | firmware-system-oem-u65-1.52_2024_07_11-1.1.x86_64.rpm | System BIOS - U65 | 1.52_07-11-2024     | U65 v1.52 (07/11/2024)  |
| 10  | Online ROM Flash Component for Windows x64 - System ROM U54 | cp062425.exe                                           | System BIOS - U54 | 2.30_08-09-2024     | U54 v2.30 (08/09/2024)  |
| 11  | Online ROM Flash Component for Windows x64 - System ROM U58 | cp062674.exe                                           | System BIOS - U58 | 2.30_08-09-2024     | U58 v2.30 (08/09/2024)  |
| 12  | Online ROM Flash Component for Windows x64 - System ROM U59 | cp062440.exe                                           | System BIOS - U59 | 2.30_08-09-2024     | U59 v2.30 (08/09/2024)  |
| 13  | Online ROM Flash Component for Windows x64 - System ROM U63 | cp062426.exe                                           | System BIOS - U63 | 2.30_08-09-2024     | U63 v2.30 (08/09/2024)  |
| 14  | Online ROM Flash Component for Windows x64 - System ROM U65 | cp062584.exe                                           | System BIOS - U65 | 1.52_07-11-2024 (B) | U65 v1.52 (07/11/2024)  |
| 15  | ROM Flash Firmware Package - System ROM U54                 | OEM.U54_2.30_08_09_2024.fwpkg                          | System BIOS - U54 | 2.30_08-09-2024     | U54 v2.30 (08/09/2024)  |
| 16  | ROM Flash Firmware Package - System ROM U58                 | OEM.U58_2.30_08_09_2024.fwpkg                          | System BIOS - U58 | 2.30_08-09-2024     | U58 v2.30 (08/09/2024)  |
| 17  | ROM Flash Firmware Package - System ROM U59                 | OEM.U59_2.30_08_09_2024.fwpkg                          | System BIOS - U59 | 2.30_08-09-2024     | U59 v2.30 (08/09/2024)  |
| 18  | ROM Flash Firmware Package - System ROM U63                 | OEM.U63_2.30_08_09_2024.fwpkg                          | System BIOS - U63 | 2.30_08-09-2024     | U63 v2.30 (08/09/2024)  |
| 19  | ROM Flash Firmware Package - System ROM U65                 | OEM.U65_1.52_07_11_2024.fwpkg                          | System BIOS - U65 | 1.52_07-11-2024     | U65 v1.52 (07/11/2024)  |

## 6.2.3 Driver - Chipset

| No. | Description                                                       | Package filename | Device | Package Version | Firmware/Driver version |
|-----|-------------------------------------------------------------------|------------------|--------|-----------------|-------------------------|
| 20  | Identifiers for Intel Xeon E-24xx Processor for Microsoft Windows | cp062293.exe     | -      | 10.1.19886.8592 | 10.1.19886.8592         |
| 21  | Identifiers for Intel Xeon Scalable                               | cp061861.exe     | -      | 10.1.19879.     | 10.1.19879.85           |

| No. | Description                                                    | Package filename | Device | Package Version | Firmware/Driver version |
|-----|----------------------------------------------------------------|------------------|--------|-----------------|-------------------------|
|     | Processors (Fourth and Fifth Generation) for Microsoft Windows |                  |        | 8585            | 85                      |

#### 6.2.4 Driver – Network

| No. | Description                                                     | Package filename                                   | Device                                                           | Package Version    | Firmware/Driver version    |
|-----|-----------------------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------|--------------------|----------------------------|
| 22  | Broadcom NX1 1Gb Driver for Windows Server x64 Editions         | cp062094.exe                                       | Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE      | 221.0.6.0          | 221.0.6.0                  |
| 23  | Broadcom NX1 1Gb Driver for Windows Server x64 Editions         | cp062094.exe                                       | Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE | 221.0.6.0          | 221.0.6.0                  |
| 24  | Broadcom NX1 1Gb Driver for Windows Server x64 Editions         | cp062094.exe                                       | Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE  | 221.0.6.0          | 221.0.6.0                  |
| 25  | Broadcom NetXtreme-E Driver for Microsoft Windows Server 2019   | cp062102.exe                                       | BCM 57414 10/25GbE 2p SFP28 Adptr                                | 230.0.162.0        | 230.0.162.0                |
| 26  | Broadcom NetXtreme-E Driver for Microsoft Windows Server 2019   | cp062102.exe                                       | BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr                           | 230.0.162.0        | 230.0.162.0                |
| 27  | Broadcom NetXtreme-E Driver for Microsoft Windows Server 2019   | cp062102.exe                                       | BCM 57416 10GbE 2p BASE-T Adptr                                  | 230.0.162.0        | 230.0.162.0                |
| 28  | Broadcom NetXtreme-E Driver for Microsoft Windows Server 2019   | cp062102.exe                                       | BCM 57416 10GbE 2p BASE-T OCP3 Adptr                             | 230.0.162.0        | 230.0.162.0                |
| 29  | Broadcom NetXtreme-E Driver for Microsoft Windows Server 2019   | cp062102.exe                                       | BCM 57412 10GbE 2p SFP+ Adptr                                    | 230.0.162.0        | 230.0.162.0                |
| 30  | Broadcom NetXtreme-E Driver for Microsoft Windows Server 2019   | cp062102.exe                                       | BCM 57412 10GbE 2p SFP+ OCP3 Adptr                               | 230.0.162.0        | 230.0.162.0                |
| 31  | Broadcom NetXtreme-E Driver for Microsoft Windows Server 2019   | cp062102.exe                                       | BCM 57504 10/25GbE 4p SFP28 Adptr                                | 230.0.162.0        | 230.0.162.0                |
| 32  | Broadcom NetXtreme-E Driver for Microsoft Windows Server 2019   | cp062102.exe                                       | BCM 57504 10/25GbE 4p SFP28 OCP3 Adptr                           | 230.0.162.0        | 230.0.162.0                |
| 33  | Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022   | cp062103.exe                                       | BCM 57414 10/25GbE 2p SFP28 Adptr                                | 230.0.162.0        | 230.0.162.0                |
| 34  | Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022   | cp062103.exe                                       | BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr                           | 230.0.162.0        | 230.0.162.0                |
| 35  | Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022   | cp062103.exe                                       | BCM 57416 10GbE 2p BASE-T Adptr                                  | 230.0.162.0        | 230.0.162.0                |
| 36  | Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022   | cp062103.exe                                       | BCM 57416 10GbE 2p BASE-T OCP3 Adptr                             | 230.0.162.0        | 230.0.162.0                |
| 37  | Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022   | cp062103.exe                                       | BCM 57412 10GbE 2p SFP+ Adptr                                    | 230.0.162.0        | 230.0.162.0                |
| 38  | Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022   | cp062103.exe                                       | BCM 57412 10GbE 2p SFP+ OCP3 Adptr                               | 230.0.162.0        | 230.0.162.0                |
| 39  | Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022   | cp062103.exe                                       | BCM 57504 10/25GbE 4p SFP28 Adptr                                | 230.0.162.0        | 230.0.162.0                |
| 40  | Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022   | cp062103.exe                                       | BCM 57504 10/25GbE 4p SFP28 OCP3 Adptr                           | 230.0.162.0        | 230.0.162.0                |
| 41  | HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8 | kmod-bnxt_en-1.10.3-230.0.132.0.rhel8u9.x86_64.rpm | BCM 57414 10/25GbE 2p SFP28 Adptr                                | 1.10.3-230.0.132.0 | 1.10.3-230.0.132.0.rhel8u9 |
| 42  | HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8 | kmod-bnxt_en-1.10.3-230.0.132.0.rhel8u9.x86_64.rpm | BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr                           | 1.10.3-230.0.132.0 | 1.10.3-230.0.132.0.rhel8u9 |
| 43  | HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8 | kmod-bnxt_en-1.10.3-230.0.132.0.rhel8u9.x86_64.rpm | BCM 57416 10GbE 2p BASE-T Adptr                                  | 1.10.3-230.0.132.0 | 1.10.3-230.0.132.0.rhel8u9 |

|    |                                                                 |                                                    |                                        |                    |                                   |
|----|-----------------------------------------------------------------|----------------------------------------------------|----------------------------------------|--------------------|-----------------------------------|
| 44 | HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8 | kmod-bnxt_en-1.10.3-230.0.132.0.rhel8u9.x86_64.rpm | BCM 57416 10GbE 2p BASE-T OCP3 Adptr   | 1.10.3-230.0.132.0 | 1.10.3-230.0.132.0.rhel8u9        |
| 45 | HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8 | kmod-bnxt_en-1.10.3-230.0.132.0.rhel8u9.x86_64.rpm | BCM 57412 10GbE 2p SFP+ Adptr          | 1.10.3-230.0.132.0 | 1.10.3-230.0.132.0.rhel8u9        |
| 46 | HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8 | kmod-bnxt_en-1.10.3-230.0.132.0.rhel8u9.x86_64.rpm | BCM 57412 10GbE 2p SFP+ OCP3 Adptr     | 1.10.3-230.0.132.0 | 1.10.3-230.0.132.0.rhel8u9        |
| 47 | HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8 | kmod-bnxt_en-1.10.3-230.0.132.0.rhel8u9.x86_64.rpm | BCM 57504 10/25GbE 4p SFP28 Adptr      | 1.10.3-230.0.132.0 | 1.10.3-230.0.132.0.rhel8u9        |
| 48 | HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8 | kmod-bnxt_en-1.10.3-230.0.132.0.rhel8u9.x86_64.rpm | BCM 57504 10/25GbE 4p SFP28 OCP3 Adptr | 1.10.3-230.0.132.0 | 1.10.3-230.0.132.0.rhel8u9        |
| 49 | HPE Broadcom NetXtreme-E Drivers for VMware vSphere 7.0         | cp062100.zip                                       | BCM 57414 10/25GbE 2p SFP28 Adptr      | 2024.09.00         | 230.0.236.0-10EM.700.1.0.15843807 |
| 50 | HPE Broadcom NetXtreme-E Drivers for VMware vSphere 7.0         | cp062100.zip                                       | BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr | 2024.09.00         | 230.0.236.0-10EM.700.1.0.15843807 |
| 51 | HPE Broadcom NetXtreme-E Drivers for VMware vSphere 7.0         | cp062100.zip                                       | BCM 57416 10GbE 2p BASE-T Adptr        | 2024.09.00         | 230.0.236.0-10EM.700.1.0.15843807 |
| 52 | HPE Broadcom NetXtreme-E Drivers for VMware vSphere 7.0         | cp062100.zip                                       | BCM 57416 10GbE 2p BASE-T OCP3 Adptr   | 2024.09.00         | 230.0.236.0-10EM.700.1.0.15843807 |
| 53 | HPE Broadcom NetXtreme-E Drivers for VMware vSphere 7.0         | cp062100.zip                                       | BCM 57412 10GbE 2p SFP+ Adptr          | 2024.09.00         | 230.0.236.0-10EM.700.1.0.15843807 |
| 54 | HPE Broadcom NetXtreme-E Drivers for VMware vSphere 7.0         | cp062100.zip                                       | BCM 57412 10GbE 2p SFP+ OCP3 Adptr     | 2024.09.00         | 230.0.236.0-10EM.700.1.0.15843807 |
| 55 | HPE Broadcom NetXtreme-E Drivers for VMware vSphere 7.0         | cp062100.zip                                       | BCM 57504 10/25GbE 4p SFP28 Adptr      | 2024.09.00         | 230.0.236.0-10EM.700.1.0.15843807 |
| 56 | HPE Broadcom NetXtreme-E Drivers for VMware vSphere 7.0         | cp062100.zip                                       | BCM 57504 10/25GbE 4p SFP28 OCP3 Adptr | 2024.09.00         | 230.0.236.0-10EM.700.1.0.15843807 |
| 57 | HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0         | cp062101.zip                                       | BCM 57414 10/25GbE 2p SFP28 Adptr      | 2024.09.00         | 230.0.236.0-10EM.800.1.0.20613240 |
| 58 | HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0         | cp062101.zip                                       | BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr | 2024.09.00         | 230.0.236.0-10EM.800.1.0.20613240 |
| 59 | HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0         | cp062101.zip                                       | BCM 57416 10GbE 2p BASE-T Adptr        | 2024.09.00         | 230.0.236.0-10EM.800.1.0.20613240 |
| 60 | HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0         | cp062101.zip                                       | BCM 57416 10GbE 2p BASE-T OCP3 Adptr   | 2024.09.00         | 230.0.236.0-10EM.800.1.0.20613240 |
| 61 | HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0         | cp062101.zip                                       | BCM 57412 10GbE 2p SFP+ Adptr          | 2024.09.00         | 230.0.236.0-10EM.800.1.0.20613240 |
| 62 | HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0         | cp062101.zip                                       | BCM 57412 10GbE 2p SFP+ OCP3 Adptr     | 2024.09.00         | 230.0.236.0-10EM.800.1.0.20613240 |
| 63 | HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0         | cp062101.zip                                       | BCM 57504 10/25GbE 4p SFP28 Adptr      | 2024.09.00         | 230.0.236.0-10EM.800.1.0.20613240 |
| 64 | HPE Broadcom NetXtreme-E Drivers for                            | cp062101.zip                                       | BCM 57504 10/25GbE                     | 2024.09.00         | 230.0.236.0-                      |



|    |                                                                                |                                           |                                                                    |             |                                    |
|----|--------------------------------------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------|-------------|------------------------------------|
|    | VMware vSphere 8.0                                                             |                                           | 4p SFP28 OCP3 Adptr                                                |             | 10EM.800.1.0<br>.20613240          |
| 65 | HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 9. | libbnxt_re-230.0.132.0-rhel8u9.x86_64.rpm | BCM 57414 10/25GbE 2p SFP28 Adptr                                  | 230.0.132.0 | 230.0.132.0-rhel8u9                |
| 66 | HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 9. | libbnxt_re-230.0.132.0-rhel8u9.x86_64.rpm | BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr                             | 230.0.132.0 | 230.0.132.0-rhel8u9                |
| 67 | HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 9. | libbnxt_re-230.0.132.0-rhel8u9.x86_64.rpm | BCM 57416 10GbE 2p BASE-T Adptr                                    | 230.0.132.0 | 230.0.132.0-rhel8u9                |
| 68 | HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 9. | libbnxt_re-230.0.132.0-rhel8u9.x86_64.rpm | BCM 57416 10GbE 2p BASE-T OCP3 Adptr                               | 230.0.132.0 | 230.0.132.0-rhel8u9                |
| 69 | HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 9. | libbnxt_re-230.0.132.0-rhel8u9.x86_64.rpm | BCM 57412 10GbE 2p SFP+ Adptr                                      | 230.0.132.0 | 230.0.132.0-rhel8u9                |
| 70 | HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 9. | libbnxt_re-230.0.132.0-rhel8u9.x86_64.rpm | BCM 57412 10GbE 2p SFP+ OCP3 Adptr                                 | 230.0.132.0 | 230.0.132.0-rhel8u9                |
| 71 | HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 9. | libbnxt_re-230.0.132.0-rhel8u9.x86_64.rpm | BCM 57504 10/25GbE 4p SFP28 Adptr                                  | 230.0.132.0 | 230.0.132.0-rhel8u9                |
| 72 | HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 9. | libbnxt_re-230.0.132.0-rhel8u9.x86_64.rpm | BCM 57504 10/25GbE 4p SFP28 OCP3 Adptr                             | 230.0.132.0 | 230.0.132.0-rhel8u9                |
| 73 | HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 8               | kmod-tg3-3.139m-1.rhel8u9.x86_64.rpm      | Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE        | 3.139m-1    | 3.139m-1.rhel8u9                   |
| 74 | HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 8               | kmod-tg3-3.139m-1.rhel8u9.x86_64.rpm      | Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE   | 3.139m-1    | 3.139m-1.rhel8u9                   |
| 75 | HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 8               | kmod-tg3-3.139m-1.rhel8u9.x86_64.rpm      | Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE    | 3.139m-1    | 3.139m-1.rhel8u9                   |
| 76 | HPE Intel iavf Drivers for Red Hat Enterprise Linux 8                          | kmod-hp-iavf-4.11.2-1.rhel8u9.x86_64.rpm  | Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE      | 4.11.2-1    | 4.11.2-1.rhel8u9                   |
| 77 | HPE Intel iavf Drivers for Red Hat Enterprise Linux 8                          | kmod-hp-iavf-4.11.2-1.rhel8u9.x86_64.rpm  | Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE | 4.11.2-1    | 4.11.2-1.rhel8u9                   |
| 78 | HPE Intel iavf Drivers for Red Hat Enterprise Linux 8                          | kmod-hp-iavf-4.11.2-1.rhel8u9.x86_64.rpm  | Intel E810-XXVDA2 adapter                                          | 4.11.2-1    | 4.11.2-1.rhel8u9                   |
| 79 | HPE Intel iavf Drivers for Red Hat Enterprise Linux 8                          | kmod-hp-iavf-4.11.2-1.rhel8u9.x86_64.rpm  | Intel E810-XXVDA2 OCP3 adapter                                     | 4.11.2-1    | 4.11.2-1.rhel8u9                   |
| 80 | HPE Intel iavf Drivers for Red Hat Enterprise Linux 8                          | kmod-hp-iavf-4.11.2-1.rhel8u9.x86_64.rpm  | Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE    | 4.11.2-1    | 4.11.2-1.rhel8u9                   |
| 81 | HPE Intel igb Drivers for Red Hat Enterprise Linux 8                           | kmod-hp-igb-6.16.9-1.rhel8u9.x86_64.rpm   | Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE           | 6.16.9-1    | 6.16.9-1.rhel8u9                   |
| 82 | HPE Intel igb Drivers for Red Hat Enterprise Linux 8                           | kmod-hp-igb-6.16.9-1.rhel8u9.x86_64.rpm   | Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE      | 6.16.9-1    | 6.16.9-1.rhel8u9                   |
| 83 | HPE Intel igbn Driver for VMware vSphere 7.0                                   | cp062162.zip                              | Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE           | 2024.09.00  | 1.12.0.0-10EM.700.1.0<br>.15843807 |
| 84 | HPE Intel igbn Driver for VMware                                               | cp062162.zip                              | Intel I350-T4 Ethernet                                             | 2024.09.00  | 1.12.0.0-                          |

|    |                                                                                                                                                            |                                                                              |                                                                     |                   |                                          |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------|-------------------|------------------------------------------|
|    | vSphere 7.0                                                                                                                                                |                                                                              | 1Gb 4-port BASE-T<br>OCP3 Adapter for HPE                           |                   | 10EM.700.1.0<br>.15843807                |
| 85 | HPE Intel igbn Driver for VMware<br>vSphere 8.0                                                                                                            | cp062161.zip                                                                 | Intel I350-T4 Ethernet<br>1Gb 4-port BASE-T<br>Adapter for HPE      | 2024.09.00        | 1.12.0.0-<br>10EM.800.1.0<br>.20613240   |
| 86 | HPE Intel igbn Driver for VMware<br>vSphere 8.0                                                                                                            | cp062161.zip                                                                 | Intel I350-T4 Ethernet<br>1Gb 4-port BASE-T<br>OCP3 Adapter for HPE | 2024.09.00        | 1.12.0.0-<br>10EM.800.1.0<br>.20613240   |
| 87 | HPE Mellanox RoCE (RDMA over<br>Converged Ethernet) ConnectX-4,<br>ConnectX-5 and ConnectX-6 Driver for<br>Red Hat Enterprise Linux 8 Update 9<br>(x86_64) | mlnx-ofa_kernel-<br>24.04-<br>OFED.24.04.0.6.6.1.rh<br>el8u9.x86_64.rpm      | MLX MCX631102<br>10/25GbE 2p SFP28<br>Adptr                         | 24.04-<br>0.6.6.1 | 24.04-<br>OFED.24.04.0.<br>6.6.1.rhel8u9 |
| 88 | HPE Mellanox RoCE (RDMA over<br>Converged Ethernet) ConnectX-4,<br>ConnectX-5 and ConnectX-6 Driver for<br>Red Hat Enterprise Linux 8 Update 9<br>(x86_64) | mlnx-ofa_kernel-<br>24.04-<br>OFED.24.04.0.6.6.1.rh<br>el8u9.x86_64.rpm      | MLX MCX6314<br>10/25GbE 2p SFP28<br>OCP3 Adptr                      | 24.04-<br>0.6.6.1 | 24.04-<br>OFED.24.04.0.<br>6.6.1.rhel8u9 |
| 89 | HPE Mellanox RoCE (RDMA over<br>Converged Ethernet) ConnectX-4,<br>ConnectX-5 and ConnectX-6 Driver for<br>Red Hat Enterprise Linux 8 Update 9<br>(x86_64) | mlnx-ofa_kernel-<br>24.04-<br>OFED.24.04.0.6.6.1.rh<br>el8u9.x86_64.rpm      | HPE 100GbE 1p<br>QSFP28 MCX515A-<br>CCAT Adptr                      | 24.04-<br>0.6.6.1 | 24.04-<br>OFED.24.04.0.<br>6.6.1.rhel8u9 |
| 90 | HPE Mellanox RoCE (RDMA over<br>Converged Ethernet) ConnectX-4,<br>ConnectX-5 and ConnectX-6 Driver for<br>Red Hat Enterprise Linux 8 Update 9<br>(x86_64) | mlnx-ofa_kernel-<br>24.04-<br>OFED.24.04.0.6.6.1.rh<br>el8u9.x86_64.rpm      | HPE Ethernet 100Gb<br>2-port QSFP56<br>MCX623106AS-CDAT<br>Adapter  | 24.04-<br>0.6.6.1 | 24.04-<br>OFED.24.04.0.<br>6.6.1.rhel8u9 |
| 91 | HPE Mellanox RoCE (RDMA over<br>Converged Ethernet) ConnectX-4,<br>ConnectX-5 and ConnectX-6 Driver for<br>Red Hat Enterprise Linux 8 Update 9<br>(x86_64) | mlnx-ofa_kernel-<br>24.04-<br>OFED.24.04.0.6.6.1.rh<br>el8u9.x86_64.rpm      | HPE IB HDR100/EN<br>100Gb 2p QSFP56<br>Adptr                        | 24.04-<br>0.6.6.1 | 24.04-<br>OFED.24.04.0.<br>6.6.1.rhel8u9 |
| 92 | HPE Mellanox RoCE (RDMA over<br>Converged Ethernet) ConnectX-4,<br>ConnectX-5 and ConnectX-6 Driver for<br>Red Hat Enterprise Linux 8 Update 9<br>(x86_64) | kmod-mlnx-<br>ofa_kernel-24.04-<br>OFED.24.04.0.6.6.1.rh<br>el8u9.x86_64.rpm | MLX MCX631102<br>10/25GbE 2p SFP28<br>Adptr                         | 24.04-<br>0.6.6.1 | 24.04-<br>OFED.24.04.0.<br>6.6.1.rhel8u9 |
| 93 | HPE Mellanox RoCE (RDMA over<br>Converged Ethernet) ConnectX-4,<br>ConnectX-5 and ConnectX-6 Driver for<br>Red Hat Enterprise Linux 8 Update 9<br>(x86_64) | kmod-mlnx-<br>ofa_kernel-24.04-<br>OFED.24.04.0.6.6.1.rh<br>el8u9.x86_64.rpm | MLX MCX6314<br>10/25GbE 2p SFP28<br>OCP3 Adptr                      | 24.04-<br>0.6.6.1 | 24.04-<br>OFED.24.04.0.<br>6.6.1.rhel8u9 |
| 94 | HPE Mellanox RoCE (RDMA over<br>Converged Ethernet) ConnectX-4,<br>ConnectX-5 and ConnectX-6 Driver for<br>Red Hat Enterprise Linux 8 Update 9<br>(x86_64) | kmod-mlnx-<br>ofa_kernel-24.04-<br>OFED.24.04.0.6.6.1.rh<br>el8u9.x86_64.rpm | HPE 100GbE 1p<br>QSFP28 MCX515A-<br>CCAT Adptr                      | 24.04-<br>0.6.6.1 | 24.04-<br>OFED.24.04.0.<br>6.6.1.rhel8u9 |
| 95 | HPE Mellanox RoCE (RDMA over<br>Converged Ethernet) ConnectX-4,<br>ConnectX-5 and ConnectX-6 Driver for<br>Red Hat Enterprise Linux 8 Update 9<br>(x86_64) | kmod-mlnx-<br>ofa_kernel-24.04-<br>OFED.24.04.0.6.6.1.rh<br>el8u9.x86_64.rpm | HPE Ethernet 100Gb<br>2-port QSFP56<br>MCX623106AS-CDAT<br>Adapter  | 24.04-<br>0.6.6.1 | 24.04-<br>OFED.24.04.0.<br>6.6.1.rhel8u9 |
| 96 | HPE Mellanox RoCE (RDMA over<br>Converged Ethernet) ConnectX-4,<br>ConnectX-5 and ConnectX-6 Driver for<br>Red Hat Enterprise Linux 8 Update 9<br>(x86_64) | kmod-mlnx-<br>ofa_kernel-24.04-<br>OFED.24.04.0.6.6.1.rh<br>el8u9.x86_64.rpm | HPE IB HDR100/EN<br>100Gb 2p QSFP56<br>Adptr                        | 24.04-<br>0.6.6.1 | 24.04-<br>OFED.24.04.0.<br>6.6.1.rhel8u9 |
| 97 | Intel i350 Driver for Windows Server<br>2019                                                                                                               | cp061673.exe                                                                 | Intel I350-T4 Ethernet<br>1Gb 4-port BASE-T<br>Adapter for HPE      | 14.0.5.0          | 14.0.5.0                                 |
| 98 | Intel i350 Driver for Windows Server<br>2019                                                                                                               | cp061673.exe                                                                 | Intel I350-T4 Ethernet<br>1Gb 4-port BASE-T<br>OCP3 Adapter for HPE | 14.0.5.0          | 14.0.5.0                                 |
| 99 | Intel i350 Driver for Windows Server<br>2022                                                                                                               | cp061674.exe                                                                 | Intel I350-T4 Ethernet<br>1Gb 4-port BASE-T                         | 14.0.5.0          | 14.0.5.0                                 |

|     |                                                     |                                       |                                                                    |            |                                |
|-----|-----------------------------------------------------|---------------------------------------|--------------------------------------------------------------------|------------|--------------------------------|
|     |                                                     |                                       | Adapter for HPE                                                    |            |                                |
| 100 | Intel i350 Driver for Windows Server 2022           | cp061674.exe                          | Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE      | 14.0.5.0   | 14.0.5.0                       |
| 101 | Intel ice Drivers for Red Hat Enterprise Linux 8    | kmod-ice-1.14.11-1.rhel8u9.x86_64.rpm | Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE      | 1.14.11-1  | 1.14.11-1.rhel8u9              |
| 102 | Intel ice Drivers for Red Hat Enterprise Linux 8    | kmod-ice-1.14.11-1.rhel8u9.x86_64.rpm | Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE | 1.14.11-1  | 1.14.11-1.rhel8u9              |
| 103 | Intel ice Drivers for Red Hat Enterprise Linux 8    | kmod-ice-1.14.11-1.rhel8u9.x86_64.rpm | Intel E810-XXVDA2 adapter                                          | 1.14.11-1  | 1.14.11-1.rhel8u9              |
| 104 | Intel ice Drivers for Red Hat Enterprise Linux 8    | kmod-ice-1.14.11-1.rhel8u9.x86_64.rpm | Intel E810-XXVDA2 OCP3 adapter                                     | 1.14.11-1  | 1.14.11-1.rhel8u9              |
| 105 | Intel ice Drivers for Red Hat Enterprise Linux 8    | kmod-ice-1.14.11-1.rhel8u9.x86_64.rpm | Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE    | 1.14.11-1  | 1.14.11-1.rhel8u9              |
| 106 | Intel icea Driver for Microsoft Windows Server 2022 | cp061670.exe                          | Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE      | 1.15.121.0 | 1.15.121.0                     |
| 107 | Intel icea Driver for Microsoft Windows Server 2022 | cp061670.exe                          | Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE | 1.15.121.0 | 1.15.121.0                     |
| 108 | Intel icea Driver for Microsoft Windows Server 2022 | cp061670.exe                          | Intel E810-XXVDA2 adapter                                          | 1.15.121.0 | 1.15.121.0                     |
| 109 | Intel icea Driver for Microsoft Windows Server 2022 | cp061670.exe                          | Intel E810-XXVDA2 OCP3 adapter                                     | 1.15.121.0 | 1.15.121.0                     |
| 110 | Intel icea Driver for Microsoft Windows Server 2022 | cp061670.exe                          | Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE    | 1.15.121.0 | 1.15.121.0                     |
| 111 | Intel icea Driver for Windows Server 2019           | cp061669.exe                          | Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE      | 1.15.121.0 | 1.15.121.0                     |
| 112 | Intel icea Driver for Windows Server 2019           | cp061669.exe                          | Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE | 1.15.121.0 | 1.15.121.0                     |
| 113 | Intel icea Driver for Windows Server 2019           | cp061669.exe                          | Intel E810-XXVDA2 adapter                                          | 1.15.121.0 | 1.15.121.0                     |
| 114 | Intel icea Driver for Windows Server 2019           | cp061669.exe                          | Intel E810-XXVDA2 OCP3 adapter                                     | 1.15.121.0 | 1.15.121.0                     |
| 115 | Intel icea Driver for Windows Server 2019           | cp061669.exe                          | Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE    | 1.15.121.0 | 1.15.121.0                     |
| 116 | Intel icen Driver for VMware vSphere 7.0            | cp061667.zip                          | Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE      | 2024.09.00 | 1.14.2.0-10EM.702.0.0.17630552 |
| 117 | Intel icen Driver for VMware vSphere 7.0            | cp061667.zip                          | Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE | 2024.09.00 | 1.14.2.0-10EM.702.0.0.17630552 |
| 118 | Intel icen Driver for VMware vSphere 7.0            | cp061667.zip                          | Intel E810-XXVDA2 adapter                                          | 2024.09.00 | 1.14.2.0-10EM.702.0.0.17630552 |
| 119 | Intel icen Driver for VMware vSphere                | cp061667.zip                          | Intel E810-XXVDA2                                                  | 2024.09.00 | 1.14.2.0-                      |

|     |                                                                                                                   |              |                                                                    |              |                                        |
|-----|-------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------|--------------|----------------------------------------|
|     | 7.0                                                                                                               |              | OCP3 adapter                                                       |              | 10EM.702.0.0<br>.17630552              |
| 120 | Intel icen Driver for VMware vSphere 7.0                                                                          | cp061667.zip | Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE    | 2024.09.00   | 1.14.2.0-10EM.702.0.0<br>.17630552     |
| 121 | Intel icen Driver for VMware vSphere 8.0                                                                          | cp061668.zip | Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE      | 2024.09.00   | 1.14.2.0-10EM.800.1.0<br>.20613240     |
| 122 | Intel icen Driver for VMware vSphere 8.0                                                                          | cp061668.zip | Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE | 2024.09.00   | 1.14.2.0-10EM.800.1.0<br>.20613240     |
| 123 | Intel icen Driver for VMware vSphere 8.0                                                                          | cp061668.zip | Intel E810-XXVDA2 adapter                                          | 2024.09.00   | 1.14.2.0-10EM.800.1.0<br>.20613240     |
| 124 | Intel icen Driver for VMware vSphere 8.0                                                                          | cp061668.zip | Intel E810-XXVDA2 OCP3 adapter                                     | 2024.09.00   | 1.14.2.0-10EM.800.1.0<br>.20613240     |
| 125 | Intel icen Driver for VMware vSphere 8.0                                                                          | cp061668.zip | Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE    | 2024.09.00   | 1.14.2.0-10EM.800.1.0<br>.20613240     |
| 126 | Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2019                                                   | cp061099.exe | HPE Ethernet 100Gb 2-port QSFP56 MCX623106AS-CDAT Adapter          | 24.4.26429.0 | 24.4.26429.0                           |
| 127 | Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2019                                                   | cp061099.exe | MLX MCX631102 10/25GbE 2p SFP28 Adptr                              | 24.4.26429.0 | 24.4.26429.0                           |
| 128 | Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2019                                                   | cp061099.exe | MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr                           | 24.4.26429.0 | 24.4.26429.0                           |
| 129 | Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2022                                                   | cp061098.exe | HPE Ethernet 100Gb 2-port QSFP56 MCX623106AS-CDAT Adapter          | 24.4.26429.0 | 24.4.26429.0                           |
| 130 | Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2022                                                   | cp061098.exe | MLX MCX631102 10/25GbE 2p SFP28 Adptr                              | 24.4.26429.0 | 24.4.26429.0                           |
| 131 | Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2022                                                   | cp061098.exe | MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr                           | 24.4.26429.0 | 24.4.26429.0                           |
| 132 | Nvidia ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 "nmlx5_en" Driver Component for VMware ESXi 7.0 Update 3 | cp061484.zip | MLX MCX631102 10/25GbE 2p SFP28 Adptr                              | 2024.05.28   | 4.22.73.1006-10EM.703.0.0<br>.18644231 |
| 133 | Nvidia ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 "nmlx5_en" Driver Component for VMware ESXi 7.0 Update 3 | cp061484.zip | MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr                           | 2024.05.28   | 4.22.73.1006-10EM.703.0.0<br>.18644231 |
| 134 | Nvidia ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 "nmlx5_en" Driver Component for VMware ESXi 7.0 Update 3 | cp061484.zip | HPE 100GbE 1p QSFP28 MCX515A-CCAT Adptr                            | 2024.05.28   | 4.22.73.1006-10EM.703.0.0<br>.18644231 |
| 135 | Nvidia ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 "nmlx5_en" Driver Component for VMware ESXi 7.0 Update 3 | cp061484.zip | HPE Ethernet 100Gb 2-port QSFP56 MCX623106AS-CDAT Adapter          | 2024.05.28   | 4.22.73.1006-10EM.703.0.0<br>.18644231 |
| 136 | Nvidia ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 "nmlx5_en" Driver Component for VMware ESXi 7.0 Update 3 | cp061484.zip | HPE IB HDR100/EN 100Gb 2p QSFP56 Adptr                             | 2024.05.28   | 4.22.73.1006-10EM.703.0.0<br>.18644231 |

## 6.2.5 Driver – Security

| No. | Description                                               | Package filename | Device | Package Version | Firmware/Driver version |
|-----|-----------------------------------------------------------|------------------|--------|-----------------|-------------------------|
| 137 | Intel QuickAssist Technology driver for Microsoft Windows | cp062294.exe     | -      | 2.3.0.6         | 2.3.0.6                 |

## 6.2.6 Driver – Storage Controller

| No. | Description                                                                                                                                                              | Package filename                                     | Device             | Package Version | Firmware/Driver version           |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------|-----------------|-----------------------------------|
| 138 | HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen11 controller Driver for 64-bit Red Hat Enterprise Linux 8 | kmmod-megaraid_sas-07.726.04.00_rhel8u9-1.x86_64.rpm | HPE_MR416i-o_Gen11 | 07.726.04.00    | 07.726.04.00_rhel8u9-1            |
| 139 | HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen11 controller Driver for 64-bit Red Hat Enterprise Linux 8 | kmmod-megaraid_sas-07.726.04.00_rhel8u9-1.x86_64.rpm | HPE_MR416i-p_Gen11 | 07.726.04.00    | 07.726.04.00_rhel8u9-1            |
| 140 | HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen11 controller Driver for 64-bit Red Hat Enterprise Linux 8 | kmmod-megaraid_sas-07.726.04.00_rhel8u9-1.x86_64.rpm | HPE_MR216i-o_Gen11 | 07.726.04.00    | 07.726.04.00_rhel8u9-1            |
| 141 | HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen11 controller Driver for 64-bit Red Hat Enterprise Linux 8 | kmmod-megaraid_sas-07.726.04.00_rhel8u9-1.x86_64.rpm | HPE_MR408i-o_Gen11 | 07.726.04.00    | 07.726.04.00_rhel8u9-1            |
| 142 | HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen11 controller Driver for 64-bit Red Hat Enterprise Linux 8 | kmmod-megaraid_sas-07.726.04.00_rhel8u9-1.x86_64.rpm | HPE_MR216i-p_Gen11 | 07.726.04.00    | 07.726.04.00_rhel8u9-1            |
| 143 | HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller (64-bit) Driver for vSphere 7.0                                                         | cp057482.zip                                         | HPE_MR416i-o_Gen11 | 2023.12.01      | 7.726.02.00-10EM.700.1.0.15843807 |
| 144 | HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller (64-bit) Driver for vSphere 7.0                                                         | cp057482.zip                                         | HPE_MR416i-p_Gen11 | 2023.12.01      | 7.726.02.00-10EM.700.1.0.15843807 |
| 145 | HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller (64-bit) Driver for vSphere 7.0                                                         | cp057482.zip                                         | HPE_MR216i-o_Gen11 | 2023.12.01      | 7.726.02.00-10EM.700.1.0.15843807 |
| 146 | HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller (64-bit) Driver for vSphere 7.0                                                         | cp057482.zip                                         | HPE_MR408i-o_Gen11 | 2023.12.01      | 7.726.02.00-10EM.700.1.0.15843807 |
| 147 | HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller (64-bit) Driver for vSphere 7.0                                                         | cp057482.zip                                         | HPE_MR216i-p_Gen11 | 2023.12.01      | 7.726.02.00-10EM.700.1.0.15843807 |
| 148 | HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller (64-bit) Driver for vSphere 8.0                                                         | cp057484.zip                                         | HPE_MR416i-o_Gen11 | 2023.12.01      | 7.726.02.00-10EM.800.1.0.20613240 |
| 149 | HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller (64-bit) Driver for vSphere 8.0                                                         | cp057484.zip                                         | HPE_MR416i-p_Gen11 | 2023.12.01      | 7.726.02.00-10EM.800.1.0.20613240 |
| 150 | HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and                                                                                                          | cp057484.zip                                         | HPE_MR216i-o_Gen11 | 2023.12.01      | 7.726.02.00-10EM.800.1.0          |

|     |                                                                                                                                 |              |                                             |            |                                        |
|-----|---------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------|------------|----------------------------------------|
|     | Gen11 controller (64-bit) Driver for vSphere 8.0                                                                                |              |                                             |            | .20613240                              |
| 151 | HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller (64-bit) Driver for vSphere 8.0                | cp057484.zip | HPE_MR408i-o_Gen11                          | 2023.12.01 | 7.726.02.00-10EM.800.1.0 .20613240     |
| 152 | HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller (64-bit) Driver for vSphere 8.0                | cp057484.zip | HPE_MR216i-p_Gen11                          | 2023.12.01 | 7.726.02.00-10EM.800.1.0 .20613240     |
| 153 | HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller Driver for Microsoft Windows 2019 edition      | cp057467.exe | HPE_MR416i-o_Gen11                          | 7.726.1.0  | 7.726.1.0                              |
| 154 | HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller Driver for Microsoft Windows 2019 edition      | cp057467.exe | HPE_MR416i-p_Gen11                          | 7.726.1.0  | 7.726.1.0                              |
| 155 | HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller Driver for Microsoft Windows 2019 edition      | cp057467.exe | HPE_MR216i-o_Gen11                          | 7.726.1.0  | 7.726.1.0                              |
| 156 | HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller Driver for Microsoft Windows 2019 edition      | cp057467.exe | HPE_MR408i-o_Gen11                          | 7.726.1.0  | 7.726.1.0                              |
| 157 | HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller Driver for Microsoft Windows 2019 edition      | cp057467.exe | HPE_MR216i-p_Gen11                          | 7.726.1.0  | 7.726.1.0                              |
| 158 | HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller driver for Microsoft Windows 2022 edition      | cp057468.exe | HPE_MR416i-o_Gen11                          | 7.726.1.0  | 7.726.1.0                              |
| 159 | HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller driver for Microsoft Windows 2022 edition      | cp057468.exe | HPE_MR416i-p_Gen11                          | 7.726.1.0  | 7.726.1.0                              |
| 160 | HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller driver for Microsoft Windows 2022 edition      | cp057468.exe | HPE_MR216i-o_Gen11                          | 7.726.1.0  | 7.726.1.0                              |
| 161 | HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller driver for Microsoft Windows 2022 edition      | cp057468.exe | HPE_MR408i-o_Gen11                          | 7.726.1.0  | 7.726.1.0                              |
| 162 | HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller driver for Microsoft Windows 2022 edition      | cp057468.exe | HPE_MR216i-p_Gen11                          | 7.726.1.0  | 7.726.1.0                              |
| 163 | HPE ProLiant Gen10 Smart Array and Gen10 Plus and Gen11 Smart RAID Controller Driver for VMware vSphere 7.0 (Driver Component). | cp059501.zip | HPE Smart Array E208e-p SR Gen10 Controller | 2024.10.01 | 70.4672.0.104 - 10EM.700.1.0 .15843807 |
| 164 | HPE ProLiant Gen10 Smart Array and Gen10 Plus and Gen11 Smart RAID Controller Driver for VMware vSphere 7.0 (Driver Component). | cp059501.zip | HPE SR932i-p Gen11                          | 2024.10.01 | 70.4672.0.104 - 10EM.700.1.0 .15843807 |
| 165 | HPE ProLiant Gen10 Smart Array and Gen10 Plus and Gen11 Smart RAID Controller Driver for VMware vSphere 8.0 (Driver Component). | cp059502.zip | HPE Smart Array E208e-p SR Gen10 Controller | 2024.10.01 | 80.4672.0.104 - 10EM.800.1.0 .20613240 |
| 166 | HPE ProLiant Gen10 Smart Array and Gen10 Plus and Gen11 Smart RAID Controller Driver for VMware vSphere 8.0 (Driver Component). | cp059502.zip | HPE SR932i-p Gen11                          | 2024.10.01 | 80.4672.0.104 - 10EM.800.1.0 .20613240 |

|     |                                                                                                                        |                                             |                                             |                 |                    |
|-----|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------------------------------------|-----------------|--------------------|
| 167 | HPE ProLiant Gen10, Gen10Plus and Gen11 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 8 (64-bit) | kmod-smartpqi-2.1.30-031.rhel8u9.x86_64.rpm | HPE Smart Array E208e-p SR Gen10 Controller | 2.1.30-031      | 2.1.30-031.rhel8u9 |
| 168 | HPE ProLiant Gen10, Gen10Plus and Gen11 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 8 (64-bit) | kmod-smartpqi-2.1.30-031.rhel8u9.x86_64.rpm | HPE SR932i-p Gen11                          | 2.1.30-031      | 2.1.30-031.rhel8u9 |
| 169 | HPE Smart Array Gen10, Gen10Plus and Gen11 Controller Driver for Windows Server 2019 and Windows Server 2022           | cp059500.exe                                | HPE Smart Array E208e-p SR Gen10 Controller | 1010.108.0.1015 | 1010.108.0.1015    |
| 170 | HPE Smart Array Gen10, Gen10Plus and Gen11 Controller Driver for Windows Server 2019 and Windows Server 2022           | cp059500.exe                                | HPE SR932i-p Gen11                          | 1010.108.0.1015 | 1010.108.0.1015    |

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

| No. | Description                                                                                                | Package filename                              | Device                                                      | Package Version | Firmware/Driver version |
|-----|------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------|-----------------|-------------------------|
| 171 | HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2019 | cp061885.exe                                  | HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter   | 14.4.313.0      | 14.4.313.0              |
| 172 | HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2019 | cp061885.exe                                  | HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter | 14.4.313.0      | 14.4.313.0              |
| 173 | HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2019 | cp061885.exe                                  | HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter      | 14.4.313.0      | 14.4.313.0              |
| 174 | HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2019 | cp061885.exe                                  | HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter      | 14.4.313.0      | 14.4.313.0              |
| 175 | HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2022 | cp061886.exe                                  | HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter   | 14.4.313.0      | 14.4.313.0              |
| 176 | HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2022 | cp061886.exe                                  | HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter | 14.4.313.0      | 14.4.313.0              |
| 177 | HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2022 | cp061886.exe                                  | HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter      | 14.4.313.0      | 14.4.313.0              |
| 178 | HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2022 | cp061886.exe                                  | HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter      | 14.4.313.0      | 14.4.313.0              |
| 179 | HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2019 | cp059839.exe                                  | HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter      | 9.4.10.20       | 9.4.10.20               |
| 180 | HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2019 | cp059839.exe                                  | HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter      | 9.4.10.20       | 9.4.10.20               |
| 181 | HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2022 | cp059840.exe                                  | HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter      | 9.4.10.20       | 9.4.10.20               |
| 182 | HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2022 | cp059840.exe                                  | HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter      | 9.4.10.20       | 9.4.10.20               |
| 183 | Red Hat Enterprise Linux 8 Update 9 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters       | kmod-elx-lpfc-14.4.329.9-1.rhel8u9.x86_64.rpm | HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter   | 14.4.329.9      | 14.4.329.9-1.rhel8u9    |
| 184 | Red Hat Enterprise Linux 8 Update 9 Server Fibre Channel Driver Kit for HPE                                | kmod-elx-lpfc-14.4.329.9-                     | HPE SN1700E 64Gb Single Port Fibre                          | 14.4.329.9      | 14.4.329.9-1.rhel8u9    |

|     |                                                                                                      |                                                       |                                                        |                |                          |
|-----|------------------------------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|----------------|--------------------------|
|     | Emulex Host Bus Adapters                                                                             | 1.rhel8u9.x86_64.rpm                                  | Channel Host Bus Adapter                               |                |                          |
| 185 | Red Hat Enterprise Linux 8 Update 9 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters | kmod-elx-lpfc-14.4.329.9-1.rhel8u9.x86_64.rpm         | HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter | 14.4.329.9     | 14.4.329.9-1.rhel8u9     |
| 186 | Red Hat Enterprise Linux 8 Update 9 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters | kmod-elx-lpfc-14.4.329.9-1.rhel8u9.x86_64.rpm         | HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter | 14.4.329.9     | 14.4.329.9-1.rhel8u9     |
| 187 | Red Hat Enterprise Linux 8 Update 9 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapter  | kmod-qlgc-qla2xxx-10.02.12.01_k1-1.rhel8u9.x86_64.rpm | HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter | 10.02.12.01-k1 | 10.02.12.01_k1-1.rhel8u9 |
| 188 | Red Hat Enterprise Linux 8 Update 9 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapter  | kmod-qlgc-qla2xxx-10.02.12.01_k1-1.rhel8u9.x86_64.rpm | HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter | 10.02.12.01-k1 | 10.02.12.01_k1-1.rhel8u9 |

## 6.2.8 Driver – System Management

| No. | Description                                                              | Package filename | Device | Package Version | Firmware/Driver version |
|-----|--------------------------------------------------------------------------|------------------|--------|-----------------|-------------------------|
| 189 | Broadcom PCIe Switch Management Driver for Microsoft Windows Server 2019 | cp060564.exe     | -      | 2.61.54.0 (B)   | 2.61.54.0               |
| 190 | iLO 6 Automatic Server Recovery Driver for Microsoft Windows Server 2019 | cp059558.exe     | -      | 4.7.1.0 (D)     | 4.7.1.0                 |
| 191 | iLO 6 Automatic Server Recovery Driver for Microsoft Windows Server 2022 | cp061934.exe     | -      | 4.7.1.0 (E)     | 4.7.1.0                 |
| 192 | iLO 6 Channel Interface Driver for Microsoft Windows Server 2019         | cp059557.exe     | -      | 4.7.1.0 (D)     | 4.7.1.0                 |
| 193 | iLO 6 Channel Interface Driver for Microsoft Windows Server 2022         | cp061935.exe     | -      | 4.7.1.0 (E)     | 4.7.1.0                 |

## 6.2.9 Driver – Video

| No. | Description                                                                             | Package filename | Device | Package Version | Firmware/Driver version |
|-----|-----------------------------------------------------------------------------------------|------------------|--------|-----------------|-------------------------|
| 194 | Matrox G200eH3 Video Controller Driver for Microsoft Windows Server 2019, 2022 and 2025 | cp062503.exe     | -      | 9.15.1.268      | 9.15.1.268              |

## 6.2.10 Firmware – Lights-Out Management

| No. | Description                                        | Package filename                             | Device | Package Version | Firmware/Driver version |
|-----|----------------------------------------------------|----------------------------------------------|--------|-----------------|-------------------------|
| 195 | Language Pack - Japanese                           | firmware-ilo6-lpk-jari11-1.63-1.1.x86_64.rpm | -      | 1.63 (A)        | 1.63.11                 |
| 196 | Language Pack - Japanese                           | cp063387.exe                                 | -      | 1.63            | 1.63.11                 |
| 197 | Online ROM Flash Component for Linux - iLO 6       | firmware-ilo6-1.63-1.1.x86_64.rpm            | -      | 1.63            | 1.63 Sep 13 2024        |
| 198 | Online ROM Flash Component for Windows x64 - iLO 6 | cp063592.exe                                 | -      | 1.63 (a)        | 1.63 Sep 27 2024        |
| 199 | Online ROM Flash Firmware Package - iLO 6          | ilo6_163.fwpkg                               | -      | 1.63 (a)        | 1.63 Sep 27 2024        |

## 6.2.11 Firmware – Network

| No. | Description                                     | Package filename         | Device                            | Package Version | Firmware/Driver version |
|-----|-------------------------------------------------|--------------------------|-----------------------------------|-----------------|-------------------------|
| 200 | Broadcom Firmware Package for BCM5741x adapters | bcm230.1.123.0.pup.fwpkg | BCM 57414 10/25GbE 2p SFP28 Adptr | 230.1.123.0     | 230.1.123.0             |



|     |                                                                                   |                                                           |                                                                    |             |             |
|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------|-------------|-------------|
| 201 | Broadcom Firmware Package for BCM5741x adapters                                   | bcm230.1.123.0.pup.fwpkg                                  | BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr                             | 230.1.123.0 | 230.1.123.0 |
| 202 | Broadcom Firmware Package for BCM5741x adapters                                   | bcm230.1.123.0.pup.fwpkg                                  | BCM 57416 10GbE 2p BASE-T Adptr                                    | 230.1.123.0 | 230.1.123.0 |
| 203 | Broadcom Firmware Package for BCM5741x adapters                                   | bcm230.1.123.0.pup.fwpkg                                  | BCM 57416 10GbE 2p BASE-T OCP3 Adptr                               | 230.1.123.0 | 230.1.123.0 |
| 204 | Broadcom Firmware Package for BCM5741x adapters                                   | bcm230.1.123.0.pup.fwpkg                                  | BCM 57412 10GbE 2p SFP+ Adptr                                      | 230.1.123.0 | 230.1.123.0 |
| 205 | Broadcom Firmware Package for BCM5741x adapters                                   | bcm230.1.123.0.pup.fwpkg                                  | BCM 57412 10GbE 2p SFP+ OCP3 Adptr                                 | 230.1.123.0 | 230.1.123.0 |
| 206 | Broadcom Firmware Package for BCM5750x adapters                                   | bcm230.1.123.0_Thor.pup.fwpkg                             | BCM 57504 10/25GbE 4p SFP28 Adptr                                  | 230.1.123.0 | 230.1.123.0 |
| 207 | Broadcom Firmware Package for BCM5750x adapters                                   | bcm230.1.123.0_Thor.pup.fwpkg                             | BCM 57504 10/25GbE 4p SFP28 OCP3 Adptr                             | 230.1.123.0 | 230.1.123.0 |
| 208 | Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64                     | firmware-nic-bcm-open-2.38.0-1.1.x86_64.rpm               | Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE        | 2.38.0      | 20.30.41    |
| 209 | Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64                     | firmware-nic-bcm-open-2.38.0-1.1.x86_64.rpm               | Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE   | 2.38.0      | 20.30.41    |
| 210 | Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64                     | firmware-nic-bcm-open-2.38.0-1.1.x86_64.rpm               | Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE    | 2.38.0      | 20.30.41    |
| 211 | Broadcom NX1 Online Firmware Upgrade Utility for VMware                           | CP062085.zip                                              | Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE        | 1.39.0      | 20.30.41    |
| 212 | Broadcom NX1 Online Firmware Upgrade Utility for VMware                           | CP062085.zip                                              | Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE   | 1.39.0      | 20.30.41    |
| 213 | Broadcom NX1 Online Firmware Upgrade Utility for VMware                           | CP062085.zip                                              | Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE    | 1.39.0      | 20.30.41    |
| 214 | Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions      | cp062082.exe                                              | Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE        | 5.4.2.0     | 20.30.41    |
| 215 | Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions      | cp062082.exe                                              | Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE   | 5.4.2.0     | 20.30.41    |
| 216 | Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions      | cp062082.exe                                              | Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE    | 5.4.2.0     | 20.30.41    |
| 217 | Intel Firmware Package For E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter        | HPE_E810_CQDA2_4p50_PLDMoMCTP_8001D8B6.fwpkg              | Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE      | 4.50        | 4.50        |
| 218 | Intel Firmware Package For E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter   | HPE_E810_CQDA2_OC_P_4p50_NCSlwPLDMoMCTP_8001D8BC.fwpkg    | Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE | 4.50        | 4.50        |
| 219 | Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter      | HPE_E810_XXVDA2_SD_4p50_PLDMoMCTP_8001D8BA.fwpkg          | Intel E810-XXVDA2 adapter                                          | 4.50        | 4.50        |
| 220 | Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter | HPE_E810_XXVDA2_SD_OCP_4p50_NCSlwPLDMoMCTP_8001D8B3.fwpkg | Intel E810-XXVDA2 OCP3 adapter                                     | 4.50        | 4.50        |
| 221 | Intel Firmware Package For E810-                                                  | HPE_E810_XXVDA4_F                                         | Intel E810-XXVDA4                                                  | 4.50        | 4.50        |

|     |                                                                                                                                                                         |                                                |                                                               |            |            |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------|------------|------------|
|     | XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter                                                                                                                            | H_4p50_PLDMoMCTP_8001D8B5.fwpkg                | Ethernet 10/25Gb 4-port SFP28 Adapter for HPE                 |            |            |
| 222 | Intel Online Firmware Upgrade Utility for Linux x86_64                                                                                                                  | firmware-nic-is-intel-1.31.0-1.1.x86_64.rpm    | Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE      | 1.31.0     | 1.3602.0   |
| 223 | Intel Online Firmware Upgrade Utility for Linux x86_64                                                                                                                  | firmware-nic-is-intel-1.31.0-1.1.x86_64.rpm    | Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE | 1.31.0     | 1.3602.0   |
| 224 | Intel Online Firmware Upgrade Utility for VMware                                                                                                                        | CP061688.zip                                   | Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE      | 3.24.0     | 1.3602.0   |
| 225 | Intel Online Firmware Upgrade Utility for VMware                                                                                                                        | CP061688.zip                                   | Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE | 3.24.0     | 1.3602.0   |
| 226 | Intel Online Firmware Upgrade Utility for Windows Server x64 Editions                                                                                                   | cp061690.exe                                   | Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE      | 5.4.2.0    | 1.3602.0   |
| 227 | Intel Online Firmware Upgrade Utility for Windows Server x64 Editions                                                                                                   | cp061690.exe                                   | Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE | 5.4.2.0    | 1.3602.0   |
| 228 | Mellanox Firmware Package (FWPKG) - Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE                                                             | 26_41_1000-MCX631102AS-ADA_Ax.pldm.fwpkg       | MLX MCX631102 10/25GbE 2p SFP28 Adptr                         | 26.41.1000 | 26.41.1000 |
| 229 | Mellanox Firmware Package (FWPKG) - Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE                                                        | 26_41_1000-MCX631432AS-ADA_Ax.pldm.fwpkg       | MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr                      | 26.41.1000 | 26.41.1000 |
| 230 | Mellanox Firmware Package (FWPKG) for HPE Ethernet 100Gb 1-port QSFP28 PCIe3 x16 MCX515A-CCAT Adapter : HPE part numbers P31246-B21 and P31246-H21                      | 16_35_4030-MCX515A-CCA_HPE_Ax.pldm.fw pkg      | HPE 100GbE 1p QSFP28 MCX515A-CCAT Adptr                       | 16.35.4030 | 16.35.4030 |
| 231 | Mellanox Firmware Package (FWPKG) for HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe4 x16 MCX653106A-ECAT Adapter : HPE part numbers P23666-B21 and P23666-H21 | 20_41_1000-MCX653106A-ECA_HPE_Ax.pldm.fw pkg   | HPE IB HDR100/EN 100Gb 2p QSFP56 Adptr                        | 20.41.1000 | 20.41.1000 |
| 232 | Mellanox Firmware Package (FWPKG) for Mellanox MCX623106AS-CDAT Ethernet 100Gb 2-port QSFP56 Adapter for HPE                                                            | 22_41_1000-MCX623106AS-CDA_Ax.pldm.fwpkg       | HPE Ethernet 100Gb 2-port QSFP56 MCX623106AS-CDAT Adapter     | 22.41.1000 | 22.41.1000 |
| 233 | NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR 1-port OSFP PCIe5 x16 MCX75310AAS-NEAT Adapter : HPE part numbers P45641-B21 and P45641-H21                      | 28_41_1000-MCX75310AAS-NEAT_HPE_Ax.pldm.fw pkg | HPE IB NDR 1p OSFP MCX75310AAS Adptr                          | 28.41.1000 | 28.41.1000 |

## 6.2.12 Firmware - PCIe NVMe Storage Disk

| No. | Description                                                                                                                                                         | Package filename                            | Device        | Package Version | Firmware/Driver version |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------|-----------------|-------------------------|
| 234 | Online NVMe SSD Flash Component for Linux (x64) - EO000400KYDKV and EO000800KYDLA Drives                                                                            | firmware-hdd-6758a46eb7-HPK4-4.1.x86_64.rpm | EO000800KYDLA | HPK4 (D)        | HPK4                    |
| 235 | Online NVMe SSD Flash Component for Linux (x64) - EO000400KYDKV and EO000800KYDLA Drives                                                                            | firmware-hdd-6758a46eb7-HPK4-4.1.x86_64.rpm | EO000400KYDKV | HPK4 (D)        | HPK4                    |
| 236 | Online NVMe SSD Flash Component for Linux (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives | firmware-hdd-a27c95663d-HPK5-3.1.x86_64.rpm | MO001600KYDMU | HPK5 (C)        | HPK5                    |
| 237 | Online NVMe SSD Flash Component for Linux (x64) - VO001920KYDMT,                                                                                                    | firmware-hdd-a27c95663d-HPK5-               | MO006400KYDND | HPK5 (C)        | HPK5                    |

|     |                                                                                                                                                                     |                                             |               |          |      |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------|----------|------|
|     | VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives                                                                  | 3.1.x86_64.rpm                              |               |          |      |
| 238 | Online NVMe SSD Flash Component for Linux (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives | firmware-hdd-a27c95663d-HPK5-3.1.x86_64.rpm | VO015360KYDNB | HPK5 (C) | HPK5 |
| 239 | Online NVMe SSD Flash Component for Linux (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives | firmware-hdd-a27c95663d-HPK5-3.1.x86_64.rpm | VO007680KYDNA | HPK5 (C) | HPK5 |
| 240 | Online NVMe SSD Flash Component for Linux (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives | firmware-hdd-a27c95663d-HPK5-3.1.x86_64.rpm | MO003200KYDNC | HPK5 (C) | HPK5 |
| 241 | Online NVMe SSD Flash Component for Linux (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives | firmware-hdd-a27c95663d-HPK5-3.1.x86_64.rpm | VO001920KYDMT | HPK5 (C) | HPK5 |
| 242 | Online NVMe SSD Flash Component for Linux (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives | firmware-hdd-a27c95663d-HPK5-3.1.x86_64.rpm | VO003840KYDMV | HPK5 (C) | HPK5 |
| 243 | Online NVMe SSD Flash Component for VMware ESXi - EO000400KYDKV and EO000800KYDLA Drives                                                                            | CP061553.zip                                | EO000800KYDLA | HPK4 (C) | HPK4 |
| 244 | Online NVMe SSD Flash Component for VMware ESXi - EO000400KYDKV and EO000800KYDLA Drives                                                                            | CP061553.zip                                | EO000400KYDKV | HPK4 (C) | HPK4 |
| 245 | Online NVMe SSD Flash Component for VMware ESXi - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives | CP061338.zip                                | VO001920KYDMT | HPK5 (B) | HPK5 |
| 246 | Online NVMe SSD Flash Component for VMware ESXi - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives | CP061338.zip                                | VO003840KYDMV | HPK5 (B) | HPK5 |
| 247 | Online NVMe SSD Flash Component for VMware ESXi - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives | CP061338.zip                                | MO001600KYDMU | HPK5 (B) | HPK5 |
| 248 | Online NVMe SSD Flash Component for VMware ESXi - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives | CP061338.zip                                | MO006400KYDND | HPK5 (B) | HPK5 |
| 249 | Online NVMe SSD Flash Component for VMware ESXi - VO001920KYDMT,                                                                                                    | CP061338.zip                                | VO015360KYDNB | HPK5 (B) | HPK5 |

|     |                                                                                                                                                                       |                                    |               |          |      |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------|----------|------|
|     | VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives                                                                    |                                    |               |          |      |
| 250 | Online NVMe SSD Flash Component for VMware ESXi - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives   | CP061338.zip                       | VO007680KYDNA | HPK5 (B) | HPK5 |
| 251 | Online NVMe SSD Flash Component for VMware ESXi - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives   | CP061338.zip                       | MO003200KYDNC | HPK5 (B) | HPK5 |
| 252 | Online NVMe SSD Flash Component for Windows (x64) - EO000400KYDKV and EO000800KYDLA Drives                                                                            | cp061543.exe                       | EO000800KYDLA | HPK4 (C) | HPK4 |
| 253 | Online NVMe SSD Flash Component for Windows (x64) - EO000400KYDKV and EO000800KYDLA Drives                                                                            | cp061543.exe                       | EO000400KYDKV | HPK4 (C) | HPK4 |
| 254 | Online NVMe SSD Flash Component for Windows (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives | cp061409.exe                       | MO001600KYDMU | HPK5 (B) | HPK5 |
| 255 | Online NVMe SSD Flash Component for Windows (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives | cp061409.exe                       | MO006400KYDND | HPK5 (B) | HPK5 |
| 256 | Online NVMe SSD Flash Component for Windows (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives | cp061409.exe                       | VO015360KYDNB | HPK5 (B) | HPK5 |
| 257 | Online NVMe SSD Flash Component for Windows (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives | cp061409.exe                       | VO007680KYDNA | HPK5 (B) | HPK5 |
| 258 | Online NVMe SSD Flash Component for Windows (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives | cp061409.exe                       | MO003200KYDNC | HPK5 (B) | HPK5 |
| 259 | Online NVMe SSD Flash Component for Windows (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives | cp061409.exe                       | VO001920KYDMT | HPK5 (B) | HPK5 |
| 260 | Online NVMe SSD Flash Component for Windows (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives | cp061409.exe                       | VO003840KYDMV | HPK5 (B) | HPK5 |
| 261 | Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR,                                                                                                 | SKHynix_PE81X0_KPE 81X0AHPK2.fwpkg | MO000800KXPRV | HPK2     | HPK2 |

|     |                                                                                                                                                                                  |                                    |               |      |      |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------|------|------|
|     | MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ                                                                                      |                                    |               |      |      |
| 262 | Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ                | SKHynix_PE81X0_KPE 81X0AHPK2.fwpkg | MO001600KXPTR | HPK2 | HPK2 |
| 263 | Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ                | SKHynix_PE81X0_KPE 81X0AHPK2.fwpkg | MO003200KXPTT | HPK2 | HPK2 |
| 264 | Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ                | SKHynix_PE81X0_KPE 81X0AHPK2.fwpkg | MO006400KXPTU | HPK2 | HPK2 |
| 265 | Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ                | SKHynix_PE81X0_KPE 81X0AHPK2.fwpkg | VO000960KXPRU | HPK2 | HPK2 |
| 266 | Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ                | SKHynix_PE81X0_KPE 81X0AHPK2.fwpkg | VO001920KXPTN | HPK2 | HPK2 |
| 267 | Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ                | SKHynix_PE81X0_KPE 81X0AHPK2.fwpkg | VO003840KXPTP | HPK2 | HPK2 |
| 268 | Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ                | SKHynix_PE81X0_KPE 81X0AHPK2.fwpkg | VO007680KXPTQ | HPK2 | HPK2 |
| 269 | Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ | Kioxia_CD8_KACD8AL SHPK2.fwpkg     | MO000800KXUJT | HPK2 | HPK2 |
| 270 | Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ | Kioxia_CD8_KACD8AL SHPK2.fwpkg     | MO001600KXUJU | HPK2 | HPK2 |
| 271 | Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ | Kioxia_CD8_KACD8AL SHPK2.fwpkg     | MO003200KXUJV | HPK2 | HPK2 |
| 272 | Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ | Kioxia_CD8_KACD8AL SHPK2.fwpkg     | MO006400KXUKA | HPK2 | HPK2 |
| 273 | Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP,                                                | Kioxia_CD8_KACD8AL SHPK2.fwpkg     | VO000960KXUJN | HPK2 | HPK2 |

|     |                                                                                                                                                                                  |                                             |               |      |      |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------|------|------|
|     | VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ                                                                                                                                   |                                             |               |      |      |
| 274 | Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ | Kioxia_CD8_KACD8AL SHPK2.fwpkg              | VO001920KXUJP | HPK2 | HPK2 |
| 275 | Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ | Kioxia_CD8_KACD8AL SHPK2.fwpkg              | VO003840KXUJQ | HPK2 | HPK2 |
| 276 | Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ | Kioxia_CD8_KACD8AL SHPK2.fwpkg              | VO007680KXUJR | HPK2 | HPK2 |
| 277 | Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ | Kioxia_CD8_KACD8AL SHPK2.fwpkg              | VO015360KYGZQ | HPK2 | HPK2 |
| 278 | Universal Firmware Package for Drives - MO000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP | Micron_7500_Micron_7500_M7500ALLHPK 1.fwpkg | MO006400KYDZU | HPK1 | HPK1 |
| 279 | Universal Firmware Package for Drives - MO000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP | Micron_7500_Micron_7500_M7500ALLHPK 1.fwpkg | MO003200KYDZT | HPK1 | HPK1 |
| 280 | Universal Firmware Package for Drives - MO000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP | Micron_7500_Micron_7500_M7500ALLHPK 1.fwpkg | MO001600KYDZR | HPK1 | HPK1 |
| 281 | Universal Firmware Package for Drives - MO000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP | Micron_7500_Micron_7500_M7500ALLHPK 1.fwpkg | MO000800KYDZK | HPK1 | HPK1 |
| 282 | Universal Firmware Package for Drives - MO000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP | Micron_7500_Micron_7500_M7500ALLHPK 1.fwpkg | VO007680KYDZP | HPK1 | HPK1 |
| 283 | Universal Firmware Package for Drives - MO000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP | Micron_7500_Micron_7500_M7500ALLHPK 1.fwpkg | VO003840KYDZN | HPK1 | HPK1 |
| 284 | Universal Firmware Package for Drives - MO000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL,                                                | Micron_7500_Micron_7500_M7500ALLHPK 1.fwpkg | VO001920KYDZL | HPK1 | HPK1 |

|     |                                                                                                                                                                                  |                                             |               |      |      |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------|------|------|
|     | VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP                                                                                                                                   |                                             |               |      |      |
| 285 | Universal Firmware Package for Drives - MO000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP | Micron_7500_Micron_7500_M7500ALLHPK 1.fwpkg | VO000960KYDZH | HPK1 | HPK1 |
| 286 | Universal Firmware Package for Drives - MO000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP | Micron_7500_Micron_7500_M7500ALLHPK 1.fwpkg | VO001536KYDZQ | HPK1 | HPK1 |
| 287 | Universal Firmware Package for Drives - MO001600KZYWU, MO003200KZYXB, MO006400KZYXC, VO001920KZYWT, VO003840KZYWV and VO007680KZYXA                                              | Solidigm_P5x20_4IAA HPK5.fwpkg              | MO001600KZYWU | HPK5 | HPK5 |
| 288 | Universal Firmware Package for Drives - MO001600KZYWU, MO003200KZYXB, MO006400KZYXC, VO001920KZYWT, VO003840KZYWV and VO007680KZYXA                                              | Solidigm_P5x20_4IAA HPK5.fwpkg              | MO003200KZYXB | HPK5 | HPK5 |
| 289 | Universal Firmware Package for Drives - MO001600KZYWU, MO003200KZYXB, MO006400KZYXC, VO001920KZYWT, VO003840KZYWV and VO007680KZYXA                                              | Solidigm_P5x20_4IAA HPK5.fwpkg              | MO006400KZYXC | HPK5 | HPK5 |
| 290 | Universal Firmware Package for Drives - MO001600KZYWU, MO003200KZYXB, MO006400KZYXC, VO001920KZYWT, VO003840KZYWV and VO007680KZYXA                                              | Solidigm_P5x20_4IAA HPK5.fwpkg              | VO001920KZYWT | HPK5 | HPK5 |
| 291 | Universal Firmware Package for Drives - MO001600KZYWU, MO003200KZYXB, MO006400KZYXC, VO001920KZYWT, VO003840KZYWV and VO007680KZYXA                                              | Solidigm_P5x20_4IAA HPK5.fwpkg              | VO003840KZYWV | HPK5 | HPK5 |
| 292 | Universal Firmware Package for Drives - MO001600KZYWU, MO003200KZYXB, MO006400KZYXC, VO001920KZYWT, VO003840KZYWV and VO007680KZYXA                                              | Solidigm_P5x20_4IAA HPK5.fwpkg              | VO007680KZYXA | HPK5 | HPK5 |
| 293 | Universal Firmware Package for Drives - MV003200LXUJK, MV006400LXUJL, VV003840LXUJE, VV007680LXUJF and VV015360LXUJH                                                             | Kioxia_CM7_KACM7A LEHPK5.fwpkg              | MV003200LXUJK | HPK5 | HPK5 |
| 294 | Universal Firmware Package for Drives - MV003200LXUJK, MV006400LXUJL, VV003840LXUJE, VV007680LXUJF and VV015360LXUJH                                                             | Kioxia_CM7_KACM7A LEHPK5.fwpkg              | MV006400LXUJL | HPK5 | HPK5 |
| 295 | Universal Firmware Package for Drives - MV003200LXUJK, MV006400LXUJL, VV003840LXUJE, VV007680LXUJF and VV015360LXUJH                                                             | Kioxia_CM7_KACM7A LEHPK5.fwpkg              | VV003840LXUJE | HPK5 | HPK5 |
| 296 | Universal Firmware Package for Drives - MV003200LXUJK, MV006400LXUJL, VV003840LXUJE, VV007680LXUJF and VV015360LXUJH                                                             | Kioxia_CM7_KACM7A LEHPK5.fwpkg              | VV007680LXUJF | HPK5 | HPK5 |
| 297 | Universal Firmware Package for Drives - MV003200LXUJK, MV006400LXUJL, VV003840LXUJE, VV007680LXUJF and VV015360LXUJH                                                             | Kioxia_CM7_KACM7A LEHPK5.fwpkg              | VV015360LXUJH | HPK5 | HPK5 |
| 298 | Universal Firmware Package for Drives - VK000960KYDPT, VK001920KYDPU, VK003840KYDPV and VK007680KYDQA                                                                            | Samsung_PM9A3_PM 9A3U3HPK4.fwpkg            | VK000960KYDPT | HPK4 | HPK4 |
| 299 | Universal Firmware Package for Drives - VK000960KYDPT, VK001920KYDPU, VK003840KYDPV and VK007680KYDQA                                                                            | Samsung_PM9A3_PM 9A3U3HPK4.fwpkg            | VK001920KYDPU | HPK4 | HPK4 |
| 300 | Universal Firmware Package for Drives - VK000960KYDPT, VK001920KYDPU,                                                                                                            | Samsung_PM9A3_PM 9A3U3HPK4.fwpkg            | VK003840KYDPV | HPK4 | HPK4 |

|     |                                                                                                                                                                   |                                             |               |      |      |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------|------|------|
|     | VK003840KYDPV and VK007680KYDQA                                                                                                                                   |                                             |               |      |      |
| 301 | Universal Firmware Package for Drives - VK000960KYDPT, VK001920KYDPU, VK003840KYDPV and VK007680KYDQA                                                             | Samsung_PM9A3_PM9A3U3HPK4.fwpkg             | VK007680KYDQA | HPK4 | HPK4 |
| 302 | Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB | Micron_7450_Micron_7450_M7450ALLHPS 3.fwpkg | VO001920KXNZQ | HPS3 | HPS3 |
| 303 | Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB | Micron_7450_Micron_7450_M7450ALLHPS 3.fwpkg | VO003840KXNZR | HPS3 | HPS3 |
| 304 | Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB | Micron_7450_Micron_7450_M7450ALLHPS 3.fwpkg | VO007680KXNZT | HPS3 | HPS3 |
| 305 | Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB | Micron_7450_Micron_7450_M7450ALLHPS 3.fwpkg | MO000800KXNXH | HPS3 | HPS3 |
| 306 | Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB | Micron_7450_Micron_7450_M7450ALLHPS 3.fwpkg | MO001600KXNZV | HPS3 | HPS3 |
| 307 | Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB | Micron_7450_Micron_7450_M7450ALLHPS 3.fwpkg | MO003200KXPAA | HPS3 | HPS3 |
| 308 | Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB | Micron_7450_Micron_7450_M7450ALLHPS 3.fwpkg | MO006400KXPAB | HPS3 | HPS3 |
| 309 | Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB | Micron_7450_Micron_7450_M7450ALLHPS 3.fwpkg | VO000960KXNXD | HPS3 | HPS3 |
| 310 | Universal Firmware Package for Drives - VR000480KXLXF                                                                                                             | Samsung_PM9A3_PM9A3M2HPK3.fwpkg             | VR000480KXLXF | HPK3 | HPK3 |
| 311 | Universal Firmware Package for Drives - VV001920LYDTT, VV003840LYDTU and VV007680LYDTV                                                                            | Kioxia_CD7_KACD7AL SHPK6.fwpkg              | VV001920LYDTT | HPK6 | HPK6 |
| 312 | Universal Firmware Package for Drives - VV001920LYDTT, VV003840LYDTU and VV007680LYDTV                                                                            | Kioxia_CD7_KACD7AL SHPK6.fwpkg              | VV003840LYDTU | HPK6 | HPK6 |
| 313 | Universal Firmware Package for Drives - VV001920LYDTT, VV003840LYDTU and VV007680LYDTV                                                                            | Kioxia_CD7_KACD7AL SHPK6.fwpkg              | VV007680LYDTV | HPK6 | HPK6 |
| 314 | Universal Firmware Package for Drives - VV003840KXNTH, VV007680KXNTN and VV015360KXNTP                                                                            | Samsung_PM1743_G PM1743HPK6.fwpkg           | VV003840KXNTH | HPK6 | HPK6 |



|     |                                                                                        |                                    |               |      |      |
|-----|----------------------------------------------------------------------------------------|------------------------------------|---------------|------|------|
| 315 | Universal Firmware Package for Drives - VV003840KXNTH, VV007680KXNTN and VV015360KXNTP | Samsung_PM1743_G PM1743HPK6.fwpkg  | VV007680KXNTN | HPK6 | HPK6 |
| 316 | Universal Firmware Package for Drives - VV003840KXNTH, VV007680KXNTN and VV015360KXNTP | Samsung_PM1743_G PM1743HPK6.fwpkg  | VV015360KXNTP | HPK6 | HPK6 |
| 317 | Universal Firmware Package for Drives - VV003840KXWBF, VV007680KXWBL and VV015360KXWBN | Solidigm_P5x30_SP54 304KHPK2.fwpkg | VV003840KXWBF | HPK2 | HPK2 |
| 318 | Universal Firmware Package for Drives - VV003840KXWBF, VV007680KXWBL and VV015360KXWBN | Solidigm_P5x30_SP54 304KHPK2.fwpkg | VV007680KXWBL | HPK2 | HPK2 |
| 319 | Universal Firmware Package for Drives - VV003840KXWBF, VV007680KXWBL and VV015360KXWBN | Solidigm_P5x30_SP54 304KHPK2.fwpkg | VV015360KXWBN | HPK2 | HPK2 |

### 6.2.13 Firmware - Power Management

| No. | Description                                                                                                 | Package filename                        | Device                                     | Package Version | Firmware/Driver version |
|-----|-------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------|-----------------|-------------------------|
| 320 | Online ROM Flash for Linux - Advanced Power Capping Microcontroller Firmware                                | firmware-powerpic-1.0.4-2.1.x86_64.rpm  | Gen11 Power Management Controller Firmware | 1.0.4 (B)       | 1.0.4                   |
| 321 | Online ROM Flash for Linux - Advanced Power Capping Microcontroller Firmware II for HPE Gen11 Servers       | firmware-stm-gen11-1.2.2-3.1.x86_64.rpm | Gen11 Power Management Controller Firmware | 1.2.2 (C)       | 1.2.2                   |
| 322 | Online ROM Flash for Windows x64 - Advanced Power Capping Microcontroller Firmware                          | cp062617.exe                            | Gen11 Power Management Controller Firmware | 1.0.4 (B)       | 1.0.4                   |
| 323 | Online ROM Flash for Windows x64 - Advanced Power Capping Microcontroller Firmware II for HPE Gen11 Servers | cp062621.exe                            | Gen11 Power Management Controller Firmware | 1.2.2 (B)       | 1.2.2                   |
| 324 | ROM Flash Firmware Package - Advanced Power Capping Microcontroller Firmware                                | PICFW-1.0.4-1.fwpkg                     | Gen11 Power Management Controller Firmware | 1.0.4           | 1.0.4                   |
| 325 | ROM Flash Firmware Package - Advanced Power Capping Microcontroller Firmware II for HPE Gen11 Servers       | STMGen11-1.2.2-1.fwpkg                  | Gen11 Power Management Controller Firmware | 1.2.2 (B)       | 1.2.2                   |

### 6.2.14 Firmware - SAS Storage Disk

| No. | Description                                                                                                                          | Package filename                            | Device        | Package Version | Firmware/Driver version |
|-----|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------|-----------------|-------------------------|
| 326 | Online HDD/SSD Flash Component for Linux (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives | firmware-hdd-bdfb8e99d9-HPD8-3.1.x86_64.rpm | EG001200JWJNQ | HPD8 (C)        | HPD8                    |
| 327 | Online HDD/SSD Flash Component for Linux (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives | firmware-hdd-bdfb8e99d9-HPD8-3.1.x86_64.rpm | EG000600JWJNP | HPD8 (C)        | HPD8                    |
| 328 | Online HDD/SSD Flash Component for Linux (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives | firmware-hdd-bdfb8e99d9-HPD8-3.1.x86_64.rpm | EG001200MXJQU | HPD8 (C)        | HPD8                    |
| 329 | Online HDD/SSD Flash Component for Linux (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives | firmware-hdd-bdfb8e99d9-HPD8-3.1.x86_64.rpm | EG000600JXLVV | HPD8 (C)        | HPD8                    |

|     |                                                                                                                                                                                                                                                  |                                             |               |          |      |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------|----------|------|
| 330 | Online HDD/SSD Flash Component for Linux (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives                                                                                                             | firmware-hdd-bdfb8e99d9-HPD8-3.1.x86_64.rpm | EG001200JXLWA | HPD8 (C) | HPD8 |
| 331 | Online HDD/SSD Flash Component for Linux (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives                                                                                                             | firmware-hdd-b1c9eaf74c-HPDA-4.1.x86_64.rpm | EG001800JWJNR | HPDA (D) | HPDA |
| 332 | Online HDD/SSD Flash Component for Linux (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives                                                                                                             | firmware-hdd-b1c9eaf74c-HPDA-4.1.x86_64.rpm | EG002400JWJNT | HPDA (D) | HPDA |
| 333 | Online HDD/SSD Flash Component for Linux (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives                                                                                                             | firmware-hdd-b1c9eaf74c-HPDA-4.1.x86_64.rpm | EG002400MXJQT | HPDA (D) | HPDA |
| 334 | Online HDD/SSD Flash Component for Linux (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives                                                                                                             | firmware-hdd-b1c9eaf74c-HPDA-4.1.x86_64.rpm | EG001800JXLWB | HPDA (D) | HPDA |
| 335 | Online HDD/SSD Flash Component for Linux (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives                                                                                                             | firmware-hdd-b1c9eaf74c-HPDA-4.1.x86_64.rpm | EG002400JXLWC | HPDA (D) | HPDA |
| 336 | Online HDD/SSD Flash Component for Linux (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCE, MO006400PXDCE, VO000960PXDBN, VO001920PXDDBR, VO003840PXDBT, VO007680PXDDBU and VO015300PXDDBV Drives | firmware-hdd-42aff4675b-HPD4-1.1.x86_64.rpm | EO000800PXDCK | HPD4     | HPD4 |
| 337 | Online HDD/SSD Flash Component for Linux (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCE, MO006400PXDCE, VO000960PXDBN, VO001920PXDDBR, VO003840PXDBT, VO007680PXDDBU and VO015300PXDDBV Drives | firmware-hdd-42aff4675b-HPD4-1.1.x86_64.rpm | MO000800PXDBP | HPD4     | HPD4 |
| 338 | Online HDD/SSD Flash Component for Linux (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCE, MO006400PXDCE, VO000960PXDBN, VO001920PXDDBR, VO003840PXDBT, VO007680PXDDBU and VO015300PXDDBV Drives | firmware-hdd-42aff4675b-HPD4-1.1.x86_64.rpm | EO000400PXDBQ | HPD4     | HPD4 |
| 339 | Online HDD/SSD Flash Component for Linux (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCE, MO006400PXDCE, VO000960PXDBN, VO001920PXDDBR, VO003840PXDBT, VO007680PXDDBU and VO015300PXDDBV Drives | firmware-hdd-42aff4675b-HPD4-1.1.x86_64.rpm | EO001600PXDCH | HPD4     | HPD4 |
| 340 | Online HDD/SSD Flash Component for Linux (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC,                                                                                                                      | firmware-hdd-42aff4675b-HPD4-1.1.x86_64.rpm | MO001600PXDCC | HPD4     | HPD4 |

|     |                                                                                                                                                                                                                                               |                                             |               |          |      |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------|----------|------|
|     | MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives                                                                                                                             |                                             |               |          |      |
| 341 | Online HDD/SSD Flash Component for Linux (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives | firmware-hdd-42aff4675b-HPD4-1.1.x86_64.rpm | MO006400PXDCE | HPD4     | HPD4 |
| 342 | Online HDD/SSD Flash Component for Linux (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives | firmware-hdd-42aff4675b-HPD4-1.1.x86_64.rpm | VO007680PXDBU | HPD4     | HPD4 |
| 343 | Online HDD/SSD Flash Component for Linux (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives | firmware-hdd-42aff4675b-HPD4-1.1.x86_64.rpm | VO001920PXDBR | HPD4     | HPD4 |
| 344 | Online HDD/SSD Flash Component for Linux (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives | firmware-hdd-42aff4675b-HPD4-1.1.x86_64.rpm | MO003200PXDCD | HPD4     | HPD4 |
| 345 | Online HDD/SSD Flash Component for Linux (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives | firmware-hdd-42aff4675b-HPD4-1.1.x86_64.rpm | VO015300PXDBV | HPD4     | HPD4 |
| 346 | Online HDD/SSD Flash Component for Linux (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives | firmware-hdd-42aff4675b-HPD4-1.1.x86_64.rpm | VO000960PXDBN | HPD4     | HPD4 |
| 347 | Online HDD/SSD Flash Component for Linux (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives | firmware-hdd-42aff4675b-HPD4-1.1.x86_64.rpm | VO003840PXDBT | HPD4     | HPD4 |
| 348 | Online HDD/SSD Flash Component for Linux (x64) - MB002000JWFVN and MB004000JWFVP Drives                                                                                                                                                       | firmware-hdd-d7af557f47-HPD4-8.1.x86_64.rpm | MB002000JWFVN | HPD4 (H) | HPD4 |
| 349 | Online HDD/SSD Flash Component for Linux (x64) - MB002000JWFVN and MB004000JWFVP Drives                                                                                                                                                       | firmware-hdd-d7af557f47-HPD4-8.1.x86_64.rpm | MB004000JWFVP | HPD4 (H) | HPD4 |

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|-----|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------|----------|------|
| 350 | Online HDD/SSD Flash Component for Linux (x64) - MB002000JYDNE and MB004000JYDPB Drives                                              | firmware-hdd-d4be2aecbb-HPD2-5.1.x86_64.rpm | MB004000JYDPB | HPD2 (E) | HPD2 |
| 351 | Online HDD/SSD Flash Component for Linux (x64) - MB002000JYDNE and MB004000JYDPB Drives                                              | firmware-hdd-d4be2aecbb-HPD2-5.1.x86_64.rpm | MB002000JYDNE | HPD2 (E) | HPD2 |
| 352 | Online HDD/SSD Flash Component for Linux (x64) - MB004000JWWQB and MB002000JWWQA Drives                                              | firmware-hdd-adb3ab8147-HPD8-5.1.x86_64.rpm | MB004000JWWQB | HPD8 (E) | HPD8 |
| 353 | Online HDD/SSD Flash Component for Linux (x64) - MB004000JWWQB and MB002000JWWQA Drives                                              | firmware-hdd-adb3ab8147-HPD8-5.1.x86_64.rpm | MB002000JWWQA | HPD8 (E) | HPD8 |
| 354 | Online HDD/SSD Flash Component for Linux (x64) - MB006000JYDNF and MB008000JYDPC Drives                                              | firmware-hdd-b04df66fe9-HPD2-5.1.x86_64.rpm | MB006000JYDNF | HPD2 (E) | HPD2 |
| 355 | Online HDD/SSD Flash Component for Linux (x64) - MB006000JYDNF and MB008000JYDPC Drives                                              | firmware-hdd-b04df66fe9-HPD2-5.1.x86_64.rpm | MB008000JYDPC | HPD2 (E) | HPD2 |
| 356 | Online HDD/SSD Flash Component for Linux (x64) - MB008000JWWQP and MB006000JWWQN Drives                                              | firmware-hdd-ae6b41e855-HPD8-5.1.x86_64.rpm | MB006000JWWQN | HPD8 (E) | HPD8 |
| 357 | Online HDD/SSD Flash Component for Linux (x64) - MB008000JWWQP and MB006000JWWQN Drives                                              | firmware-hdd-ae6b41e855-HPD8-5.1.x86_64.rpm | MB008000JWWQP | HPD8 (E) | HPD8 |
| 358 | Online HDD/SSD Flash Component for Linux (x64) - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives                | firmware-hdd-cf0b6cabe1-HPD4-4.1.x86_64.rpm | MB010000JWZHA | HPD4 (D) | HPD4 |
| 359 | Online HDD/SSD Flash Component for Linux (x64) - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives                | firmware-hdd-cf0b6cabe1-HPD4-4.1.x86_64.rpm | MB016000JWZHE | HPD4 (D) | HPD4 |
| 360 | Online HDD/SSD Flash Component for Linux (x64) - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives                | firmware-hdd-cf0b6cabe1-HPD4-4.1.x86_64.rpm | MB014000JWZHC | HPD4 (D) | HPD4 |
| 361 | Online HDD/SSD Flash Component for Linux (x64) - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives                | firmware-hdd-cf0b6cabe1-HPD4-4.1.x86_64.rpm | MB012000JWZHB | HPD4 (D) | HPD4 |
| 362 | Online HDD/SSD Flash Component for Linux (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives | firmware-hdd-8173816d98-HPD3-2.1.x86_64.rpm | MB010000JYDKK | HPD3 (B) | HPD3 |
| 363 | Online HDD/SSD Flash Component for Linux (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives | firmware-hdd-8173816d98-HPD3-2.1.x86_64.rpm | MB012000JYCJF | HPD3 (B) | HPD3 |
| 364 | Online HDD/SSD Flash Component for Linux (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives | firmware-hdd-8173816d98-HPD3-2.1.x86_64.rpm | MB014000JYCJV | HPD3 (B) | HPD3 |
| 365 | Online HDD/SSD Flash Component for Linux (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives | firmware-hdd-8173816d98-HPD3-2.1.x86_64.rpm | MB016000JYDKL | HPD3 (B) | HPD3 |
| 366 | Online HDD/SSD Flash Component for Linux (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives | firmware-hdd-8173816d98-HPD3-2.1.x86_64.rpm | MB018000JYDKN | HPD3 (B) | HPD3 |
| 367 | Online HDD/SSD Flash Component for                                                                                                   | firmware-hdd-                               | MB012000JZYVN | HPD4 (B) | HPD4 |

|     |                                                                                                                                                                    |                                             |               |          |      |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------|----------|------|
|     | Linux (x64) - MB012000JZYVN, MB014000JZYVP, MB016000JZVQ and MB018000JYCLK Drives                                                                                  | 87b796d9ae-HPD4-2.1.x86_64.rpm              |               |          |      |
| 368 | Online HDD/SSD Flash Component for Linux (x64) - MB012000JZYVN, MB014000JZYVP, MB016000JZVQ and MB018000JYCLK Drives                                               | firmware-hdd-87b796d9ae-HPD4-2.1.x86_64.rpm | MB014000JZYVP | HPD4 (B) | HPD4 |
| 369 | Online HDD/SSD Flash Component for Linux (x64) - MB012000JZYVN, MB014000JZYVP, MB016000JZVQ and MB018000JYCLK Drives                                               | firmware-hdd-87b796d9ae-HPD4-2.1.x86_64.rpm | MB016000JZVQ  | HPD4 (B) | HPD4 |
| 370 | Online HDD/SSD Flash Component for Linux (x64) - MB012000JZYVN, MB014000JZYVP, MB016000JZVQ and MB018000JYCLK Drives                                               | firmware-hdd-87b796d9ae-HPD4-2.1.x86_64.rpm | MB018000JYCLK | HPD4 (B) | HPD4 |
| 371 | Online HDD/SSD Flash Component for Linux (x64) - MB014000JXUCC Drive                                                                                               | firmware-hdd-017797f12e-HPD4-3.1.x86_64.rpm | MB014000JXUCC | HPD4 (C) | HPD4 |
| 372 | Online HDD/SSD Flash Component for Linux (x64) - MB016000JWXXH Drive                                                                                               | firmware-hdd-8a0371a425-HPDA-3.1.x86_64.rpm | MB016000JWXXH | HPDA (C) | HPDA |
| 373 | Online HDD/SSD Flash Component for Linux (x64) - MB016000JXLBA and MB018000JXLAU Drives                                                                            | firmware-hdd-d550523365-HPD3-3.1.x86_64.rpm | MB016000JXLBA | HPD3 (C) | HPD3 |
| 374 | Online HDD/SSD Flash Component for Linux (x64) - MB016000JXLBA and MB018000JXLAU Drives                                                                            | firmware-hdd-d550523365-HPD3-3.1.x86_64.rpm | MB018000JXLAU | HPD3 (C) | HPD3 |
| 375 | Online HDD/SSD Flash Component for Linux (x64) - MB018000JXMTH and MB020000JXMTP Drives                                                                            | firmware-hdd-020fc874ad-HPD2-2.1.x86_64.rpm | MB020000JXMTP | HPD2 (B) | HPD2 |
| 376 | Online HDD/SSD Flash Component for Linux (x64) - MB018000JXMTH and MB020000JXMTP Drives                                                                            | firmware-hdd-020fc874ad-HPD2-2.1.x86_64.rpm | MB018000JXMTH | HPD2 (B) | HPD2 |
| 377 | Online HDD/SSD Flash Component for Linux (x64) - MM1000JEFRB and MM2000JEFRC Drives                                                                                | firmware-hdd-b04257b77b-HPDA-4.1.x86_64.rpm | MM1000JEFRB   | HPDA (D) | HPDA |
| 378 | Online HDD/SSD Flash Component for Linux (x64) - MM1000JEFRB and MM2000JEFRC Drives                                                                                | firmware-hdd-b04257b77b-HPDA-4.1.x86_64.rpm | MM2000JEFRC   | HPDA (D) | HPDA |
| 379 | Online HDD/SSD Flash Component for Linux (x64) - MM1000JFJTH Drive                                                                                                 | firmware-hdd-fa46c607d6-HPD5-4.1.x86_64.rpm | MM1000JFJTH   | HPD5 (D) | HPD5 |
| 380 | Online HDD/SSD Flash Component for Linux (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives | firmware-hdd-8fafc9efb2-HPD8-2.1.x86_64.rpm | VO007680RWUFC | HPD8 (B) | HPD8 |
| 381 | Online HDD/SSD Flash Component for Linux (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives | firmware-hdd-8fafc9efb2-HPD8-2.1.x86_64.rpm | VO003840RWUFF | HPD8 (B) | HPD8 |
| 382 | Online HDD/SSD Flash Component for Linux (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives | firmware-hdd-8fafc9efb2-HPD8-2.1.x86_64.rpm | VO003840RWUFB | HPD8 (B) | HPD8 |
| 383 | Online HDD/SSD Flash Component for Linux (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives | firmware-hdd-8fafc9efb2-HPD8-2.1.x86_64.rpm | VO001920RWUFE | HPD8 (B) | HPD8 |

|     |                                                                                                                                                                    |                                             |               |          |      |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------|----------|------|
| 384 | Online HDD/SSD Flash Component for Linux (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives | firmware-hdd-8fafc9efb2-HPD8-2.1.x86_64.rpm | VO001920RWUFA | HPD8 (B) | HPD8 |
| 385 | Online HDD/SSD Flash Component for Linux (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives | firmware-hdd-8fafc9efb2-HPD8-2.1.x86_64.rpm | VO000960RWUFD | HPD8 (B) | HPD8 |
| 386 | Online HDD/SSD Flash Component for Linux (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives | firmware-hdd-8fafc9efb2-HPD8-2.1.x86_64.rpm | VO000960RWUEV | HPD8 (B) | HPD8 |
| 387 | Online HDD/SSD Flash Component for VMware ESXi - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives                               | CP061359.zip                                | EG001200JWJNQ | HPD8 (B) | HPD8 |
| 388 | Online HDD/SSD Flash Component for VMware ESXi - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives                               | CP061359.zip                                | EG000600JWJNP | HPD8 (B) | HPD8 |
| 389 | Online HDD/SSD Flash Component for VMware ESXi - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives                               | CP061359.zip                                | EG001200MXJQU | HPD8 (B) | HPD8 |
| 390 | Online HDD/SSD Flash Component for VMware ESXi - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives                               | CP061359.zip                                | EG000600JXLVV | HPD8 (B) | HPD8 |
| 391 | Online HDD/SSD Flash Component for VMware ESXi - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives                               | CP061359.zip                                | EG001200JXLWA | HPD8 (B) | HPD8 |
| 392 | Online HDD/SSD Flash Component for VMware ESXi - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives                               | CP061358.zip                                | EG001800JWJNR | HPDA (C) | HPDA |
| 393 | Online HDD/SSD Flash Component for VMware ESXi - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives                               | CP061358.zip                                | EG002400JWJNT | HPDA (C) | HPDA |
| 394 | Online HDD/SSD Flash Component for VMware ESXi - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives                               | CP061358.zip                                | EG002400MXJQT | HPDA (C) | HPDA |
| 395 | Online HDD/SSD Flash Component for VMware ESXi - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives                               | CP061358.zip                                | EG001800JXLWB | HPDA (C) | HPDA |
| 396 | Online HDD/SSD Flash Component for VMware ESXi - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB,                                                                      | CP061358.zip                                | EG002400JXLWC | HPDA (C) | HPDA |

|     |                                                                                                                                                                                                                                                  |              |                |      |      |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|------|------|
|     | EG002400JXLWC and EG002400MXJQT Drives                                                                                                                                                                                                           |              |                |      |      |
| 397 | Online HDD/SSD Flash Component for VMware ESXi - EO000400PXBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCE, MO006400PXDCE, VO000960PXDBN, VO001920PXDDBR, VO003840PXDDBT, VO007680PXDDBU and VO015300PXDDBV Drives | CP062190.zip | EO000800PXDCK  | HPD4 | HPD4 |
| 398 | Online HDD/SSD Flash Component for VMware ESXi - EO000400PXBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCE, MO006400PXDCE, VO000960PXDBN, VO001920PXDDBR, VO003840PXDDBT, VO007680PXDDBU and VO015300PXDDBV Drives | CP062190.zip | MO000800PXDBP  | HPD4 | HPD4 |
| 399 | Online HDD/SSD Flash Component for VMware ESXi - EO000400PXBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCE, MO006400PXDCE, VO000960PXDBN, VO001920PXDDBR, VO003840PXDDBT, VO007680PXDDBU and VO015300PXDDBV Drives | CP062190.zip | EO000400PXBQ   | HPD4 | HPD4 |
| 400 | Online HDD/SSD Flash Component for VMware ESXi - EO000400PXBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCE, MO006400PXDCE, VO000960PXDBN, VO001920PXDDBR, VO003840PXDDBT, VO007680PXDDBU and VO015300PXDDBV Drives | CP062190.zip | EO001600PXDCH  | HPD4 | HPD4 |
| 401 | Online HDD/SSD Flash Component for VMware ESXi - EO000400PXBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCE, MO006400PXDCE, VO000960PXDBN, VO001920PXDDBR, VO003840PXDDBT, VO007680PXDDBU and VO015300PXDDBV Drives | CP062190.zip | MO001600PXDCC  | HPD4 | HPD4 |
| 402 | Online HDD/SSD Flash Component for VMware ESXi - EO000400PXBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCE, MO006400PXDCE, VO000960PXDBN, VO001920PXDDBR, VO003840PXDDBT, VO007680PXDDBU and VO015300PXDDBV Drives | CP062190.zip | MO006400PXDCE  | HPD4 | HPD4 |
| 403 | Online HDD/SSD Flash Component for VMware ESXi - EO000400PXBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCE, MO006400PXDCE, VO000960PXDBN, VO001920PXDDBR, VO003840PXDDBT, VO007680PXDDBU and VO015300PXDDBV Drives | CP062190.zip | VO007680PXDDBU | HPD4 | HPD4 |
| 404 | Online HDD/SSD Flash Component for VMware ESXi - EO000400PXBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCE, MO006400PXDCE, VO000960PXDBN, VO001920PXDDBR, VO003840PXDDBT, VO007680PXDDBU and VO015300PXDDBV Drives | CP062190.zip | VO001920PXDDBR | HPD4 | HPD4 |

|     |                                                                                                                                                                                                                                               |              |               |          |      |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|----------|------|
| 405 | Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDUB and VO015300PXDBV Drives | CP062190.zip | VO015300PXDBV | HPD4     | HPD4 |
| 406 | Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDUB and VO015300PXDBV Drives | CP062190.zip | MO003200PXDCD | HPD4     | HPD4 |
| 407 | Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDUB and VO015300PXDBV Drives | CP062190.zip | VO000960PXDBN | HPD4     | HPD4 |
| 408 | Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDUB and VO015300PXDBV Drives | CP062190.zip | VO003840PXDBT | HPD4     | HPD4 |
| 409 | Online HDD/SSD Flash Component for VMware ESXi - MB002000JWFVN and MB004000JWFVP Drives                                                                                                                                                       | CP061413.zip | MB002000JWFVN | HPD4 (F) | HPD4 |
| 410 | Online HDD/SSD Flash Component for VMware ESXi - MB002000JWFVN and MB004000JWFVP Drives                                                                                                                                                       | CP061413.zip | MB004000JWFVP | HPD4 (F) | HPD4 |
| 411 | Online HDD/SSD Flash Component for VMware ESXi - MB002000JYDNE and MB004000JYDPB Drives                                                                                                                                                       | CP061454.zip | MB004000JYDPB | HPD2 (E) | HPD2 |
| 412 | Online HDD/SSD Flash Component for VMware ESXi - MB002000JYDNE and MB004000JYDPB Drives                                                                                                                                                       | CP061454.zip | MB002000JYDNE | HPD2 (E) | HPD2 |
| 413 | Online HDD/SSD Flash Component for VMware ESXi - MB004000JWWQB and MB002000JWWQA Drives                                                                                                                                                       | CP061394.zip | MB004000JWWQB | HPD8 (B) | HPD8 |
| 414 | Online HDD/SSD Flash Component for VMware ESXi - MB004000JWWQB and MB002000JWWQA Drives                                                                                                                                                       | CP061394.zip | MB002000JWWQA | HPD8 (B) | HPD8 |
| 415 | Online HDD/SSD Flash Component for VMware ESXi - MB006000JYDNF and MB008000JYDPC Drives                                                                                                                                                       | CP061453.zip | MB006000JYDNF | HPD2 (E) | HPD2 |
| 416 | Online HDD/SSD Flash Component for VMware ESXi - MB006000JYDNF and MB008000JYDPC Drives                                                                                                                                                       | CP061453.zip | MB008000JYDPC | HPD2 (E) | HPD2 |
| 417 | Online HDD/SSD Flash Component for VMware ESXi - MB008000JWWQN and MB006000JWWQNP Drives                                                                                                                                                      | CP061393.zip | MB006000JWWQN | HPD8 (B) | HPD8 |
| 418 | Online HDD/SSD Flash Component for VMware ESXi - MB008000JWWQN and MB006000JWWQNP Drives                                                                                                                                                      | CP061393.zip | MB008000JWWQN | HPD8 (B) | HPD8 |
| 419 | Online HDD/SSD Flash Component for VMware ESXi - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives                                                                                                                         | CP061444.zip | MB010000JWZHA | HPD4 (B) | HPD4 |



|     |                                                                                                                                      |              |               |          |      |
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| 420 | Online HDD/SSD Flash Component for VMware ESXi - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives                | CP061444.zip | MB012000JWZHB | HPD4 (B) | HPD4 |
| 421 | Online HDD/SSD Flash Component for VMware ESXi - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives                | CP061444.zip | MB016000JWZHE | HPD4 (B) | HPD4 |
| 422 | Online HDD/SSD Flash Component for VMware ESXi - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives                | CP061444.zip | MB014000JWZHC | HPD4 (B) | HPD4 |
| 423 | Online HDD/SSD Flash Component for VMware ESXi - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives | CP061557.zip | MB010000JYDKK | HPD3 (B) | HPD3 |
| 424 | Online HDD/SSD Flash Component for VMware ESXi - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives | CP061557.zip | MB012000JYCJF | HPD3 (B) | HPD3 |
| 425 | Online HDD/SSD Flash Component for VMware ESXi - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives | CP061557.zip | MB014000JYCJV | HPD3 (B) | HPD3 |
| 426 | Online HDD/SSD Flash Component for VMware ESXi - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives | CP061557.zip | MB016000JYDKL | HPD3 (B) | HPD3 |
| 427 | Online HDD/SSD Flash Component for VMware ESXi - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives | CP061557.zip | MB018000JYDKN | HPD3 (B) | HPD3 |
| 428 | Online HDD/SSD Flash Component for VMware ESXi - MB012000JZYVN, MB014000JZYVP, MB016000JZVQ and MB018000JYCLK Drives                 | CP061356.zip | MB012000JZYVN | HPD4 (B) | HPD4 |
| 429 | Online HDD/SSD Flash Component for VMware ESXi - MB012000JZYVN, MB014000JZYVP, MB016000JZVQ and MB018000JYCLK Drives                 | CP061356.zip | MB014000JZYVP | HPD4 (B) | HPD4 |
| 430 | Online HDD/SSD Flash Component for VMware ESXi - MB012000JZYVN, MB014000JZYVP, MB016000JZVQ and MB018000JYCLK Drives                 | CP061356.zip | MB016000JZVQ  | HPD4 (B) | HPD4 |
| 431 | Online HDD/SSD Flash Component for VMware ESXi - MB012000JZYVN, MB014000JZYVP, MB016000JZVQ and MB018000JYCLK Drives                 | CP061356.zip | MB018000JYCLK | HPD4 (B) | HPD4 |
| 432 | Online HDD/SSD Flash Component for VMware ESXi - MB014000JXUCC Drive                                                                 | CP061537.zip | MB014000JXUCC | HPD4 (B) | HPD4 |
| 433 | Online HDD/SSD Flash Component for VMware ESXi - MB016000JWXKH Drive                                                                 | CP061446.zip | MB016000JWXKH | HPDA (B) | HPDA |
| 434 | Online HDD/SSD Flash Component for VMware ESXi - MB016000JXLBA and MB018000JXLAU Drives                                              | CP061449.zip | MB016000JXLBA | HPD3 (B) | HPD3 |
| 435 | Online HDD/SSD Flash Component for VMware ESXi - MB016000JXLBA and MB018000JXLAU Drives                                              | CP061449.zip | MB018000JXLAU | HPD3 (B) | HPD3 |
| 436 | Online HDD/SSD Flash Component for VMware ESXi - MB018000JXMTH and MB020000JXMTP Drives                                              | CP061558.zip | MB018000JXMTH | HPD2 (B) | HPD2 |

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| 437 | Online HDD/SSD Flash Component for VMware ESXi - MB018000JXMTB and MB020000JXMTB Drives                                                                            | CP061558.zip | MB020000JXMTB | HPD2 (B) | HPD2 |
| 438 | Online HDD/SSD Flash Component for VMware ESXi - MM1000JEFRB and MM2000JEFRB Drives                                                                                | CP061340.zip | MM1000JEFRB   | HPDA (D) | HPDA |
| 439 | Online HDD/SSD Flash Component for VMware ESXi - MM1000JEFRB and MM2000JEFRB Drives                                                                                | CP061340.zip | MM2000JEFRB   | HPDA (D) | HPDA |
| 440 | Online HDD/SSD Flash Component for VMware ESXi - MM1000JFJTH Drive                                                                                                 | CP061555.zip | MM1000JFJTH   | HPD5 (D) | HPD5 |
| 441 | Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives | CP061451.zip | VO007680RWUFC | HPD8 (B) | HPD8 |
| 442 | Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives | CP061451.zip | VO003840RWUFF | HPD8 (B) | HPD8 |
| 443 | Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives | CP061451.zip | VO003840RWUFB | HPD8 (B) | HPD8 |
| 444 | Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives | CP061451.zip | VO001920RWUFE | HPD8 (B) | HPD8 |
| 445 | Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives | CP061451.zip | VO001920RWUFA | HPD8 (B) | HPD8 |
| 446 | Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives | CP061451.zip | VO000960RWUFD | HPD8 (B) | HPD8 |
| 447 | Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives | CP061451.zip | VO000960RWUEV | HPD8 (B) | HPD8 |
| 448 | Online HDD/SSD Flash Component for Windows (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives                             | cp061379.exe | EG001200MXJQU | HPD8 (B) | HPD8 |
| 449 | Online HDD/SSD Flash Component for Windows (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives                             | cp061379.exe | EG000600JXLVV | HPD8 (B) | HPD8 |
| 450 | Online HDD/SSD Flash Component for Windows (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV,                                                                    | cp061379.exe | EG001200JXLWA | HPD8 (B) | HPD8 |

|     |                                                                                                                                                                                                                                                     |              |               |          |      |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|----------|------|
|     | EG001200JXLWA and EG001200MXJQU Drives                                                                                                                                                                                                              |              |               |          |      |
| 451 | Online HDD/SSD Flash Component for Windows (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives                                                                                                              | cp061379.exe | EG000600JWJNP | HPD8 (B) | HPD8 |
| 452 | Online HDD/SSD Flash Component for Windows (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives                                                                                                              | cp061379.exe | EG001200JWJNQ | HPD8 (B) | HPD8 |
| 453 | Online HDD/SSD Flash Component for Windows (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives                                                                                                              | cp061381.exe | EG001800JWJNR | HPDA (C) | HPDA |
| 454 | Online HDD/SSD Flash Component for Windows (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives                                                                                                              | cp061381.exe | EG002400JWJNT | HPDA (C) | HPDA |
| 455 | Online HDD/SSD Flash Component for Windows (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives                                                                                                              | cp061381.exe | EG002400MXJQT | HPDA (C) | HPDA |
| 456 | Online HDD/SSD Flash Component for Windows (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives                                                                                                              | cp061381.exe | EG001800JXLWB | HPDA (C) | HPDA |
| 457 | Online HDD/SSD Flash Component for Windows (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives                                                                                                              | cp061381.exe | EG002400JXLWC | HPDA (C) | HPDA |
| 458 | Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDDBR, VO003840PXDBT, VO007680PXDDBU and VO015300PXDDBV Drives | cp062191.exe | EO000800PXDCK | HPD4     | HPD4 |
| 459 | Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDDBR, VO003840PXDBT, VO007680PXDDBU and VO015300PXDDBV Drives | cp062191.exe | MO000800PXDBP | HPD4     | HPD4 |
| 460 | Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDDBR, VO003840PXDBT, VO007680PXDDBU and VO015300PXDDBV Drives | cp062191.exe | EO000400PXDBQ | HPD4     | HPD4 |
| 461 | Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCCD, MO006400PXDCE,                                                                                        | cp062191.exe | EO001600PXDCH | HPD4     | HPD4 |

|     |                                                                                                                                                                                                                                                 |              |               |      |      |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|------|------|
|     | VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives                                                                                                                                                             |              |               |      |      |
| 462 | Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCE, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives | cp062191.exe | MO001600PXDCC | HPD4 | HPD4 |
| 463 | Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCE, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives | cp062191.exe | MO006400PXDCE | HPD4 | HPD4 |
| 464 | Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCE, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives | cp062191.exe | VO007680PXDBU | HPD4 | HPD4 |
| 465 | Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCE, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives | cp062191.exe | VO001920PXDBR | HPD4 | HPD4 |
| 466 | Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCE, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives | cp062191.exe | VO015300PXDBV | HPD4 | HPD4 |
| 467 | Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCE, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives | cp062191.exe | MO003200PXDCE | HPD4 | HPD4 |
| 468 | Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCE, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives | cp062191.exe | VO000960PXDBN | HPD4 | HPD4 |
| 469 | Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCE, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and                      | cp062191.exe | VO003840PXDBT | HPD4 | HPD4 |

|     |                                                                                                                                        |              |               |          |      |
|-----|----------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|----------|------|
|     | VO015300PXDBV Drives                                                                                                                   |              |               |          |      |
| 470 | Online HDD/SSD Flash Component for Windows (x64) - MB002000JWFVN and MB004000JWFVP Drives                                              | cp061439.exe | MB002000JWFVN | HPD4 (F) | HPD4 |
| 471 | Online HDD/SSD Flash Component for Windows (x64) - MB002000JWFVN and MB004000JWFVP Drives                                              | cp061439.exe | MB004000JWFVP | HPD4 (F) | HPD4 |
| 472 | Online HDD/SSD Flash Component for Windows (x64) - MB002000JYDNE and MB004000JYDPB Drives                                              | cp061528.exe | MB004000JYDPB | HPD2 (E) | HPD2 |
| 473 | Online HDD/SSD Flash Component for Windows (x64) - MB002000JYDNE and MB004000JYDPB Drives                                              | cp061528.exe | MB002000JYDNE | HPD2 (E) | HPD2 |
| 474 | Online HDD/SSD Flash Component for Windows (x64) - MB004000JWWQB and MB002000JWWQA Drives                                              | cp061522.exe | MB004000JWWQB | HPD8 (C) | HPD8 |
| 475 | Online HDD/SSD Flash Component for Windows (x64) - MB004000JWWQB and MB002000JWWQA Drives                                              | cp061522.exe | MB002000JWWQA | HPD8 (C) | HPD8 |
| 476 | Online HDD/SSD Flash Component for Windows (x64) - MB006000JYDNF and MB008000JYDPC Drives                                              | cp061527.exe | MB006000JYDNF | HPD2 (E) | HPD2 |
| 477 | Online HDD/SSD Flash Component for Windows (x64) - MB006000JYDNF and MB008000JYDPC Drives                                              | cp061527.exe | MB008000JYDPC | HPD2 (E) | HPD2 |
| 478 | Online HDD/SSD Flash Component for Windows (x64) - MB008000JWWQP and MB006000JWWQN Drives                                              | cp061521.exe | MB006000JWWQN | HPD8 (C) | HPD8 |
| 479 | Online HDD/SSD Flash Component for Windows (x64) - MB008000JWWQP and MB006000JWWQN Drives                                              | cp061521.exe | MB008000JWWQP | HPD8 (C) | HPD8 |
| 480 | Online HDD/SSD Flash Component for Windows (x64) - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives                | cp061504.exe | MB010000JWZHA | HPD4 (C) | HPD4 |
| 481 | Online HDD/SSD Flash Component for Windows (x64) - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives                | cp061504.exe | MB012000JWZHB | HPD4 (C) | HPD4 |
| 482 | Online HDD/SSD Flash Component for Windows (x64) - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives                | cp061504.exe | MB014000JWZHC | HPD4 (C) | HPD4 |
| 483 | Online HDD/SSD Flash Component for Windows (x64) - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives                | cp061504.exe | MB016000JWZHE | HPD4 (C) | HPD4 |
| 484 | Online HDD/SSD Flash Component for Windows (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives | cp061513.exe | MB010000JYDKK | HPD3 (B) | HPD3 |
| 485 | Online HDD/SSD Flash Component for Windows (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives | cp061513.exe | MB012000JYCJF | HPD3 (B) | HPD3 |
| 486 | Online HDD/SSD Flash Component for Windows (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives | cp061513.exe | MB014000JYCJV | HPD3 (B) | HPD3 |
| 487 | Online HDD/SSD Flash Component for Windows (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives | cp061513.exe | MB016000JYDKL | HPD3 (B) | HPD3 |

|     | Drives                                                                                                                                                               |              |               |          |      |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|----------|------|
| 488 | Online HDD/SSD Flash Component for Windows (x64) - MB01000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives                                | cp061513.exe | MB018000JYDKN | HPD3 (B) | HPD3 |
| 489 | Online HDD/SSD Flash Component for Windows (x64) - MB012000JZYVN, MB014000JZYVP, MB016000JZVQ and MB018000JYCLK Drives                                               | cp061362.exe | MB012000JZYVN | HPD4 (B) | HPD4 |
| 490 | Online HDD/SSD Flash Component for Windows (x64) - MB012000JZYVN, MB014000JZYVP, MB016000JZVQ and MB018000JYCLK Drives                                               | cp061362.exe | MB014000JZYVP | HPD4 (B) | HPD4 |
| 491 | Online HDD/SSD Flash Component for Windows (x64) - MB012000JZYVN, MB014000JZYVP, MB016000JZVQ and MB018000JYCLK Drives                                               | cp061362.exe | MB016000JZVQ  | HPD4 (B) | HPD4 |
| 492 | Online HDD/SSD Flash Component for Windows (x64) - MB012000JZYVN, MB014000JZYVP, MB016000JZVQ and MB018000JYCLK Drives                                               | cp061362.exe | MB018000JYCLK | HPD4 (B) | HPD4 |
| 493 | Online HDD/SSD Flash Component for Windows (x64) - MB014000JXUCC Drive                                                                                               | cp061546.exe | MB014000JXUCC | HPD4 (B) | HPD4 |
| 494 | Online HDD/SSD Flash Component for Windows (x64) - MB016000JWXXH Drive                                                                                               | cp061375.exe | MB016000JWXXH | HPDA (B) | HPDA |
| 495 | Online HDD/SSD Flash Component for Windows (x64) - MB016000JXLBA and MB018000JXLAU Drives                                                                            | cp061585.exe | MB016000JXLBA | HPD3 (B) | HPD3 |
| 496 | Online HDD/SSD Flash Component for Windows (x64) - MB016000JXLBA and MB018000JXLAU Drives                                                                            | cp061585.exe | MB018000JXLAU | HPD3 (B) | HPD3 |
| 497 | Online HDD/SSD Flash Component for Windows (x64) - MB018000JXMTH and MB020000JXMTP Drives                                                                            | cp061515.exe | MB020000JXMTP | HPD2 (B) | HPD2 |
| 498 | Online HDD/SSD Flash Component for Windows (x64) - MB018000JXMTH and MB020000JXMTP Drives                                                                            | cp061515.exe | MB018000JXMTH | HPD2 (B) | HPD2 |
| 499 | Online HDD/SSD Flash Component for Windows (x64) - MM1000JEFRB and MM2000JEFRB Drives                                                                                | cp061529.exe | MM1000JEFRB   | HPDA (D) | HPDA |
| 500 | Online HDD/SSD Flash Component for Windows (x64) - MM1000JEFRB and MM2000JEFRB Drives                                                                                | cp061529.exe | MM2000JEFRB   | HPDA (D) | HPDA |
| 501 | Online HDD/SSD Flash Component for Windows (x64) - MM1000JFJTH Drive                                                                                                 | cp061530.exe | MM1000JFJTH   | HPD5 (D) | HPD5 |
| 502 | Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives | cp061519.exe | VO007680RWUFC | HPD8 (B) | HPD8 |
| 503 | Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives | cp061519.exe | VO003840RWUFF | HPD8 (B) | HPD8 |
| 504 | Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives | cp061519.exe | VO003840RWUFB | HPD8 (B) | HPD8 |
| 505 | Online HDD/SSD Flash Component for                                                                                                                                   | cp061519.exe | VO001920RWUFE | HPD8 (B) | HPD8 |

|     |                                                                                                                                                                      |                                     |                |          |      |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------|----------|------|
|     | Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives                                    |                                     |                |          |      |
| 506 | Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives | cp061519.exe                        | VO001920RWUFA  | HPD8 (B) | HPD8 |
| 507 | Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives | cp061519.exe                        | VO000960RWUFD  | HPD8 (B) | HPD8 |
| 508 | Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives | cp061519.exe                        | VO000960RWUEV  | HPD8 (B) | HPD8 |
| 509 | Universal Firmware Package for Drives - MB020000JXMOVU                                                                                                               | WDC_ParisD_Wparisd ASFD1.fwpkg      | MB020000JXMOVU | HPD1     | HPD1 |
| 510 | Universal Firmware Package for Drives - MB12000JYESN, MB16000JYEVC, MB20000JYEVD                                                                                     | Seagate_Summit_SU MMITSUSND1.fwpkg  | MB12000JYESN   | HPD1     | HPD1 |
| 511 | Universal Firmware Package for Drives - MB12000JYESN, MB16000JYEVC, MB20000JYEVD                                                                                     | Seagate_Summit_SU MMITSUSND1.fwpkg  | MB16000JYEVC   | HPD1     | HPD1 |
| 512 | Universal Firmware Package for Drives - MB12000JYESN, MB16000JYEVC, MB20000JYEVD                                                                                     | Seagate_Summit_SU MMITSUSND1.fwpkg  | MB20000JYEVD   | HPD1     | HPD1 |
| 513 | Universal Firmware Package for Drives - MB24000JYEVE                                                                                                                 | Seagate_Summit_SU MMITSUSND1.fwpkg  | MB24000JYEVE   | HPD1     | HPD1 |
| 514 | Universal Firmware Package for Drives - MO000960RXKRC, MO001920RXKRH, MO003840RXKRK, VO000960RXKRB, VO001920RXKRD and VO003840RXKRE                                  | Seagate_LangeBP_SL NGBPHPESD5.fwpkg | MO000960RXKRC  | HPD5     | HPD5 |
| 515 | Universal Firmware Package for Drives - MO000960RXKRC, MO001920RXKRH, MO003840RXKRK, VO000960RXKRB, VO001920RXKRD and VO003840RXKRE                                  | Seagate_LangeBP_SL NGBPHPESD5.fwpkg | MO001920RXKRH  | HPD5     | HPD5 |
| 516 | Universal Firmware Package for Drives - MO000960RXKRC, MO001920RXKRH, MO003840RXKRK, VO000960RXKRB, VO001920RXKRD and VO003840RXKRE                                  | Seagate_LangeBP_SL NGBPHPESD5.fwpkg | MO003840RXKRK  | HPD5     | HPD5 |
| 517 | Universal Firmware Package for Drives - MO000960RXKRC, MO001920RXKRH, MO003840RXKRK, VO000960RXKRB, VO001920RXKRD and VO003840RXKRE                                  | Seagate_LangeBP_SL NGBPHPESD5.fwpkg | VO000960RXKRB  | HPD5     | HPD5 |
| 518 | Universal Firmware Package for Drives - MO000960RXKRC, MO001920RXKRH, MO003840RXKRK, VO000960RXKRB, VO001920RXKRD and VO003840RXKRE                                  | Seagate_LangeBP_SL NGBPHPESD5.fwpkg | VO001920RXKRD  | HPD5     | HPD5 |
| 519 | Universal Firmware Package for Drives - MO000960RXKRC, MO001920RXKRH, MO003840RXKRK, VO000960RXKRB, VO001920RXKRD and VO003840RXKRE                                  | Seagate_LangeBP_SL NGBPHPESD5.fwpkg | VO003840RXKRE  | HPD5     | HPD5 |
| 520 | Universal Firmware Package for Drives - MO000960RXRQK, MO001920RXRRH, MO003840RXRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD                   | Seagate_Cooper_SCO OPRHPESD4.fwpkg  | MO000960RXRQK  | HPD4     | HPD4 |
| 521 | Universal Firmware Package for Drives -                                                                                                                              | Seagate_Cooper_SCO                  | MO001920RXRRH  | HPD4     | HPD4 |

|     |                                                                                                                                                    |                                    |               |      |      |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------|------|------|
|     | MO000960RXRQK, MO001920XRRH, MO003840XRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD                                           | OPRHPESD4.fwpkg                    |               |      |      |
| 522 | Universal Firmware Package for Drives - MO000960RXRQK, MO001920XRRH, MO003840XRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD   | Seagate_Cooper_SCO OPRHPESD4.fwpkg | MO003840XRRK  | HPD4 | HPD4 |
| 523 | Universal Firmware Package for Drives - MO000960RXRQK, MO001920XRRH, MO003840XRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD   | Seagate_Cooper_SCO OPRHPESD4.fwpkg | VO000960RXRQL | HPD4 | HPD4 |
| 524 | Universal Firmware Package for Drives - MO000960RXRQK, MO001920XRRH, MO003840XRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD   | Seagate_Cooper_SCO OPRHPESD4.fwpkg | VO001920RXRRL | HPD4 | HPD4 |
| 525 | Universal Firmware Package for Drives - MO000960RXRQK, MO001920XRRH, MO003840XRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD   | Seagate_Cooper_SCO OPRHPESD4.fwpkg | VO003840RXRRN | HPD4 | HPD4 |
| 526 | Universal Firmware Package for Drives - MO000960RXRQK, MO001920XRRH, MO003840XRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD   | Seagate_Cooper_SCO OPRHPESD4.fwpkg | VO007680RYEWD | HPD4 | HPD4 |
| 527 | Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU | Kioxia_PM7_KAPM7A LSHPD2.fwpkg     | VO015360PXMTU | HPD2 | HPD2 |
| 528 | Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU | Kioxia_PM7_KAPM7A LSHPD2.fwpkg     | VO007680PXMTT | HPD2 | HPD2 |
| 529 | Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU | Kioxia_PM7_KAPM7A LSHPD2.fwpkg     | VO003840PXMTR | HPD2 | HPD2 |
| 530 | Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU | Kioxia_PM7_KAPM7A LSHPD2.fwpkg     | VO001920PXMTL | HPD2 | HPD2 |
| 531 | Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU | Kioxia_PM7_KAPM7A LSHPD2.fwpkg     | MO006400PXMUA | HPD2 | HPD2 |
| 532 | Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU | Kioxia_PM7_KAPM7A LSHPD2.fwpkg     | MO003200PXMTV | HPD2 | HPD2 |
| 533 | Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU | Kioxia_PM7_KAPM7A LSHPD2.fwpkg     | MO001600PXMTN | HPD2 | HPD2 |
| 534 | Universal Firmware Package for Drives - MO001600PZWSH, MO003200PZWSK,                                                                              | Samsung_PM165X_G PM1655SAMD3.fwpk  | MO001600PZWSH | HPD3 | HPD3 |



|     |                                                                                                                                                    |                                     |               |      |      |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------|------|------|
|     | MO000800PZWSF and MO006400PZXFA                                                                                                                    | g                                   |               |      |      |
| 535 | Universal Firmware Package for Drives - MO001600PZWSH, MO003200PZWSK, MO000800PZWSF and MO006400PZXFA                                              | Samsung_PM165X_G PM1655SAMD3.fwpk g | MO003200PZWSK | HPD3 | HPD3 |
| 536 | Universal Firmware Package for Drives - MO001600PZWSH, MO003200PZWSK, MO000800PZWSF and MO006400PZXFA                                              | Samsung_PM165X_G PM1655SAMD3.fwpk g | MO000800PZWSF | HPD3 | HPD3 |
| 537 | Universal Firmware Package for Drives - MO001600PZWSH, MO003200PZWSK, MO000800PZWSF and MO006400PZXFA                                              | Samsung_PM165X_G PM1655SAMD3.fwpk g | MO006400PZXFA | HPD3 | HPD3 |
| 538 | Universal Firmware Package for Drives - VO000960PZWSL, VO001920PZWSN, VO003840PZWSP, VO007680PZXFB and VO015360PZXEU                               | Samsung_PM165X_G PM1653SAMD3.fwpk g | VO000960PZWSL | HPD3 | HPD3 |
| 539 | Universal Firmware Package for Drives - VO000960PZWSL, VO001920PZWSN, VO003840PZWSP, VO007680PZXFB and VO015360PZXEU                               | Samsung_PM165X_G PM1653SAMD3.fwpk g | VO001920PZWSN | HPD3 | HPD3 |
| 540 | Universal Firmware Package for Drives - VO000960PZWSL, VO001920PZWSN, VO003840PZWSP, VO007680PZXFB and VO015360PZXEU                               | Samsung_PM165X_G PM1653SAMD3.fwpk g | VO003840PZWSP | HPD3 | HPD3 |
| 541 | Universal Firmware Package for Drives - VO000960PZWSL, VO001920PZWSN, VO003840PZWSP, VO007680PZXFB and VO015360PZXEU                               | Samsung_PM165X_G PM1653SAMD3.fwpk g | VO007680PZXFB | HPD3 | HPD3 |
| 542 | Universal Firmware Package for Drives - VO000960PZWSL, VO001920PZWSN, VO003840PZWSP, VO007680PZXFB and VO015360PZXEU                               | Samsung_PM165X_G PM1653SAMD3.fwpk g | VO015360PZXEU | HPD3 | HPD3 |
| 543 | Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU | Kioxia_RM6_KARM6A LSHPD1.fwpkg      | VO000960RZWUP | HPD1 | HPD1 |
| 544 | Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU | Kioxia_RM6_KARM6A LSHPD1.fwpkg      | VO000960RZWUQ | HPD1 | HPD1 |
| 545 | Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU | Kioxia_RM6_KARM6A LSHPD1.fwpkg      | VO001920RZWUR | HPD1 | HPD1 |
| 546 | Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU | Kioxia_RM6_KARM6A LSHPD1.fwpkg      | VO001920RZWUV | HPD1 | HPD1 |
| 547 | Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU | Kioxia_RM6_KARM6A LSHPD1.fwpkg      | VO003840RZWUT | HPD1 | HPD1 |
| 548 | Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU | Kioxia_RM6_KARM6A LSHPD1.fwpkg      | VO003840RZWVA | HPD1 | HPD1 |
| 549 | Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU | Kioxia_RM6_KARM6A LSHPD1.fwpkg      | VO007680RZWUU | HPD1 | HPD1 |

|  |                                                                                    |  |  |  |  |
|--|------------------------------------------------------------------------------------|--|--|--|--|
|  | VO001920RZWUR, VO001920RZWUV,<br>VO003840RZWUT, VO003840RZWVA<br>and VO007680RZWUU |  |  |  |  |
|--|------------------------------------------------------------------------------------|--|--|--|--|

## 6.2.15 Firmware – SATA Storage Disk

| No. | Description                                                                                                                          | Package filename                             | Device        | Package Version | Firmware/Driver version |
|-----|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|---------------|-----------------|-------------------------|
| 550 | Online HDD/SSD Flash Component for Linux (x64) - MB001000GWFWK and MB002000GWFWL Drives                                              | firmware-hdd-bfc4af697b-HPG6-11.1.x86_64.rpm | MB001000GWFWK | HPG6 (K)        | HPG6                    |
| 551 | Online HDD/SSD Flash Component for Linux (x64) - MB001000GWFWK and MB002000GWFWL Drives                                              | firmware-hdd-bfc4af697b-HPG6-11.1.x86_64.rpm | MB002000GWFWL | HPG6 (K)        | HPG6                    |
| 552 | Online HDD/SSD Flash Component for Linux (x64) - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives                               | firmware-hdd-d39e7a7e75-HPG1-12.1.x86_64.rpm | MB004000GWFWB | HPG1 (L)        | HPG1                    |
| 553 | Online HDD/SSD Flash Component for Linux (x64) - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives                               | firmware-hdd-d39e7a7e75-HPG1-12.1.x86_64.rpm | MB002000GWFWA | HPG1 (L)        | HPG1                    |
| 554 | Online HDD/SSD Flash Component for Linux (x64) - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives                               | firmware-hdd-d39e7a7e75-HPG1-12.1.x86_64.rpm | MB001000GWJAN | HPG1 (L)        | HPG1                    |
| 555 | Online HDD/SSD Flash Component for Linux (x64) - MB004000GWKGV Drive                                                                 | firmware-hdd-ca21e169e2-HPG1-11.1.x86_64.rpm | MB004000GWKGV | HPG1 (K)        | HPG1                    |
| 556 | Online HDD/SSD Flash Component for Linux (x64) - MB006000GWKGR Drive                                                                 | firmware-hdd-7f2a26e6d0-HPG1-11.1.x86_64.rpm | MB006000GWKGR | HPG1 (K)        | HPG1                    |
| 557 | Online HDD/SSD Flash Component for Linux (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives | firmware-hdd-4fbb6d96e5-HPG2-2.1.x86_64.rpm  | MB010000GYDKP | HPG2 (B)        | HPG2                    |
| 558 | Online HDD/SSD Flash Component for Linux (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives | firmware-hdd-4fbb6d96e5-HPG2-2.1.x86_64.rpm  | MB016000GYDKQ | HPG2 (B)        | HPG2                    |
| 559 | Online HDD/SSD Flash Component for Linux (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives | firmware-hdd-4fbb6d96e5-HPG2-2.1.x86_64.rpm  | MB018000GYDKR | HPG2 (B)        | HPG2                    |
| 560 | Online HDD/SSD Flash Component for Linux (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives | firmware-hdd-4fbb6d96e5-HPG2-2.1.x86_64.rpm  | MB012000GYCJL | HPG2 (B)        | HPG2                    |
| 561 | Online HDD/SSD Flash Component for Linux (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives | firmware-hdd-4fbb6d96e5-HPG2-2.1.x86_64.rpm  | MB014000GYCJT | HPG2 (B)        | HPG2                    |
| 562 | Online HDD/SSD Flash Component for Linux (x64) - MB012000GWDFE Drive                                                                 | firmware-hdd-059b8654a6-HPG5-2.1.x86_64.rpm  | MB012000GWDFE | HPG5 (B)        | HPG5                    |
| 563 | Online HDD/SSD Flash Component for Linux (x64) - MB012000GWTFE and MB014000GWTFE Drives                                              | firmware-hdd-b78255e146-HPG8-4.1.x86_64.rpm  | MB014000GWTFE | HPG8 (D)        | HPG8                    |
| 564 | Online HDD/SSD Flash Component for Linux (x64) - MB012000GWTFE and MB014000GWTFE Drives                                              | firmware-hdd-b78255e146-HPG8-4.1.x86_64.rpm  | MB012000GWTFE | HPG8 (D)        | HPG8                    |

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| 565 | Online HDD/SSD Flash Component for Linux (x64) - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives | firmware-hdd-e0171a2936-HPG4-2.1.x86_64.rpm | MB012000GZYVT | HPG4 (B) | HPG4 |
| 566 | Online HDD/SSD Flash Component for Linux (x64) - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives | firmware-hdd-e0171a2936-HPG4-2.1.x86_64.rpm | MB014000GZYVU | HPG4 (B) | HPG4 |
| 567 | Online HDD/SSD Flash Component for Linux (x64) - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives | firmware-hdd-e0171a2936-HPG4-2.1.x86_64.rpm | MB016000GZYVV | HPG4 (B) | HPG4 |
| 568 | Online HDD/SSD Flash Component for Linux (x64) - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives | firmware-hdd-e0171a2936-HPG4-2.1.x86_64.rpm | MB018000GYCLL | HPG4 (B) | HPG4 |
| 569 | Online HDD/SSD Flash Component for Linux (x64) - MB016000GWXKK Drive                                                  | firmware-hdd-e4f147cdd2-HPG4-3.1.x86_64.rpm | MB016000GWXKK | HPG4 (C) | HPG4 |
| 570 | Online HDD/SSD Flash Component for Linux (x64) - MB018000GXMTK and MB020000GXMTQ Drives                               | firmware-hdd-3496cc4743-HPG2-2.1.x86_64.rpm | MB020000GXMTQ | HPG2 (B) | HPG2 |
| 571 | Online HDD/SSD Flash Component for Linux (x64) - MB018000GXMTK and MB020000GXMTQ Drives                               | firmware-hdd-3496cc4743-HPG2-2.1.x86_64.rpm | MB018000GXMTK | HPG2 (B) | HPG2 |
| 572 | Online HDD/SSD Flash Component for Linux (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives | firmware-hdd-f693ccc138-HPG3-9.1.x86_64.rpm | MK003840GWSSF | HPG3 (I) | HPG3 |
| 573 | Online HDD/SSD Flash Component for Linux (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives | firmware-hdd-f693ccc138-HPG3-9.1.x86_64.rpm | MK001920GWSSE | HPG3 (I) | HPG3 |
| 574 | Online HDD/SSD Flash Component for Linux (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives | firmware-hdd-f693ccc138-HPG3-9.1.x86_64.rpm | MK000960GWSSD | HPG3 (I) | HPG3 |
| 575 | Online HDD/SSD Flash Component for Linux (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives | firmware-hdd-f693ccc138-HPG3-9.1.x86_64.rpm | MK000480GWSSC | HPG3 (I) | HPG3 |
| 576 | Online HDD/SSD Flash Component for Linux (x64) - MK000480GWXFF, MK000960GWXFF, MK001920GWXFK and MK003840GWXFL Drives | firmware-hdd-8e1e8083c5-HPG3-3.1.x86_64.rpm | MK003840GWXFL | HPG3 (C) | HPG3 |
| 577 | Online HDD/SSD Flash Component for Linux (x64) - MK000480GWXFF, MK000960GWXFF, MK001920GWXFK and MK003840GWXFL Drives | firmware-hdd-8e1e8083c5-HPG3-3.1.x86_64.rpm | MK001920GWXFK | HPG3 (C) | HPG3 |
| 578 | Online HDD/SSD Flash Component for Linux (x64) - MK000480GWXFF, MK000960GWXFF, MK001920GWXFK and MK003840GWXFL Drives | firmware-hdd-8e1e8083c5-HPG3-3.1.x86_64.rpm | MK000960GWXFF | HPG3 (C) | HPG3 |
| 579 | Online HDD/SSD Flash Component for Linux (x64) - MK000480GWXFF, MK000960GWXFF, MK001920GWXFK and MK003840GWXFL Drives | firmware-hdd-8e1e8083c5-HPG3-3.1.x86_64.rpm | MK000480GWXFF | HPG3 (C) | HPG3 |
| 580 | Online HDD/SSD Flash Component for Linux (x64) - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV Drives | firmware-hdd-9475583fb5-HPG1-3.1.x86_64.rpm | MK000480GZXRA | HPG1 (C) | HPG1 |
| 581 | Online HDD/SSD Flash Component for Linux (x64) - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV Drives | firmware-hdd-9475583fb5-HPG1-3.1.x86_64.rpm | MK001920GZXRC | HPG1 (C) | HPG1 |
| 582 | Online HDD/SSD Flash Component for                                                                                    | firmware-hdd-                               | MK000960GZXRB | HPG1 (C) | HPG1 |

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|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------|----------|------|
|     | Linux (x64) - MK000480GZXRA, MK000960GZXR, MK001920GZXRC and MK003840GZXRV Drives                                                                                                                | 9475583fb5-HPG1-3.1.x86_64.rpm              |               |          |      |
| 583 | Online HDD/SSD Flash Component for Linux (x64) - MK000480GZXRA, MK000960GZXR, MK001920GZXRC and MK003840GZXRV Drives                                                                             | firmware-hdd-9475583fb5-HPG1-3.1.x86_64.rpm | MK003840GZXRV | HPG1 (C) | HPG1 |
| 584 | Online HDD/SSD Flash Component for Linux (x64) - MM1000GFJTE Drive                                                                                                                               | firmware-hdd-95af9a555e-HPG6-4.1.x86_64.rpm | MM1000GFJTE   | HPG6 (D) | HPG6 |
| 585 | Online HDD/SSD Flash Component for Linux (x64) - MM2000GEFRA Drive                                                                                                                               | firmware-hdd-ec908c3650-HPG9-4.1.x86_64.rpm | MM2000GEFRA   | HPG9 (D) | HPG9 |
| 586 | Online HDD/SSD Flash Component for Linux (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives                                                             | firmware-hdd-db687966b4-HPG4-9.1.x86_64.rpm | VK003840GWSRV | HPG4 (I) | HPG4 |
| 587 | Online HDD/SSD Flash Component for Linux (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives                                                             | firmware-hdd-db687966b4-HPG4-9.1.x86_64.rpm | VK001920GWSRU | HPG4 (I) | HPG4 |
| 588 | Online HDD/SSD Flash Component for Linux (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives                                                             | firmware-hdd-db687966b4-HPG4-9.1.x86_64.rpm | VK000960GWSRT | HPG4 (I) | HPG4 |
| 589 | Online HDD/SSD Flash Component for Linux (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives                                                             | firmware-hdd-db687966b4-HPG4-9.1.x86_64.rpm | VK000480GWSRR | HPG4 (I) | HPG4 |
| 590 | Online HDD/SSD Flash Component for Linux (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives                                                             | firmware-hdd-db687966b4-HPG4-9.1.x86_64.rpm | VK000240GWSRQ | HPG4 (I) | HPG4 |
| 591 | Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTN Drives | firmware-hdd-c566d63ca0-HPG7-3.1.x86_64.rpm | VK003840GWTTD | HPG7 (C) | HPG7 |
| 592 | Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTN Drives | firmware-hdd-c566d63ca0-HPG7-3.1.x86_64.rpm | MK003840GWTTN | HPG7 (C) | HPG7 |
| 593 | Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTN Drives | firmware-hdd-c566d63ca0-HPG7-3.1.x86_64.rpm | VK001920GWTTT | HPG7 (C) | HPG7 |
| 594 | Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTN Drives | firmware-hdd-c566d63ca0-HPG7-3.1.x86_64.rpm | MK001920GWTTT | HPG7 (C) | HPG7 |

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| 595 | Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTT Drives                                                           | firmware-hdd-c566d63ca0-HPG7-3.1.x86_64.rpm | VK000960GWTTB | HPG7 (C) | HPG7 |
| 596 | Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTT Drives                                                           | firmware-hdd-c566d63ca0-HPG7-3.1.x86_64.rpm | MK000960GWTTK | HPG7 (C) | HPG7 |
| 597 | Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTT Drives                                                           | firmware-hdd-c566d63ca0-HPG7-3.1.x86_64.rpm | VK000480GWTTA | HPG7 (C) | HPG7 |
| 598 | Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTT Drives                                                           | firmware-hdd-c566d63ca0-HPG7-3.1.x86_64.rpm | MK000480GWTTT | HPG7 (C) | HPG7 |
| 599 | Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTT Drives                                                           | firmware-hdd-c566d63ca0-HPG7-3.1.x86_64.rpm | VK000240GWTSV | HPG7 (C) | HPG7 |
| 600 | Online HDD/SSD Flash Component for Linux (x64) - VK000240GXAW, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBB, MR000480GXBGH and MR000960GXBGK Drives | firmware-hdd-8f9bf23306-HPG1-8.1.x86_64.rpm | VK000240GXAW  | HPG1 (H) | HPG1 |
| 601 | Online HDD/SSD Flash Component for Linux (x64) - VK000240GXAW, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBB, MR000480GXBGH and MR000960GXBGK Drives | firmware-hdd-8f9bf23306-HPG1-8.1.x86_64.rpm | VK000480GXAWK | HPG1 (H) | HPG1 |
| 602 | Online HDD/SSD Flash Component for Linux (x64) - VK000240GXAW, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBB, MR000480GXBGH and MR000960GXBGK Drives | firmware-hdd-8f9bf23306-HPG1-8.1.x86_64.rpm | VK000960GXAWL | HPG1 (H) | HPG1 |
| 603 | Online HDD/SSD Flash Component for Linux (x64) - VK000240GXAW, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP,                                                                                                                                 | firmware-hdd-8f9bf23306-HPG1-8.1.x86_64.rpm | VK003840GXAWP | HPG1 (H) | HPG1 |

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|     | VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives                                                                                                                             |                                             |               |          |      |
| 604 | Online HDD/SSD Flash Component for Linux (x64) - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives | firmware-hdd-8f9bf23306-HPG1-8.1.x86_64.rpm | VK007680GXAWQ | HPG1 (H) | HPG1 |
| 605 | Online HDD/SSD Flash Component for Linux (x64) - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives | firmware-hdd-8f9bf23306-HPG1-8.1.x86_64.rpm | MK000480GXAWF | HPG1 (H) | HPG1 |
| 606 | Online HDD/SSD Flash Component for Linux (x64) - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives | firmware-hdd-8f9bf23306-HPG1-8.1.x86_64.rpm | MK000960GXAXB | HPG1 (H) | HPG1 |
| 607 | Online HDD/SSD Flash Component for Linux (x64) - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives | firmware-hdd-8f9bf23306-HPG1-8.1.x86_64.rpm | MK001920GXAWR | HPG1 (H) | HPG1 |
| 608 | Online HDD/SSD Flash Component for Linux (x64) - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives | firmware-hdd-8f9bf23306-HPG1-8.1.x86_64.rpm | MK003840GXAWT | HPG1 (H) | HPG1 |
| 609 | Online HDD/SSD Flash Component for Linux (x64) - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives | firmware-hdd-8f9bf23306-HPG1-8.1.x86_64.rpm | VR000240GXBBL | HPG1 (H) | HPG1 |
| 610 | Online HDD/SSD Flash Component for Linux (x64) - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives | firmware-hdd-8f9bf23306-HPG1-8.1.x86_64.rpm | MR000480GXBGH | HPG1 (H) | HPG1 |

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|     | MR000480GXBGH and<br>MR000960GXBGK Drives                                                                                                                                                                                                                                            |                                                     |               |          |      |
| 611 | Online HDD/SSD Flash Component for<br>Linux (x64) - VK000240GXAWF,<br>VK000480GXAWK, VK000960GXAWL,<br>VK001920GXAWN, VK003840GXAWP,<br>VK007680GXAWQ, MK000480GXAWF,<br>MK000960GXAXB, MK001920GXAWR,<br>MK003840GXAWT, VR000240GXBBL,<br>MR000480GXBGH and<br>MR000960GXBGK Drives | firmware-hdd-<br>8f9bf23306-HPG1-<br>8.1.x86_64.rpm | MR000960GXBGK | HPG1 (H) | HPG1 |
| 612 | Online HDD/SSD Flash Component for<br>Linux (x64) - VK000240GXAWF,<br>VK000480GXAWK, VK000960GXAWL,<br>VK001920GXAWN, VK003840GXAWP,<br>VK007680GXAWQ, MK000480GXAWF,<br>MK000960GXAXB, MK001920GXAWR,<br>MK003840GXAWT, VR000240GXBBL,<br>MR000480GXBGH and<br>MR000960GXBGK Drives | firmware-hdd-<br>8f9bf23306-HPG1-<br>8.1.x86_64.rpm | VK001920GXAWN | HPG1 (H) | HPG1 |
| 613 | Online HDD/SSD Flash Component for<br>Linux (x64) - VK000240GZXRU,<br>VK000480GZXRF, VK000960GZXQU,<br>VK001920GZXQV, VK003840GZXRH and<br>VK007680GZXRT Drives                                                                                                                      | firmware-hdd-<br>abd133f0de-HPG1-<br>3.1.x86_64.rpm | VK001920GZXQV | HPG1 (C) | HPG1 |
| 614 | Online HDD/SSD Flash Component for<br>Linux (x64) - VK000240GZXRU,<br>VK000480GZXRF, VK000960GZXQU,<br>VK001920GZXQV, VK003840GZXRH and<br>VK007680GZXRT Drives                                                                                                                      | firmware-hdd-<br>abd133f0de-HPG1-<br>3.1.x86_64.rpm | VK003840GZXRH | HPG1 (C) | HPG1 |
| 615 | Online HDD/SSD Flash Component for<br>Linux (x64) - VK000240GZXRU,<br>VK000480GZXRF, VK000960GZXQU,<br>VK001920GZXQV, VK003840GZXRH and<br>VK007680GZXRT Drives                                                                                                                      | firmware-hdd-<br>abd133f0de-HPG1-<br>3.1.x86_64.rpm | VK007680GZXRT | HPG1 (C) | HPG1 |
| 616 | Online HDD/SSD Flash Component for<br>Linux (x64) - VK000240GZXRU,<br>VK000480GZXRF, VK000960GZXQU,<br>VK001920GZXQV, VK003840GZXRH and<br>VK007680GZXRT Drives                                                                                                                      | firmware-hdd-<br>abd133f0de-HPG1-<br>3.1.x86_64.rpm | VK000960GZXQU | HPG1 (C) | HPG1 |
| 617 | Online HDD/SSD Flash Component for<br>Linux (x64) - VK000240GZXRU,<br>VK000480GZXRF, VK000960GZXQU,<br>VK001920GZXQV, VK003840GZXRH and<br>VK007680GZXRT Drives                                                                                                                      | firmware-hdd-<br>abd133f0de-HPG1-<br>3.1.x86_64.rpm | VK000480GZXRF | HPG1 (C) | HPG1 |
| 618 | Online HDD/SSD Flash Component for<br>Linux (x64) - VK000240GZXRU,<br>VK000480GZXRF, VK000960GZXQU,<br>VK001920GZXQV, VK003840GZXRH and<br>VK007680GZXRT Drives                                                                                                                      | firmware-hdd-<br>abd133f0de-HPG1-<br>3.1.x86_64.rpm | VK000240GZXRU | HPG1 (C) | HPG1 |
| 619 | Online HDD/SSD Flash Component for<br>Linux (x64) - VK000480GZCNE,<br>VK000960GZCNF, VK001920GZCNH and<br>VK003840GZCNK Drives                                                                                                                                                       | firmware-hdd-<br>befd42bd64-HPG3-<br>3.1.x86_64.rpm | VK000480GZCNE | HPG3 (C) | HPG3 |
| 620 | Online HDD/SSD Flash Component for<br>Linux (x64) - VK000480GZCNE,<br>VK000960GZCNF, VK001920GZCNH and<br>VK003840GZCNK Drives                                                                                                                                                       | firmware-hdd-<br>befd42bd64-HPG3-<br>3.1.x86_64.rpm | VK000960GZCNF | HPG3 (C) | HPG3 |
| 621 | Online HDD/SSD Flash Component for<br>Linux (x64) - VK000480GZCNE,<br>VK000960GZCNF, VK001920GZCNH and<br>VK003840GZCNK Drives                                                                                                                                                       | firmware-hdd-<br>befd42bd64-HPG3-<br>3.1.x86_64.rpm | VK001920GZCNH | HPG3 (C) | HPG3 |
| 622 | Online HDD/SSD Flash Component for<br>Linux (x64) - VK000480GZCNE,<br>VK000960GZCNF, VK001920GZCNH and<br>VK003840GZCNK Drives                                                                                                                                                       | firmware-hdd-<br>befd42bd64-HPG3-<br>3.1.x86_64.rpm | VK003840GZCNK | HPG3 (C) | HPG3 |

|     |                                                                                                                                      |              |               |          |      |
|-----|--------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|----------|------|
| 623 | Online HDD/SSD Flash Component for VMware ESXi - MB001000GWFWK and MB002000GWFWL Drives                                              | CP061411.zip | MB001000GWFWK | HPG6 (J) | HPG6 |
| 624 | Online HDD/SSD Flash Component for VMware ESXi - MB001000GWFWK and MB002000GWFWL Drives                                              | CP061411.zip | MB002000GWFWL | HPG6 (J) | HPG6 |
| 625 | Online HDD/SSD Flash Component for VMware ESXi - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives                               | CP061412.zip | MB004000GWFWB | HPG1 (J) | HPG1 |
| 626 | Online HDD/SSD Flash Component for VMware ESXi - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives                               | CP061412.zip | MB002000GWFWA | HPG1 (J) | HPG1 |
| 627 | Online HDD/SSD Flash Component for VMware ESXi - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives                               | CP061412.zip | MB001000GWJAN | HPG1 (J) | HPG1 |
| 628 | Online HDD/SSD Flash Component for VMware ESXi - MB004000GWKGV Drive                                                                 | CP061415.zip | MB004000GWKGV | HPG1 (J) | HPG1 |
| 629 | Online HDD/SSD Flash Component for VMware ESXi - MB006000GWKGR Drive                                                                 | CP061414.zip | MB006000GWKGR | HPG1 (J) | HPG1 |
| 630 | Online HDD/SSD Flash Component for VMware ESXi - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives | CP061556.zip | MB010000GYDKP | HPG2 (B) | HPG2 |
| 631 | Online HDD/SSD Flash Component for VMware ESXi - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives | CP061556.zip | MB016000GYDKQ | HPG2 (B) | HPG2 |
| 632 | Online HDD/SSD Flash Component for VMware ESXi - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives | CP061556.zip | MB018000GYDKR | HPG2 (B) | HPG2 |
| 633 | Online HDD/SSD Flash Component for VMware ESXi - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives | CP061556.zip | MB012000GYCJL | HPG2 (B) | HPG2 |
| 634 | Online HDD/SSD Flash Component for VMware ESXi - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives | CP061556.zip | MB014000GYCJT | HPG2 (B) | HPG2 |
| 635 | Online HDD/SSD Flash Component for VMware ESXi - MB012000GWDFE Drive                                                                 | CP061423.zip | MB012000GWDFE | HPG5 (B) | HPG5 |
| 636 | Online HDD/SSD Flash Component for VMware ESXi - MB012000GWTFE and MB014000GWTFE Drives                                              | CP061422.zip | MB014000GWTFE | HPG8 (B) | HPG8 |
| 637 | Online HDD/SSD Flash Component for VMware ESXi - MB012000GWTFE and MB014000GWTFE Drives                                              | CP061422.zip | MB012000GWTFE | HPG8 (B) | HPG8 |
| 638 | Online HDD/SSD Flash Component for VMware ESXi - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives                | CP061357.zip | MB012000GZYVT | HPG4 (B) | HPG4 |
| 639 | Online HDD/SSD Flash Component for VMware ESXi - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives                | CP061357.zip | MB014000GZYVU | HPG4 (B) | HPG4 |
| 640 | Online HDD/SSD Flash Component for VMware ESXi - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV                                         | CP061357.zip | MB016000GZYVV | HPG4 (B) | HPG4 |



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|-----|------------------------------------------------------------------------------------------------------------------------|--------------|---------------|----------|------|
|     | and MB018000GYCLL Drives                                                                                               |              |               |          |      |
| 641 | Online HDD/SSD Flash Component for VMware ESXi - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives  | CP061357.zip | MB018000GYCLL | HPG4 (B) | HPG4 |
| 642 | Online HDD/SSD Flash Component for VMware ESXi - MB016000GWXKK Drive                                                   | CP061447.zip | MB016000GWXKK | HPG4 (B) | HPG4 |
| 643 | Online HDD/SSD Flash Component for VMware ESXi - MB018000GXMTK and MB020000GXMTQ Drives                                | CP061572.zip | MB020000GXMTQ | HPG2 (B) | HPG2 |
| 644 | Online HDD/SSD Flash Component for VMware ESXi - MB018000GXMTK and MB020000GXMTQ Drives                                | CP061572.zip | MB018000GXMTK | HPG2 (B) | HPG2 |
| 645 | Online HDD/SSD Flash Component for VMware ESXi - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives  | CP061434.zip | MK003840GWSSC | HPG3 (G) | HPG3 |
| 646 | Online HDD/SSD Flash Component for VMware ESXi - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives  | CP061434.zip | MK001920GWSSE | HPG3 (G) | HPG3 |
| 647 | Online HDD/SSD Flash Component for VMware ESXi - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives  | CP061434.zip | MK000960GWSSD | HPG3 (G) | HPG3 |
| 648 | Online HDD/SSD Flash Component for VMware ESXi - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives  | CP061434.zip | MK000480GWSSC | HPG3 (G) | HPG3 |
| 649 | Online HDD/SSD Flash Component for VMware ESXi - MK000480GWXFF, MK000960GWXFF, MK001920GWXFK and MK003840GWXFL Drives  | CP061347.zip | MK003840GWXFL | HPG3 (B) | HPG3 |
| 650 | Online HDD/SSD Flash Component for VMware ESXi - MK000480GWXFF, MK000960GWXFF, MK001920GWXFK and MK003840GWXFL Drives  | CP061347.zip | MK001920GWXFK | HPG3 (B) | HPG3 |
| 651 | Online HDD/SSD Flash Component for VMware ESXi - MK000480GWXFF, MK000960GWXFF, MK001920GWXFK and MK003840GWXFL Drives  | CP061347.zip | MK000960GWXFF | HPG3 (B) | HPG3 |
| 652 | Online HDD/SSD Flash Component for VMware ESXi - MK000480GWXFF, MK000960GWXFF, MK001920GWXFK and MK003840GWXFL Drives  | CP061347.zip | MK000480GWXFF | HPG3 (B) | HPG3 |
| 653 | Online HDD/SSD Flash Component for VMware ESXi - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV Drives. | CP061456.zip | MK000480GZXRA | HPG1 (B) | HPG1 |
| 654 | Online HDD/SSD Flash Component for VMware ESXi - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV Drives. | CP061456.zip | MK001920GZXRC | HPG1 (B) | HPG1 |
| 655 | Online HDD/SSD Flash Component for VMware ESXi - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV Drives. | CP061456.zip | MK000960GZXRB | HPG1 (B) | HPG1 |
| 656 | Online HDD/SSD Flash Component for VMware ESXi - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV Drives. | CP061456.zip | MK003840GZXRV | HPG1 (B) | HPG1 |
| 657 | Online HDD/SSD Flash Component for VMware ESXi - MM1000GFJTE Drive                                                     | CP061426.zip | MM1000GFJTE   | HPG6 (D) | HPG6 |
| 658 | Online HDD/SSD Flash Component for VMware ESXi - MM2000GEFRA Drive                                                     | CP061425.zip | MM2000GEFRA   | HPG9 (D) | HPG9 |
| 659 | Online HDD/SSD Flash Component for                                                                                     | CP061435.zip | VK003840GWSRV | HPG4 (G) | HPG4 |

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|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|----------|------|
|     | VMware ESXi - VK000240GWSRQ,<br>VK000480GWSRR, VK000960GWSRT,<br>VK001920GWSRU, VK003840GWSRV<br>Drives                                                                                                            |              |               |          |      |
| 660 | Online HDD/SSD Flash Component for<br>VMware ESXi - VK000240GWSRQ,<br>VK000480GWSRR, VK000960GWSRT,<br>VK001920GWSRU, VK003840GWSRV<br>Drives                                                                      | CP061435.zip | VK001920GWSRU | HPG4 (G) | HPG4 |
| 661 | Online HDD/SSD Flash Component for<br>VMware ESXi - VK000240GWSRQ,<br>VK000480GWSRR, VK000960GWSRT,<br>VK001920GWSRU, VK003840GWSRV<br>Drives                                                                      | CP061435.zip | VK000960GWSRT | HPG4 (G) | HPG4 |
| 662 | Online HDD/SSD Flash Component for<br>VMware ESXi - VK000240GWSRQ,<br>VK000480GWSRR, VK000960GWSRT,<br>VK001920GWSRU, VK003840GWSRV<br>Drives                                                                      | CP061435.zip | VK000480GWSRR | HPG4 (G) | HPG4 |
| 663 | Online HDD/SSD Flash Component for<br>VMware ESXi - VK000240GWSRQ,<br>VK000480GWSRR, VK000960GWSRT,<br>VK001920GWSRU, VK003840GWSRV<br>Drives                                                                      | CP061435.zip | VK000240GWSRQ | HPG4 (G) | HPG4 |
| 664 | Online HDD/SSD Flash Component for<br>VMware ESXi - VK000240GWTSV,<br>VK000480GWTTA, VK000960GWTTB,<br>VK001920GWTTT, VK003840GWTTD,<br>MK000480GWTTT, MK000960GWTTK,<br>MK001920GWTTT and<br>MK003840GWTTT Drives | CP061551.zip | VK003840GWTTD | HPG7 (C) | HPG7 |
| 665 | Online HDD/SSD Flash Component for<br>VMware ESXi - VK000240GWTSV,<br>VK000480GWTTA, VK000960GWTTB,<br>VK001920GWTTT, VK003840GWTTD,<br>MK000480GWTTT, MK000960GWTTK,<br>MK001920GWTTT and<br>MK003840GWTTT Drives | CP061551.zip | MK003840GWTTT | HPG7 (C) | HPG7 |
| 666 | Online HDD/SSD Flash Component for<br>VMware ESXi - VK000240GWTSV,<br>VK000480GWTTA, VK000960GWTTB,<br>VK001920GWTTT, VK003840GWTTD,<br>MK000480GWTTT, MK000960GWTTK,<br>MK001920GWTTT and<br>MK003840GWTTT Drives | CP061551.zip | VK001920GWTTT | HPG7 (C) | HPG7 |
| 667 | Online HDD/SSD Flash Component for<br>VMware ESXi - VK000240GWTSV,<br>VK000480GWTTA, VK000960GWTTB,<br>VK001920GWTTT, VK003840GWTTD,<br>MK000480GWTTT, MK000960GWTTK,<br>MK001920GWTTT and<br>MK003840GWTTT Drives | CP061551.zip | MK001920GWTTT | HPG7 (C) | HPG7 |
| 668 | Online HDD/SSD Flash Component for<br>VMware ESXi - VK000240GWTSV,<br>VK000480GWTTA, VK000960GWTTB,<br>VK001920GWTTT, VK003840GWTTD,<br>MK000480GWTTT, MK000960GWTTK,<br>MK001920GWTTT and<br>MK003840GWTTT Drives | CP061551.zip | VK000960GWTTB | HPG7 (C) | HPG7 |
| 669 | Online HDD/SSD Flash Component for<br>VMware ESXi - VK000240GWTSV,<br>VK000480GWTTA, VK000960GWTTB,<br>VK001920GWTTT, VK003840GWTTD,<br>MK000480GWTTT, MK000960GWTTK,<br>MK001920GWTTT and<br>MK003840GWTTT Drives | CP061551.zip | MK000960GWTTK | HPG7 (C) | HPG7 |

|     |                                                                                                                                                                                                                                                            |              |               |          |      |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|----------|------|
| 670 | Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTT Drives                                                           | CP061551.zip | VK000480GWTTA | HPG7 (C) | HPG7 |
| 671 | Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTT Drives                                                           | CP061551.zip | MK000480GWTTT | HPG7 (C) | HPG7 |
| 672 | Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTT Drives                                                           | CP061551.zip | VK000240GWTSV | HPG7 (C) | HPG7 |
| 673 | Online HDD/SSD Flash Component for VMware ESXi - VK000240GXAW, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBB, MR000480GXBGH and MR000960GXBGK Drives | CP061346.zip | VK000240GXAW  | HPG1 (F) | HPG1 |
| 674 | Online HDD/SSD Flash Component for VMware ESXi - VK000240GXAW, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBB, MR000480GXBGH and MR000960GXBGK Drives | CP061346.zip | VK000480GXAWK | HPG1 (F) | HPG1 |
| 675 | Online HDD/SSD Flash Component for VMware ESXi - VK000240GXAW, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBB, MR000480GXBGH and MR000960GXBGK Drives | CP061346.zip | VK000960GXAWL | HPG1 (F) | HPG1 |
| 676 | Online HDD/SSD Flash Component for VMware ESXi - VK000240GXAW, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBB, MR000480GXBGH and MR000960GXBGK Drives | CP061346.zip | VK003840GXAWP | HPG1 (F) | HPG1 |
| 677 | Online HDD/SSD Flash Component for VMware ESXi - VK000240GXAW, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBB, MR000480GXBGH and MR000960GXBGK Drives | CP061346.zip | VK007680GXAWQ | HPG1 (F) | HPG1 |

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|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|----------|------|
| 678 | Online HDD/SSD Flash Component for VMware ESXi - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives | CP061346.zip | MK000480GXAWF | HPG1 (F) | HPG1 |
| 679 | Online HDD/SSD Flash Component for VMware ESXi - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives | CP061346.zip | MK000960GXAXB | HPG1 (F) | HPG1 |
| 680 | Online HDD/SSD Flash Component for VMware ESXi - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives | CP061346.zip | MK001920GXAWR | HPG1 (F) | HPG1 |
| 681 | Online HDD/SSD Flash Component for VMware ESXi - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives | CP061346.zip | MK003840GXAWT | HPG1 (F) | HPG1 |
| 682 | Online HDD/SSD Flash Component for VMware ESXi - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives | CP061346.zip | VR000240GXBBL | HPG1 (F) | HPG1 |
| 683 | Online HDD/SSD Flash Component for VMware ESXi - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives | CP061346.zip | MR000480GXBGH | HPG1 (F) | HPG1 |
| 684 | Online HDD/SSD Flash Component for VMware ESXi - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives | CP061346.zip | MR000960GXBGK | HPG1 (F) | HPG1 |
| 685 | Online HDD/SSD Flash Component for VMware ESXi - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL,                                                                                                                                                                | CP061346.zip | VK001920GXAWN | HPG1 (F) | HPG1 |

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|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|----------|------|
|     | VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives |              |               |          |      |
| 686 | Online HDD/SSD Flash Component for VMware ESXi - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives.           | CP061455.zip | VK001920GZXQV | HPG1 (B) | HPG1 |
| 687 | Online HDD/SSD Flash Component for VMware ESXi - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives.           | CP061455.zip | VK003840GZXRH | HPG1 (B) | HPG1 |
| 688 | Online HDD/SSD Flash Component for VMware ESXi - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives.           | CP061455.zip | VK007680GZXRT | HPG1 (B) | HPG1 |
| 689 | Online HDD/SSD Flash Component for VMware ESXi - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives.           | CP061455.zip | VK000960GZXQU | HPG1 (B) | HPG1 |
| 690 | Online HDD/SSD Flash Component for VMware ESXi - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives.           | CP061455.zip | VK000480GZXRF | HPG1 (B) | HPG1 |
| 691 | Online HDD/SSD Flash Component for VMware ESXi - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives.           | CP061455.zip | VK000240GZXRU | HPG1 (B) | HPG1 |
| 692 | Online HDD/SSD Flash Component for VMware ESXi - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives                                          | CP061327.zip | VK000480GZCNE | HPG3 (B) | HPG3 |
| 693 | Online HDD/SSD Flash Component for VMware ESXi - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives                                          | CP061327.zip | VK000960GZCNF | HPG3 (B) | HPG3 |
| 694 | Online HDD/SSD Flash Component for VMware ESXi - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives                                          | CP061327.zip | VK001920GZCNH | HPG3 (B) | HPG3 |
| 695 | Online HDD/SSD Flash Component for VMware ESXi - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives                                          | CP061327.zip | VK003840GZCNK | HPG3 (B) | HPG3 |
| 696 | Online HDD/SSD Flash Component for Windows (x64) - MB001000GWFWK and MB002000GWFWL Drives                                                                      | cp061438.exe | MB001000GWFWK | HPG6 (I) | HPG6 |
| 697 | Online HDD/SSD Flash Component for Windows (x64) - MB001000GWFWK and MB002000GWFWL Drives                                                                      | cp061438.exe | MB002000GWFWL | HPG6 (I) | HPG6 |
| 698 | Online HDD/SSD Flash Component for Windows (x64) - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives                                                       | cp061578.exe | MB004000GWFWB | HPG1 (I) | HPG1 |
| 699 | Online HDD/SSD Flash Component for Windows (x64) - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives                                                       | cp061578.exe | MB002000GWFWA | HPG1 (I) | HPG1 |

|     |                                                                                                                                        |              |               |          |      |
|-----|----------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|----------|------|
| 700 | Online HDD/SSD Flash Component for Windows (x64) - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives                               | cp061578.exe | MB001000GWJAN | HPG1 (I) | HPG1 |
| 701 | Online HDD/SSD Flash Component for Windows (x64) - MB004000GWKGV Drive                                                                 | cp061440.exe | MB004000GWKGV | HPG1 (I) | HPG1 |
| 702 | Online HDD/SSD Flash Component for Windows (x64) - MB006000GWKGR Drive                                                                 | cp061457.exe | MB006000GWKGR | HPG1 (I) | HPG1 |
| 703 | Online HDD/SSD Flash Component for Windows (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives | cp061524.exe | MB010000GYDKP | HPG2 (B) | HPG2 |
| 704 | Online HDD/SSD Flash Component for Windows (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives | cp061524.exe | MB016000GYDKQ | HPG2 (B) | HPG2 |
| 705 | Online HDD/SSD Flash Component for Windows (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives | cp061524.exe | MB018000GYDKR | HPG2 (B) | HPG2 |
| 706 | Online HDD/SSD Flash Component for Windows (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives | cp061524.exe | MB012000GYCJL | HPG2 (B) | HPG2 |
| 707 | Online HDD/SSD Flash Component for Windows (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives | cp061524.exe | MB014000GYCJT | HPG2 (B) | HPG2 |
| 708 | Online HDD/SSD Flash Component for Windows (x64) - MB012000GWDFE Drive                                                                 | cp061930.exe | MB012000GWDFE | HPG5 (B) | HPG5 |
| 709 | Online HDD/SSD Flash Component for Windows (x64) - MB012000GWTFE and MB014000GWTFE Drives                                              | cp061470.exe | MB014000GWTFE | HPG8 (C) | HPG8 |
| 710 | Online HDD/SSD Flash Component for Windows (x64) - MB012000GWTFE and MB014000GWTFE Drives                                              | cp061470.exe | MB012000GWTFE | HPG8 (C) | HPG8 |
| 711 | Online HDD/SSD Flash Component for Windows (x64) - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives                | cp061363.exe | MB012000GZYVT | HPG4 (B) | HPG4 |
| 712 | Online HDD/SSD Flash Component for Windows (x64) - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives                | cp061363.exe | MB014000GZYVU | HPG4 (B) | HPG4 |
| 713 | Online HDD/SSD Flash Component for Windows (x64) - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives                | cp061363.exe | MB016000GZYVV | HPG4 (B) | HPG4 |
| 714 | Online HDD/SSD Flash Component for Windows (x64) - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives                | cp061363.exe | MB018000GYCLL | HPG4 (B) | HPG4 |
| 715 | Online HDD/SSD Flash Component for Windows (x64) - MB016000GWXKK Drive                                                                 | cp061376.exe | MB016000GWXKK | HPG4 (B) | HPG4 |
| 716 | Online HDD/SSD Flash Component for Windows (x64) - MB018000GXMTQ and MB020000GXMTQ Drives                                              | cp061510.exe | MB020000GXMTQ | HPG2 (B) | HPG2 |

|     |                                                                                                                                        |              |               |          |      |
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| 717 | Online HDD/SSD Flash Component for Windows (x64) - MB018000GXMTK and MB020000GXMTQ Drives                                              | cp061510.exe | MB018000GXMTK | HPG2 (B) | HPG2 |
| 718 | Online HDD/SSD Flash Component for Windows (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives                | cp061499.exe | MK003840GWSSF | HPG3 (G) | HPG3 |
| 719 | Online HDD/SSD Flash Component for Windows (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives                | cp061499.exe | MK001920GWSSE | HPG3 (G) | HPG3 |
| 720 | Online HDD/SSD Flash Component for Windows (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives                | cp061499.exe | MK000960GWSSD | HPG3 (G) | HPG3 |
| 721 | Online HDD/SSD Flash Component for Windows (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives                | cp061499.exe | MK000480GWSSC | HPG3 (G) | HPG3 |
| 722 | Online HDD/SSD Flash Component for Windows (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives                | cp061361.exe | MK003840GWXFL | HPG3 (B) | HPG3 |
| 723 | Online HDD/SSD Flash Component for Windows (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives                | cp061361.exe | MK001920GWXFK | HPG3 (B) | HPG3 |
| 724 | Online HDD/SSD Flash Component for Windows (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives                | cp061361.exe | MK000960GWXFH | HPG3 (B) | HPG3 |
| 725 | Online HDD/SSD Flash Component for Windows (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives                | cp061361.exe | MK000480GWXFF | HPG3 (B) | HPG3 |
| 726 | Online HDD/SSD Flash Component for Windows (x64) - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV Drives                | cp061417.exe | MK000480GZXRA | HPG1 (B) | HPG1 |
| 727 | Online HDD/SSD Flash Component for Windows (x64) - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV Drives                | cp061417.exe | MK001920GZXRC | HPG1 (B) | HPG1 |
| 728 | Online HDD/SSD Flash Component for Windows (x64) - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV Drives                | cp061417.exe | MK000960GZXRB | HPG1 (B) | HPG1 |
| 729 | Online HDD/SSD Flash Component for Windows (x64) - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV Drives                | cp061417.exe | MK003840GZXRV | HPG1 (B) | HPG1 |
| 730 | Online HDD/SSD Flash Component for Windows (x64) - MM1000GFJTE Drive                                                                   | cp061405.exe | MM1000GFJTE   | HPG6 (C) | HPG6 |
| 731 | Online HDD/SSD Flash Component for Windows (x64) - MM2000GEFRA Drive                                                                   | cp061389.exe | MM2000GEFRA   | HPG9 (C) | HPG9 |
| 732 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives | cp061584.exe | VK003840GWSRV | HPG4 (G) | HPG4 |
| 733 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives | cp061584.exe | VK001920GWSRU | HPG4 (G) | HPG4 |
| 734 | Online HDD/SSD Flash Component for                                                                                                     | cp061584.exe | VK000960GWSRT | HPG4 (G) | HPG4 |

|     |                                                                                                                                                                                                    |              |               |          |      |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|----------|------|
|     | Windows (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives                                                                                                |              |               |          |      |
| 735 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives                                                             | cp061584.exe | VK000480GWSRR | HPG4 (G) | HPG4 |
| 736 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives                                                             | cp061584.exe | VK000240GWSRQ | HPG4 (G) | HPG4 |
| 737 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTT Drives | cp061545.exe | VK003840GWTTD | HPG7 (C) | HPG7 |
| 738 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTT Drives | cp061545.exe | MK003840GWTTT | HPG7 (C) | HPG7 |
| 739 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTT Drives | cp061545.exe | VK001920GWTTT | HPG7 (C) | HPG7 |
| 740 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTT Drives | cp061545.exe | MK001920GWTTT | HPG7 (C) | HPG7 |
| 741 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTT Drives | cp061545.exe | VK000960GWTTB | HPG7 (C) | HPG7 |
| 742 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTT Drives | cp061545.exe | MK000960GWTTK | HPG7 (C) | HPG7 |
| 743 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTT Drives | cp061545.exe | VK000480GWTTA | HPG7 (C) | HPG7 |
| 744 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB,                                                                                                    | cp061545.exe | MK000480GWTTT | HPG7 (C) | HPG7 |



|     |                                                                                                                                                                                                                                                                |              |               |          |      |
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|     | VK001920GWTTTC, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTN Drives                                                                                                                                                            |              |               |          |      |
| 745 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTN Drives                                                            | cp061545.exe | VK000240GWTSV | HPG7 (C) | HPG7 |
| 746 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives | cp061511.exe | MR000960GXBGK | HPG1 (F) | HPG1 |
| 747 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives | cp061511.exe | MR000480GXBGH | HPG1 (F) | HPG1 |
| 748 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives | cp061511.exe | VR000240GXBBL | HPG1 (F) | HPG1 |
| 749 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives | cp061511.exe | MK003840GXAWT | HPG1 (F) | HPG1 |
| 750 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives | cp061511.exe | MK001920GXAWR | HPG1 (F) | HPG1 |
| 751 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives | cp061511.exe | MK000960GXAXB | HPG1 (F) | HPG1 |
| 752 | Online HDD/SSD Flash Component for                                                                                                                                                                                                                             | cp061511.exe | MK000480GXAWF | HPG1 (F) | HPG1 |

|     |                                                                                                                                                                                                                                                                |              |               |          |      |
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|     | Windows (x64) - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives                                    |              |               |          |      |
| 753 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives | cp061511.exe | VK007680GXAWQ | HPG1 (F) | HPG1 |
| 754 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives | cp061511.exe | VK003840GXAWP | HPG1 (F) | HPG1 |
| 755 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives | cp061511.exe | VK000960GXAWL | HPG1 (F) | HPG1 |
| 756 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives | cp061511.exe | VK000480GXAWK | HPG1 (F) | HPG1 |
| 757 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives | cp061511.exe | VK000240GXAWF | HPG1 (F) | HPG1 |
| 758 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives | cp061511.exe | VK001920GXAWN | HPG1 (F) | HPG1 |
| 759 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and                                                                                                                               | cp061418.exe | VK001920GZXQV | HPG1 (B) | HPG1 |

|     |                                                                                                                                                       |                                       |               |          |      |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------|----------|------|
|     | VK007680GZXRT Drives                                                                                                                                  |                                       |               |          |      |
| 760 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives | cp061418.exe                          | VK003840GZXRH | HPG1 (B) | HPG1 |
| 761 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives | cp061418.exe                          | VK007680GZXRT | HPG1 (B) | HPG1 |
| 762 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives | cp061418.exe                          | VK000960GZXQU | HPG1 (B) | HPG1 |
| 763 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives | cp061418.exe                          | VK000480GZXRF | HPG1 (B) | HPG1 |
| 764 | Online HDD/SSD Flash Component for Windows (x64) - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives | cp061418.exe                          | VK000240GZXRU | HPG1 (B) | HPG1 |
| 765 | Online HDD/SSD Flash Component for Windows (x64) - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives                               | cp061329.exe                          | VK000480GZCNE | HPG3 (B) | HPG3 |
| 766 | Online HDD/SSD Flash Component for Windows (x64) - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives                               | cp061329.exe                          | VK000960GZCNF | HPG3 (B) | HPG3 |
| 767 | Online HDD/SSD Flash Component for Windows (x64) - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives                               | cp061329.exe                          | VK001920GZCNH | HPG3 (B) | HPG3 |
| 768 | Online HDD/SSD Flash Component for Windows (x64) - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives                               | cp061329.exe                          | VK003840GZCNK | HPG3 (B) | HPG3 |
| 769 | Universal Firmware Package for Drives - MB002000GYDNK and MB004000GYDPD                                                                               | Seagate_CimarronBP_SCIMARBPNTG1.fwpkg | MB002000GYDNK | HPG1     | HPG1 |
| 770 | Universal Firmware Package for Drives - MB002000GYDNK and MB004000GYDPD                                                                               | Seagate_CimarronBP_SCIMARBPNTG1.fwpkg | MB004000GYDPD | HPG1     | HPG1 |
| 771 | Universal Firmware Package for Drives - MB006000GWZVL and MB008000GWZVN                                                                               | Toshiba_MG08Air_TA MG08ADAeG1.fwpkg   | MB006000GWZVL | HPG1     | HPG1 |
| 772 | Universal Firmware Package for Drives - MB006000GWZVL and MB008000GWZVN                                                                               | Toshiba_MG08Air_TA MG08ADAeG1.fwpkg   | MB008000GWZVN | HPG1     | HPG1 |
| 773 | Universal Firmware Package for Drives - MB006000GYDNL, MB008000GYDPE and MB010000GYDNN                                                                | Seagate_CimarronBP_SCIMARBPETG1.fwpkg | MB006000GYDNL | HPG1     | HPG1 |
| 774 | Universal Firmware Package for Drives - MB006000GYDNL, MB008000GYDPE and MB010000GYDNN                                                                | Seagate_CimarronBP_SCIMARBPETG1.fwpkg | MB008000GYDPE | HPG1     | HPG1 |
| 775 | Universal Firmware Package for Drives - MB006000GYDNL, MB008000GYDPE and MB010000GYDNN                                                                | Seagate_CimarronBP_SCIMARBPETG1.fwpkg | MB010000GYDNN | HPG1     | HPG1 |
| 776 | Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK0                                               | Solidigm_S4X20_4IYY HPG3.fwpkg        | MK000480GYCNT | HPG3     | HPG3 |

|     |                                                                                                                                                                                                                                |                                   |               |      |      |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------|------|------|
|     | 00240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GX PQT and VR000480GXPQU                                                                                                        |                                   |               |      |      |
| 777 | Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GX PQT and VR000480GXPQU | Solidigm_S4X20_4IYY<br>HPG3.fwpkg | MK000960GYCNP | HPG3 | HPG3 |
| 778 | Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GX PQT and VR000480GXPQU | Solidigm_S4X20_4IYY<br>HPG3.fwpkg | MK001920GYCNF | HPG3 | HPG3 |
| 779 | Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GX PQT and VR000480GXPQU | Solidigm_S4X20_4IYY<br>HPG3.fwpkg | MK003840GYCNQ | HPG3 | HPG3 |
| 780 | Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GX PQT and VR000480GXPQU | Solidigm_S4X20_4IYY<br>HPG3.fwpkg | VK000240GYCNU | HPG3 | HPG3 |
| 781 | Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GX PQT and VR000480GXPQU | Solidigm_S4X20_4IYY<br>HPG3.fwpkg | VK000480GYCNH | HPG3 | HPG3 |
| 782 | Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GX PQT and VR000480GXPQU | Solidigm_S4X20_4IYY<br>HPG3.fwpkg | VK000960GYCNK | HPG3 | HPG3 |
| 783 | Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GX PQT and VR000480GXPQU | Solidigm_S4X20_4IYY<br>HPG3.fwpkg | VK001920GYCNL | HPG3 | HPG3 |
| 784 | Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GX PQT and VR000480GXPQU | Solidigm_S4X20_4IYY<br>HPG3.fwpkg | VK003840GYCNN | HPG3 | HPG3 |
| 785 | Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GX                       | Solidigm_S4X20_4IYY<br>HPG3.fwpkg | VK007680GYCNE | HPG3 | HPG3 |

|     |                                                                                                                                                                                                                               |                                |               |      |      |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------|------|------|
|     | PQT and VR000480GXPQU                                                                                                                                                                                                         |                                |               |      |      |
| 786 | Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GXPQT and VR000480GXPQU | Solidigm_S4X20_4IYY HPG3.fwpkg | VR000240GXPQT | HPG3 | HPG3 |
| 787 | Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GXPQT and VR000480GXPQU | Solidigm_S4X20_4IYY HPG3.fwpkg | VR000480GXPQU | HPG3 | HPG3 |

## 6.2.16 Firmware – Storage Controller

| No. | Description                                                                                                                                                                              | Package filename                                  | Device                                      | Package Version | Firmware/Driver version |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------|-----------------|-------------------------|
| 788 | Controller Firmware Flash for ESXi7.0 and 8.0 - HPE MR216i-o Gen11 Tri Mode Controller                                                                                                   | CP060621.zip                                      | HPE_MR216i-o_Gen11                          | 52.26.3.5487    | 52.26.3.5487            |
| 789 | Controller Firmware Flash for ESXi7.0 and 8.0 - HPE MR216i-p Gen11 Tri Mode Controller                                                                                                   | CP060622.zip                                      | HPE_MR216i-p_Gen11                          | 52.26.3.5487    | 52.26.3.5487            |
| 790 | Controller Firmware Flash for ESXi7.0 and 8.0 - HPE MR408i-o Gen11 Tri Mode Controller                                                                                                   | CP060623.zip                                      | HPE_MR408i-o_Gen11                          | 52.26.3.5487    | 52.26.3.5487            |
| 791 | Controller Firmware Flash for ESXi7.0 and 8.0 - HPE MR416i-o Gen11 Tri Mode Controller                                                                                                   | CP060620.zip                                      | HPE_MR416i-o_Gen11                          | 52.26.3.5487    | 52.26.3.5487            |
| 792 | Controller Firmware Flash for ESXi7.0 and 8.0 - HPE MR416i-p Gen11 Tri Mode Controller                                                                                                   | CP060619.zip                                      | HPE_MR416i-p_Gen11                          | 52.26.3.5487    | 52.26.3.5487            |
| 793 | Firmware Package - HPE Gen11 Boot Controller NS204i-u, NS204i-d and HPE Gen10 Plus Boot Controller NS204i-p, NS204i-d, NS204i-t, NS204i-r                                                | HPE_NS204i_Gen10P_Gen11_1.2.14.1013_A.fwpkg       | HPE NS204i-u Boot Controller                | 1.2.14.1013     | 1.2.14.1013             |
| 794 | Firmware Package - HPE MR216i-o Gen11 Tri Mode Controller                                                                                                                                | HPE_MR216i-o_Gen11_52.26.3-5487_A.fwpkg           | HPE_MR216i-o_Gen11                          | 52.26.3-5487    | 52.26.3-5487            |
| 795 | Firmware Package - HPE MR216i-p Gen11 Tri Mode Controller                                                                                                                                | HPE_MR216i-p_Gen11_52.26.3-5487_A.fwpkg           | HPE_MR216i-p_Gen11                          | 52.26.3-5487    | 52.26.3-5487            |
| 796 | Firmware Package - HPE MR408i-o Gen11 Tri Mode Controller                                                                                                                                | HPE_MR408i-o_Gen11_52.26.3-5487_A.fwpkg           | HPE_MR408i-o_Gen11                          | 52.26.3-5487    | 52.26.3-5487            |
| 797 | Firmware Package - HPE MR416i-o Gen11 Tri Mode Controller                                                                                                                                | HPE_MR416i-o_Gen11_52.26.3-5487_A.fwpkg           | HPE_MR416i-o_Gen11                          | 52.26.3-5487    | 52.26.3-5487            |
| 798 | Firmware Package - HPE MR416i-p Gen11 Tri Mode Controller                                                                                                                                | HPE_MR416i-p_Gen11_52.26.3-5487_A.fwpkg           | HPE_MR416i-p_Gen11                          | 52.26.3-5487    | 52.26.3-5487            |
| 799 | Firmware Package - HPE SR932i-p Gen10 Plus /SR416i-a Gen10 Plus/SR932i-p Gen11/SR416i-m Gen11 Controllers                                                                                | HPE_SR416_SR932_Gen10P_Gen11_03.01.30.106_A.fwpkg | HPE SR932i-p Gen11                          | 03.01.30.106    | 03.01.30.106            |
| 800 | Firmware Package - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P204i-c, P416i-m and P816i-a SR Gen10 and SR308i-o,SR308i-p Gen11 controllers | HPE_SR_Gen10_7.11_A.fwpkg                         | HPE Smart Array E208e-p SR Gen10 Controller | 7.11            | 7.11                    |

### 6.2.17 Firmware – Storage Fibre Channel

| No. | Description                                                                 | Package filename               | Device                                                      | Package Version | Firmware/Driver version |
|-----|-----------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------|-----------------|-------------------------|
| 801 | HPE Firmware Flash for Emulex 32Gb and 64Gb Fibre Channel Host Bus Adapters | P14.4.329.10_header.pldm.fwpkg | HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter   | 14.4.329.10     | 14.4.329.10             |
| 802 | HPE Firmware Flash for Emulex 32Gb and 64Gb Fibre Channel Host Bus Adapters | P14.4.329.10_header.pldm.fwpkg | HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter | 14.4.329.10     | 14.4.329.10             |
| 803 | HPE Firmware Flash for Emulex 32Gb and 64Gb Fibre Channel Host Bus Adapters | P14.4.329.10_header.pldm.fwpkg | HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter      | 14.4.329.10     | 14.4.329.10             |
| 804 | HPE Firmware Flash for Emulex 32Gb and 64Gb Fibre Channel Host Bus Adapters | P14.4.329.10_header.pldm.fwpkg | HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter      | 14.4.329.10     | 14.4.329.10             |
| 805 | HPE Firmware Flash for QLogic 32Gb and 64Gb Fibre Channel Host Bus Adapters | mh021000.upd_header.pldm.fwpkg | HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter      | 02.10.00        | 02.10.00                |
| 806 | HPE Firmware Flash for QLogic 32Gb and 64Gb Fibre Channel Host Bus Adapters | mh021000.upd_header.pldm.fwpkg | HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter      | 02.10.00        | 02.10.00                |

### 6.2.18 Firmware – System

| No. | Description                                                                                                                                                   | Package filename      | Device                       | Package Version     | Firmware/Driver version |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------|---------------------|-------------------------|
| 807 | Firmware Package - UBM2 Backplane PIC PLDM Firmware for Gen10/Gen10P/Gen11 Servers                                                                            | HPE_UBM2_1.20_E.fwpkg | UBM2 Backplane PIC           | 1.20 (E)            | 1.20                    |
| 808 | Firmware Package - UBM3 Backplane PIC PLDM Firmware for Gen10/Gen10P/Gen11 servers usage                                                                      | HPE_UBM3_1.24_E.fwpkg | UBM3 Backplane PIC           | 1.24 (E)            | 1.24                    |
| 809 | Firmware Package - UBM4 Backplane PIC PLDM Firmware for Gen10/Gen10P/Gen11 servers usage                                                                      | HPE_UBM4_1.24_F.fwpkg | UBM4 Backplane PIC           | 1.24 (F)            | 1.24                    |
| 810 | Firmware Package - UBM5 Backplane PIC PLDM Firmware for Gen11/Gen12 servers usage                                                                             | HPE_UBM5_1.10_A.fwpkg | UBM5 Backplane PIC           | 1.10                | 1.10                    |
| 811 | Firmware Package - UBM6 Backplane PIC PLDM Firmware for Gen10/Gen10P/Gen11 servers usage                                                                      | HPE_UBM6_1.04_A.fwpkg | UBM6 Backplane PIC           | 1.04                | 1.04                    |
| 812 | Firmware Package - UBM7 Backplane PIC PLDM Firmware                                                                                                           | HPE_UBM7_1.10_A.fwpkg | UBM7 Backplane PIC           | 1.10                | 1.10                    |
| 813 | Online ROM Flash Component for Windows x64 - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems | cp062707.exe          | U58 ME Seamless Update Image | 06.01.04.04 7.0     | 6.1.4.47                |
| 814 | Online ROM Flash Component for Windows x64 - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems | cp062616.exe          | U54 ME Seamless Update Image | 06.01.04.04 7.0 (B) | 6.1.4.47                |
| 815 | Online ROM Flash Component for Windows x64 - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems | cp062618.exe          | U59 ME Seamless Update Image | 06.01.04.04 7.0 (B) | 6.1.4.47                |
| 816 | Online ROM Flash Component for Windows x64 - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems | cp062619.exe          | U63 ME Seamless Update Image | 06.01.04.04 7.0 (B) | 6.1.4.47                |

|     |                                                                                                                                               |                                               |                                                                |                     |            |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------|---------------------|------------|
| 817 | Online ROM Flash Component for Windows x64 - Server Platform Services Manageability Engine Firmware for the Intel C262 PCH based systems      | cp060859.exe                                  | Server Platform Services Manageability Engine Firmware for U65 | 06.02.04.03 5.0     | 6.2.4.35.0 |
| 818 | Online ROM Flash for Linux - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems | firmware-u58sps-06.01.04.047.0-1.1.x86_64.rpm | U58 ME Seamless Update Image                                   | 06.01.04.04 7.0     | 6.1.4.47   |
| 819 | Online ROM Flash for Linux - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems | firmware-u59sps-06.01.04.047.0-3.1.x86_64.rpm | U59 ME Seamless Update Image                                   | 06.01.04.04 7.0 (C) | 6.1.4.47   |
| 820 | Online ROM Flash for Linux - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems | firmware-u63sps-06.01.04.047.0-2.1.x86_64.rpm | U63 ME Seamless Update Image                                   | 06.01.04.04 7.0 (B) | 6.1.4.47   |
| 821 | Online ROM Flash for Linux - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems | firmware-u54sps-06.01.04.047.0-2.1.x86_64.rpm | U54 ME Seamless Update Image                                   | 06.01.04.04 7.0 (B) | 6.1.4.47   |
| 822 | Online ROM Flash for Linux - Server Platform Services Manageability Engine Firmware for the Intel C262 PCH based systems                      | firmware-u65sps-06.02.04.035.0-2.1.x86_64.rpm | Server Platform Services Manageability Engine Firmware for U65 | 06.02.04.03 5.0 (B) | 6.2.4.35.0 |
| 823 | ROM Flash Firmware Package - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems | OEM.SC_U59_ME_06.01.04.047.0.fwpkg            | U59 ME Seamless Update Image                                   | 06.01.04.04 7.0     | 6.1.4.47   |
| 824 | ROM Flash Firmware Package - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems | OEM.SC_U63_ME_06.01.04.047.0.fwpkg            | U63 ME Seamless Update Image                                   | 06.01.04.04 7.0     | 6.1.4.47   |
| 825 | ROM Flash Firmware Package - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems | OEM.SC_U54_ME_06.01.04.047.0.fwpkg            | U54 ME Seamless Update Image                                   | 06.01.04.04 7.0     | 6.1.4.47   |
| 826 | ROM Flash Firmware Package - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems | OEM.SC_U58_ME_06.01.04.047.0.fwpkg            | U58 ME Seamless Update Image                                   | 06.01.04.04 7.0     | 6.1.4.47   |
| 827 | ROM Flash Firmware Package - Server Platform Services Manageability Engine Firmware for the Intel C262 PCH based systems                      | OEM.SC_U65_ME_06.02.04.035.0.fwpkg            | Server Platform Services Firmware for DL20 ML30 MS Gen11       | 06.02.04.03 5.0     | 6.2.4.35   |

### 6.2.19 Software - Lights-Out Management

| No. | Description                                                          | Package filename           | Device | Package Version | Firmware/Driver version |
|-----|----------------------------------------------------------------------|----------------------------|--------|-----------------|-------------------------|
| 828 | HPE Lights-Out Online Configuration Utility for Linux (AMD64/EM64T)  | hponcfg-6.0.0-0.x86_64.rpm | -      | 6.0.0-0 (A)     | 6.0.0-0                 |
| 829 | HPE Lights-Out Online Configuration Utility for Windows x64 Editions | cp049814.exe               | -      | 6.0.0.0         | 6.0.0.0                 |

### 6.2.20 Software - Management

| No. | Description                                                                  | Package filename | Device | Package Version | Firmware/Driver version |
|-----|------------------------------------------------------------------------------|------------------|--------|-----------------|-------------------------|
| 830 | HPE Fiber Channel and Storage Enablement Bundle Smart Component for ESXi 7.0 | cp062084.zip     | -      | 2024.09.01      | 700.3.9.0.4-1           |
| 831 | HPE Fiber Channel and Storage Enablement Bundle Smart Component for ESXi 8.0 | cp062083.zip     | -      | 2024.09.01      | 800.3.9.0.30-1          |
| 832 | HPE iLO Driver Bundle Smart                                                  | cp062952.zip     | -      | 2024.09.00      | 700.10.8.2.2-           |

|     |                                                                                                           |              |                                             |            |                           |
|-----|-----------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------|------------|---------------------------|
|     | Component for ESXi 7.0 and ESXi 8.0                                                                       |              |                                             |            | 10EM.700.1.0<br>.15843807 |
| 833 | Smart Storage Administrator (SSA) CLI Smart Component for ESXi 7.0 for Gen10/Gen10 Plus/Gen11 Controllers | cp059214.zip | HPE Smart Array E208e-p SR Gen10 Controller | 2024.10.01 | 6.40.6.0-7.0.0            |
| 834 | Smart Storage Administrator (SSA) CLI Smart Component for ESXi 7.0 for Gen10/Gen10 Plus/Gen11 Controllers | cp059214.zip | Smart Array S100i SR                        | 2024.10.01 | 6.40.6.0-7.0.0            |
| 835 | Smart Storage Administrator (SSA) CLI Smart Component for ESXi 7.0 for Gen10/Gen10 Plus/Gen11 Controllers | cp059214.zip | Smart Array S100i SR                        | 2024.10.01 | 6.40.6.0-7.0.0            |
| 836 | Smart Storage Administrator (SSA) CLI Smart Component for ESXi 7.0 for Gen10/Gen10 Plus/Gen11 Controllers | cp059214.zip | Smart Array S100i SR                        | 2024.10.01 | 6.40.6.0-7.0.0            |
| 837 | Smart Storage Administrator (SSA) CLI Smart Component for ESXi 7.0 for Gen10/Gen10 Plus/Gen11 Controllers | cp059214.zip | HPE SR932i-p Gen11                          | 2024.10.01 | 6.40.6.0-7.0.0            |
| 838 | Smart Storage Administrator (SSA) CLI Smart Component for ESXi 8.0 for Gen10/Gen10 Plus/Gen11 Controllers | cp059215.zip | HPE Smart Array E208e-p SR Gen10 Controller | 2024.10.01 | 6.40.6.0-8.0.0            |
| 839 | Smart Storage Administrator (SSA) CLI Smart Component for ESXi 8.0 for Gen10/Gen10 Plus/Gen11 Controllers | cp059215.zip | Smart Array S100i SR                        | 2024.10.01 | 6.40.6.0-8.0.0            |
| 840 | Smart Storage Administrator (SSA) CLI Smart Component for ESXi 8.0 for Gen10/Gen10 Plus/Gen11 Controllers | cp059215.zip | Smart Array S100i SR                        | 2024.10.01 | 6.40.6.0-8.0.0            |
| 841 | Smart Storage Administrator (SSA) CLI Smart Component for ESXi 8.0 for Gen10/Gen10 Plus/Gen11 Controllers | cp059215.zip | Smart Array S100i SR                        | 2024.10.01 | 6.40.6.0-8.0.0            |
| 842 | Smart Storage Administrator (SSA) CLI Smart Component for ESXi 8.0 for Gen10/Gen10 Plus/Gen11 Controllers | cp059215.zip | HPE SR932i-p Gen11                          | 2024.10.01 | 6.40.6.0-8.0.0            |

## 6.2.21 Software – Storage Controller

| No. | Description                                                                                 | Package filename | Device             | Package Version | Firmware/Driver version   |
|-----|---------------------------------------------------------------------------------------------|------------------|--------------------|-----------------|---------------------------|
| 843 | HPE MegaRAID Storage Administrator StorCLI for VMware7.0 (For Gen10P and Gen11 Controllers) | cp057488.zip     | HPE_MR416i-o_Gen11 | 2023.12.01      | 007.2613.000<br>0.0000-01 |
| 844 | HPE MegaRAID Storage Administrator StorCLI for VMware7.0 (For Gen10P and Gen11 Controllers) | cp057488.zip     | HPE_MR416i-p_Gen11 | 2023.12.01      | 007.2613.000<br>0.0000-01 |
| 845 | HPE MegaRAID Storage Administrator StorCLI for VMware7.0 (For Gen10P and Gen11 Controllers) | cp057488.zip     | HPE_MR216i-o_Gen11 | 2023.12.01      | 007.2613.000<br>0.0000-01 |
| 846 | HPE MegaRAID Storage Administrator StorCLI for VMware7.0 (For Gen10P and Gen11 Controllers) | cp057488.zip     | HPE_MR408i-o_Gen11 | 2023.12.01      | 007.2613.000<br>0.0000-01 |
| 847 | HPE MegaRAID Storage Administrator StorCLI for VMware7.0 (For Gen10P and Gen11 Controllers) | cp057488.zip     | HPE_MR216i-p_Gen11 | 2023.12.01      | 007.2613.000<br>0.0000-01 |
| 848 | HPE MegaRAID Storage Administrator StorCLI for VMware8.0 (For Gen10P and Gen11 Controllers) | cp060804.zip     | HPE_MR416i-o_Gen11 | 2024.06.01      | 007.2613.000<br>0.0000-02 |
| 849 | HPE MegaRAID Storage Administrator StorCLI for VMware8.0 (For Gen10P and Gen11 Controllers) | cp060804.zip     | HPE_MR416i-p_Gen11 | 2024.06.01      | 007.2613.000<br>0.0000-02 |
| 850 | HPE MegaRAID Storage Administrator StorCLI for VMware8.0 (For Gen10P and Gen11 Controllers) | cp060804.zip     | HPE_MR216i-o_Gen11 | 2024.06.01      | 007.2613.000<br>0.0000-02 |
| 851 | HPE MegaRAID Storage Administrator StorCLI for VMware8.0 (For Gen10P and Gen11 Controllers) | cp060804.zip     | HPE_MR408i-o_Gen11 | 2024.06.01      | 007.2613.000<br>0.0000-02 |
| 852 | HPE MegaRAID Storage Administrator                                                          | cp060804.zip     | HPE_MR216i-        | 2024.06.01      | 007.2613.000              |



|  |                                                          |  |         |  |           |
|--|----------------------------------------------------------|--|---------|--|-----------|
|  | StorCLI for VMware8.0 (For Gen10P and Gen11 Controllers) |  | p_Gen11 |  | 0.0000-02 |
|--|----------------------------------------------------------|--|---------|--|-----------|

## 6.2.22 Software – Storage Fibre Channel

| No. | Description                                                                                                        | Package filename                                               | Device                                                      | Package Version | Firmware/Driver version |
|-----|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------|-----------------|-------------------------|
| 853 | Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux - Red Hat Enterprise Linux (RHEL)             | fibreutils-4.2-1_rhel.x86_64.rpm                               | HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter   | 4.2-1 (c)       | 4.2-1_rhel              |
| 854 | Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux - Red Hat Enterprise Linux (RHEL)             | fibreutils-4.2-1_rhel.x86_64.rpm                               | HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter | 4.2-1 (c)       | 4.2-1_rhel              |
| 855 | Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux - Red Hat Enterprise Linux (RHEL)             | fibreutils-4.2-1_rhel.x86_64.rpm                               | HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter      | 4.2-1 (c)       | 4.2-1_rhel              |
| 856 | Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux - Red Hat Enterprise Linux (RHEL)             | fibreutils-4.2-1_rhel.x86_64.rpm                               | HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter      | 4.2-1 (c)       | 4.2-1_rhel              |
| 857 | Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux - Red Hat Enterprise Linux (RHEL)             | fibreutils-4.2-1_rhel.x86_64.rpm                               | HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter      | 4.2-1 (c)       | 4.2-1_rhel              |
| 858 | Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux - Red Hat Enterprise Linux (RHEL)             | fibreutils-4.2-1_rhel.x86_64.rpm                               | HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter      | 4.2-1 (c)       | 4.2-1_rhel              |
| 859 | HPE Emulex Fibre Channel Enablement Kit for Host Bus Adapters for Red Hat Enterprise Linux 8 Server                | HPE-CNA-FC-Emulex-Enablement-Kit-14.4.329.3-1.rhel8.x86_64.rpm | HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter   | 14.4.329.3      | 14.4.329.3-1.rhel8      |
| 860 | HPE Emulex Fibre Channel Enablement Kit for Host Bus Adapters for Red Hat Enterprise Linux 8 Server                | HPE-CNA-FC-Emulex-Enablement-Kit-14.4.329.3-1.rhel8.x86_64.rpm | HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter | 14.4.329.3      | 14.4.329.3-1.rhel8      |
| 861 | HPE Emulex Fibre Channel Enablement Kit for Host Bus Adapters for Red Hat Enterprise Linux 8 Server                | HPE-CNA-FC-Emulex-Enablement-Kit-14.4.329.3-1.rhel8.x86_64.rpm | HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter      | 14.4.329.3      | 14.4.329.3-1.rhel8      |
| 862 | HPE Emulex Fibre Channel Enablement Kit for Host Bus Adapters for Red Hat Enterprise Linux 8 Server                | HPE-CNA-FC-Emulex-Enablement-Kit-14.4.329.3-1.rhel8.x86_64.rpm | HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter      | 14.4.329.3      | 14.4.329.3-1.rhel8      |
| 863 | HPE Emulex Fibre Channel Smart SAN Enablement Kit for Host Bus Adapters for Microsoft Windows Server 2019 (x86_64) | cp054346.exe                                                   | HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter   | 1.0.0.1 (b)     | 1.0.0.1                 |
| 864 | HPE Emulex Fibre Channel Smart SAN Enablement Kit for Host Bus Adapters for Microsoft Windows Server 2019 (x86_64) | cp054346.exe                                                   | HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter | 1.0.0.1 (b)     | 1.0.0.1                 |
| 865 | HPE Emulex Fibre Channel Smart SAN Enablement Kit for Host Bus Adapters for Microsoft Windows Server 2019 (x86_64) | cp054346.exe                                                   | HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter      | 1.0.0.1 (b)     | 1.0.0.1                 |
| 866 | HPE Emulex Fibre Channel Smart SAN Enablement Kit for Host Bus Adapters for Microsoft Windows Server 2019 (x86_64) | cp054346.exe                                                   | HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter      | 1.0.0.1 (b)     | 1.0.0.1                 |
| 867 | HPE Emulex Fibre Channel Smart SAN Enablement Kit for Host Bus Adapters for Microsoft Windows Server 2022 (x86_64) | cp054345.exe                                                   | HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter   | 1.0.0.1 (b)     | 1.0.0.1                 |
| 868 | HPE Emulex Fibre Channel Smart SAN Enablement Kit for Host Bus Adapters for Microsoft Windows Server 2022          | cp054345.exe                                                   | HPE SN1700E 64Gb Single Port Fibre Channel Host Bus         | 1.0.0.1 (b)     | 1.0.0.1                 |

|     |                                                                                                                    |                                                         |                                                             |               |                                |
|-----|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------|---------------|--------------------------------|
|     | (x86_64)                                                                                                           |                                                         | Adapter                                                     |               |                                |
| 869 | HPE Emulex Fibre Channel Smart SAN Enablement Kit for Host Bus Adapters for Microsoft Windows Server 2022 (x86_64) | cp054345.exe                                            | HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter      | 1.0.0.1 (b)   | 1.0.0.1                        |
| 870 | HPE Emulex Fibre Channel Smart SAN Enablement Kit for Host Bus Adapters for Microsoft Windows Server 2022 (x86_64) | cp054345.exe                                            | HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter      | 1.0.0.1 (b)   | 1.0.0.1                        |
| 871 | HPE Emulex Smart SAN Enablement Kit for Linux                                                                      | hpe-emulex-smartsan-enablement-kit-1.0.0.0-4.x86_64.rpm | HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter   | 1.0.0.0-4 (c) | 1.0.0.0-4                      |
| 872 | HPE Emulex Smart SAN Enablement Kit for Linux                                                                      | hpe-emulex-smartsan-enablement-kit-1.0.0.0-4.x86_64.rpm | HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter | 1.0.0.0-4 (c) | 1.0.0.0-4                      |
| 873 | HPE Emulex Smart SAN Enablement Kit for Linux                                                                      | hpe-emulex-smartsan-enablement-kit-1.0.0.0-4.x86_64.rpm | HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter      | 1.0.0.0-4 (c) | 1.0.0.0-4                      |
| 874 | HPE Emulex Smart SAN Enablement Kit for Linux                                                                      | hpe-emulex-smartsan-enablement-kit-1.0.0.0-4.x86_64.rpm | HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter      | 1.0.0.0-4 (c) | 1.0.0.0-4                      |
| 875 | HPE QLogic Fibre Channel Enablement Kit for Host Bus Adapter for Linux                                             | HPE-CNA-FC-hpeqlgc-Enablement-Kit-6.0.0.1-4.noarch.rpm  | HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter      | 6.0.0.1-4     | 6.0.0.1-4                      |
| 876 | HPE QLogic Fibre Channel Enablement Kit for Host Bus Adapter for Linux                                             | HPE-CNA-FC-hpeqlgc-Enablement-Kit-6.0.0.1-4.noarch.rpm  | HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter      | 6.0.0.1-4     | 6.0.0.1-4                      |
| 877 | HPE QLogic Fibre Channel driver component for VMware vSphere 7.0                                                   | cp059832.zip                                            | HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter      | 2024.09.01    | 5.3.83.1-10EM.703.0.0.18644231 |
| 878 | HPE QLogic Fibre Channel driver component for VMware vSphere 7.0                                                   | cp059832.zip                                            | HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter      | 2024.09.01    | 5.3.83.1-10EM.703.0.0.18644231 |
| 879 | HPE QLogic Fibre Channel driver component for VMware vSphere 8.0                                                   | cp062112.zip                                            | HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter      | 2024.09.01    | 5.4.82.1-10EM.800.1.0.20613240 |
| 880 | HPE QLogic Fibre Channel driver component for VMware vSphere 8.0                                                   | cp062112.zip                                            | HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter      | 2024.09.01    | 5.4.82.1-10EM.800.1.0.20613240 |
| 881 | HPE QLogic Fibre Channel driver component for VMware vSphere 8.0                                                   | cp061889.zip                                            | HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter      | 2024.09.01    | 5.4.83.1-10EM.803.0.0.23710970 |
| 882 | HPE QLogic Fibre Channel driver component for VMware vSphere 8.0                                                   | cp061889.zip                                            | HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter      | 2024.09.01    | 5.4.83.1-10EM.803.0.0.23710970 |
| 883 | HPE QLogic Smart SAN Enablement Kit for Fibre Channel Host Bus Adapter for Microsoft Windows Server 2019 (x86_64)  | cp054363.exe                                            | HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter      | 1.0.0.1 (b)   | 1.0.0.1                        |
| 884 | HPE QLogic Smart SAN Enablement Kit for Fibre Channel Host Bus Adapter for Microsoft Windows Server 2019 (x86_64)  | cp054363.exe                                            | HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter      | 1.0.0.1 (b)   | 1.0.0.1                        |
| 885 | HPE QLogic Smart SAN Enablement Kit for Fibre Channel Host Bus Adapter for Microsoft Windows Server 2022 (x86_64)  | cp054362.exe                                            | HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter      | 1.0.0.1 (b)   | 1.0.0.1                        |
| 886 | HPE QLogic Smart SAN Enablement Kit for Fibre Channel Host Bus Adapter for Microsoft Windows Server 2022 (x86_64)  | cp054362.exe                                            | HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter      | 1.0.0.1 (b)   | 1.0.0.1                        |
| 887 | HPE QLogic Smart SAN Enablement kit                                                                                | hpe-qlogic-smartsan-                                    | HPE SN1610Q 32Gb                                            | 3.3-3 (c)     | 3.3-3                          |

|     |                                                                          |                                                     |                                                             |            |                                   |
|-----|--------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------|------------|-----------------------------------|
|     | for Linux                                                                | enablement-kit-3.3-3.x86_64.rpm                     | 1-port Fibre Channel Host Bus Adapter                       |            |                                   |
| 888 | HPE QLogic Smart SAN Enablement kit for Linux                            | hpe-qlogic-smartsan-enablement-kit-3.3-3.x86_64.rpm | HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter      | 3.3-3 (c)  | 3.3-3                             |
| 889 | HPE Storage Emulex Fibre Channel driver component for VMware vSphere 7.0 | cp059670.zip                                        | HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter   | 2024.09.01 | 14.2.673.36-10EM.700.1.0.15843807 |
| 890 | HPE Storage Emulex Fibre Channel driver component for VMware vSphere 7.0 | cp059670.zip                                        | HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter | 2024.09.01 | 14.2.673.36-10EM.700.1.0.15843807 |
| 891 | HPE Storage Emulex Fibre Channel driver component for VMware vSphere 7.0 | cp059670.zip                                        | HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter      | 2024.09.01 | 14.2.673.36-10EM.700.1.0.15843807 |
| 892 | HPE Storage Emulex Fibre Channel driver component for VMware vSphere 7.0 | cp059670.zip                                        | HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter      | 2024.09.01 | 14.2.673.36-10EM.700.1.0.15843807 |

### 6.2.23 Software - System Management

| No. | Description                                                                                      | Package filename                                     | Device             | Package Version        | Firmware/Driver version |
|-----|--------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------|------------------------|-------------------------|
| 893 | Agentless Management Service (iLO5, iLO 6) for Red Hat Enterprise Linux 8 Server                 | amsd-3.6.0-1867.7.rhel8.x86_64.rpm                   | -                  | 3.6.0                  | 3.6.0-1867.7.rhel8      |
| 894 | HPE Agentless Management Bundle Smart Component on ESXi for Gen11 Servers                        | cp062858.zip                                         | -                  | 2024.09.01             | 701.11.7.0.2-1          |
| 895 | HPE Gen11 Agentless Management Service for Microsoft Windows x64                                 | cp062286.exe                                         | -                  | 3.50.0.0               | 3.50.0.0                |
| 896 | HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit (for Gen10 and Gen11 Controllers)    | storcli-007.2613.0000.0000-1.noarch.rpm              | HPE_MR416i-o_Gen11 | 007.2613.0000.0000 (B) | 007.2613.0000.0000-1    |
| 897 | HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit (for Gen10 and Gen11 Controllers)    | storcli-007.2613.0000.0000-1.noarch.rpm              | HPE_MR416i-p_Gen11 | 007.2613.0000.0000 (B) | 007.2613.0000.0000-1    |
| 898 | HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit (for Gen10 and Gen11 Controllers)    | storcli-007.2613.0000.0000-1.noarch.rpm              | HPE_MR216i-o_Gen11 | 007.2613.0000.0000 (B) | 007.2613.0000.0000-1    |
| 899 | HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit (for Gen10 and Gen11 Controllers)    | storcli-007.2613.0000.0000-1.noarch.rpm              | HPE_MR408i-o_Gen11 | 007.2613.0000.0000 (B) | 007.2613.0000.0000-1    |
| 900 | HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit (for Gen10 and Gen11 Controllers)    | storcli-007.2613.0000.0000-1.noarch.rpm              | HPE_MR216i-p_Gen11 | 007.2613.0000.0000 (B) | 007.2613.0000.0000-1    |
| 901 | HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers) | cp062849.exe                                         | HPE_MR416i-o_Gen11 | 7.2613.0.0 (C)         | 7.2613.0.0              |
| 902 | HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers) | cp062849.exe                                         | HPE_MR416i-p_Gen11 | 7.2613.0.0 (C)         | 7.2613.0.0              |
| 903 | HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers) | cp062849.exe                                         | HPE_MR216i-o_Gen11 | 7.2613.0.0 (C)         | 7.2613.0.0              |
| 904 | HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers) | cp062849.exe                                         | HPE_MR408i-o_Gen11 | 7.2613.0.0 (C)         | 7.2613.0.0              |
| 905 | HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers) | cp062849.exe                                         | HPE_MR216i-p_Gen11 | 7.2613.0.0 (C)         | 7.2613.0.0              |
| 906 | HPE MegaRAID Storage Administrator for Linux 64-bit (HPE MRSA for Gen10P and Gen11 Controllers)  | MRStorageAdministrator-008.006.018.000-00.x86_64.rpm | HPE_MR416i-o_Gen11 | 8.6.18.0 (B)           | 008.006.018.000-00      |

|     |                                                                                                       |                                                   |                                             |              |                    |
|-----|-------------------------------------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------|--------------|--------------------|
| 907 | HPE MegaRAID Storage Administrator for Linux 64-bit (HPE MRSA for Gen10P and Gen11 Controllers)       | MRStorageAdministra-008.006.018.000-00.x86_64.rpm | HPE_MR416i-p_Gen11                          | 8.6.18.0 (B) | 008.006.018.000-00 |
| 908 | HPE MegaRAID Storage Administrator for Linux 64-bit (HPE MRSA for Gen10P and Gen11 Controllers)       | MRStorageAdministra-008.006.018.000-00.x86_64.rpm | HPE_MR216i-o_Gen11                          | 8.6.18.0 (B) | 008.006.018.000-00 |
| 909 | HPE MegaRAID Storage Administrator for Linux 64-bit (HPE MRSA for Gen10P and Gen11 Controllers)       | MRStorageAdministra-008.006.018.000-00.x86_64.rpm | HPE_MR408i-o_Gen11                          | 8.6.18.0 (B) | 008.006.018.000-00 |
| 910 | HPE MegaRAID Storage Administrator for Linux 64-bit (HPE MRSA for Gen10P and Gen11 Controllers)       | MRStorageAdministra-008.006.018.000-00.x86_64.rpm | HPE_MR216i-p_Gen11                          | 8.6.18.0 (B) | 008.006.018.000-00 |
| 911 | HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for Gen10 Plus and Gen11 Controllers) | cp062848.exe                                      | HPE_MR416i-o_Gen11                          | 8.6.18.0 (D) | 8.6.18.0           |
| 912 | HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for Gen10 Plus and Gen11 Controllers) | cp062848.exe                                      | HPE_MR416i-p_Gen11                          | 8.6.18.0 (D) | 8.6.18.0           |
| 913 | HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for Gen10 Plus and Gen11 Controllers) | cp062848.exe                                      | HPE_MR216i-o_Gen11                          | 8.6.18.0 (D) | 8.6.18.0           |
| 914 | HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for Gen10 Plus and Gen11 Controllers) | cp062848.exe                                      | HPE_MR408i-o_Gen11                          | 8.6.18.0 (D) | 8.6.18.0           |
| 915 | HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for Gen10 Plus and Gen11 Controllers) | cp062848.exe                                      | HPE_MR216i-p_Gen11                          | 8.6.18.0 (D) | 8.6.18.0           |
| 916 | Smart Storage Administrator (SSA) CLI for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers         | ssacli-6.40-6.0.x86_64.rpm                        | HPE Smart Array E208e-p SR Gen10 Controller | 6.40.6.0     | 6.40-6.0           |
| 917 | Smart Storage Administrator (SSA) CLI for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers         | ssacli-6.40-6.0.x86_64.rpm                        | Smart Array S100i SR                        | 6.40.6.0     | 6.40-6.0           |
| 918 | Smart Storage Administrator (SSA) CLI for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers         | ssacli-6.40-6.0.x86_64.rpm                        | Smart Array S100i SR                        | 6.40.6.0     | 6.40-6.0           |
| 919 | Smart Storage Administrator (SSA) CLI for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers         | ssacli-6.40-6.0.x86_64.rpm                        | Smart Array S100i SR                        | 6.40.6.0     | 6.40-6.0           |
| 920 | Smart Storage Administrator (SSA) CLI for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers         | ssacli-6.40-6.0.x86_64.rpm                        | HPE SR932i-p Gen11                          | 6.40.6.0     | 6.40-6.0           |
| 921 | Smart Storage Administrator (SSA) CLI for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers       | cp059212.exe                                      | HPE Smart Array E208e-p SR Gen10 Controller | 6.40.6.0     | 6.40.6.0           |
| 922 | Smart Storage Administrator (SSA) CLI for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers       | cp059212.exe                                      | Smart Array S100i SR                        | 6.40.6.0     | 6.40.6.0           |
| 923 | Smart Storage Administrator (SSA) CLI for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers       | cp059212.exe                                      | Smart Array S100i SR                        | 6.40.6.0     | 6.40.6.0           |
| 924 | Smart Storage Administrator (SSA) CLI for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers       | cp059212.exe                                      | Smart Array S100i SR                        | 6.40.6.0     | 6.40.6.0           |
| 925 | Smart Storage Administrator (SSA) CLI for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers       | cp059212.exe                                      | HPE SR932i-p Gen11                          | 6.40.6.0     | 6.40.6.0           |
| 926 | Smart Storage Administrator (SSA) for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers             | ssa-6.40-6.0.x86_64.rpm                           | HPE Smart Array E208e-p SR Gen10 Controller | 6.40.6.0     | 6.40-6.0           |
| 927 | Smart Storage Administrator (SSA) for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers             | ssa-6.40-6.0.x86_64.rpm                           | Smart Array S100i SR                        | 6.40.6.0     | 6.40-6.0           |
| 928 | Smart Storage Administrator (SSA) for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers             | ssa-6.40-6.0.x86_64.rpm                           | Smart Array S100i SR                        | 6.40.6.0     | 6.40-6.0           |

|     |                                                                                                                      |                               |                                             |          |          |
|-----|----------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------|----------|
| 929 | Smart Storage Administrator (SSA) for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers                            | ssa-6.40-6.0.x86_64.rpm       | Smart Array S100i SR                        | 6.40.6.0 | 6.40-6.0 |
| 930 | Smart Storage Administrator (SSA) for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers                            | ssa-6.40-6.0.x86_64.rpm       | HPE SR932i-p Gen11                          | 6.40.6.0 | 6.40-6.0 |
| 931 | Smart Storage Administrator (SSA) for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers                          | cp059211.exe                  | HPE Smart Array E208e-p SR Gen10 Controller | 6.40.6.0 | 6.40.6.0 |
| 932 | Smart Storage Administrator (SSA) for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers                          | cp059211.exe                  | Smart Array S100i SR                        | 6.40.6.0 | 6.40.6.0 |
| 933 | Smart Storage Administrator (SSA) for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers                          | cp059211.exe                  | Smart Array S100i SR                        | 6.40.6.0 | 6.40.6.0 |
| 934 | Smart Storage Administrator (SSA) for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers                          | cp059211.exe                  | Smart Array S100i SR                        | 6.40.6.0 | 6.40.6.0 |
| 935 | Smart Storage Administrator (SSA) for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers                          | cp059211.exe                  | HPE SR932i-p Gen11                          | 6.40.6.0 | 6.40.6.0 |
| 936 | Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers   | ssaduccli-6.40-6.0.x86_64.rpm | HPE Smart Array E208e-p SR Gen10 Controller | 6.40.6.0 | 6.40-6.0 |
| 937 | Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers   | ssaduccli-6.40-6.0.x86_64.rpm | Smart Array S100i SR                        | 6.40.6.0 | 6.40-6.0 |
| 938 | Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers   | ssaduccli-6.40-6.0.x86_64.rpm | Smart Array S100i SR                        | 6.40.6.0 | 6.40-6.0 |
| 939 | Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers   | ssaduccli-6.40-6.0.x86_64.rpm | Smart Array S100i SR                        | 6.40.6.0 | 6.40-6.0 |
| 940 | Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers   | ssaduccli-6.40-6.0.x86_64.rpm | HPE SR932i-p Gen11                          | 6.40.6.0 | 6.40-6.0 |
| 941 | Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers | cp059213.exe                  | HPE Smart Array E208e-p SR Gen10 Controller | 6.40.6.0 | 6.40.6.0 |
| 942 | Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers | cp059213.exe                  | Smart Array S100i SR                        | 6.40.6.0 | 6.40.6.0 |
| 943 | Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers | cp059213.exe                  | Smart Array S100i SR                        | 6.40.6.0 | 6.40.6.0 |
| 944 | Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers | cp059213.exe                  | Smart Array S100i SR                        | 6.40.6.0 | 6.40.6.0 |
| 945 | Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers | cp059213.exe                  | HPE SR932i-p Gen11                          | 6.40.6.0 | 6.40.6.0 |

## 6.3 パッケージの変更内容

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### Online ROM Flash Component for Windows x64 - System ROM U54

Version: 2.16\_03-01-2024 (Recommended)

#### **Problems Fixed:**

- This revision of the System ROM includes the revision of the TPM2 Measure boot library update which provides mitigation for security vulnerabilities documented as CVE-2022-36763 and CVE-2022-36764.
- This revision of the System ROM includes the revision of the MiniZip Library update which provides mitigation for security vulnerabilities documented as CVE-2023-45853.
- This revision of the System ROM includes the revision of the EDK2 NetworkPkg IP stack implementation update which provides mitigation for security vulnerabilities documented as CVE-2023-45229, CVE-2023-45230, CVE-2023-45231, CVE-2023-45232, CVE-2023-45233, CVE-2023-45234, CVE-2023-45235, CVE-2023-45236, CVE-2023-45237.
- Addressed an issue where PCI slot information, Slot Physical width and Slot Pitch are not correct in the SMBIOS Type 9.
- Addressed an issue where the NUMA nodes are not assigned properly when Sub-NUMA Clustering is set 2 or 4.
- Addressed an issue where the operating system cannot detect the iSCSI hard drive through IPv6 installation.
- Addressed an issue where the version information of the System Programmable Logic Device may be displayed incorrectly in RBSU and iLO GUI.
- Addressed an issue where a Red Screen of Death (RSOD) may be seen during a system boot.
- Addressed an issue where the "Enabled Cores per Processor" in RBSU cannot be set greater than 56.
- Fixed an issue where Intel(R) Software Guard Extensions (SGX) Attestation may fail. Software Guard Extensions (SGX) is disabled by default.
- Fixed an issue where system would reboot when hot-adding NVMe drives in Linux with Intel(R) VMD Support enabled.
- Fixed an issue where the OCP retimer slot number was not correctly reported in SMBIOS type 216.
- Addressed an issue where system might hang with SRIS of CPU PCIe port enabled.
- Addressed an issue where iLO web would not display the PCIe device installed on Slot 8 when the configuration includes a tertiary riser and Slot 8 is PCI Express x8.

#### **Enhancements:**

- Added support for NVMe over Fabrics.
- Added new System Configuration (RBSU) configuration options that control the creation of boot options for non-bootable fixed drive.
- Enhanced the warning messages of "Embedded SATA Configuration" options in RBSU.
- Enhanced the warning messages of "Intel(R) CPU VMD Support" options in RBSU.
- Added new System Configuration (RBSU) configuration options that control Intel Trust Domain Extension (TDX) functions.
- Added new System Configuration (RBSU) configuration options that control the NVMe-oF Software

Initiator.

- Added new System Configuration (RBSU) configuration options that control the PCI-E Data Link Feature Exchange.
- Enhanced the help message for System Configuration (RBSU) configuration options for Automatic Power-On.
- Updated the Processor Capability Indicator in SMBIOS type 197.
- Enhanced POST messages in situations where unsupported processors are installed.
- Added PCIe Gen2 device in SMBIOS type 9.
- Enhanced SMBIOS type 9 for PCIe retimer device information.
- Displayed the information of first device in SMBIOS type 203 when the PCI slot is bifurcated.
- Replaced "AC power" with "external power" in the help text of "Automatic power-on" option.
- Added new Microsoft secure boot keys, KEK2023, Microsoft UEFI CA 2023 and Windows UEFI CA 2023, since the original keys will expire in 2026.

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## Online ROM Flash Component for Windows x64 - System ROM U63

Version: 2.30\_08-09-2024

### **Important Notes:**

- This version of the System ROM contains updates aligned with the Intel uPLR2 guidance.
- Firmware Dependencies:
- iLO6 v1.62 is NOT compatible with the Windows and Linux Online ROM Flash Components for versions of the System ROM prior to v2.30. The Online ROM Flash Components released with System ROM v2.30 will work with iLO6 v1.62. For any systems utilizing iLO6 v1.62 or later, flashing the System ROM to versions prior to v2.30 requires utilizing Fwpkg or ROM binary instead of using the Windows or Linux Online ROM Flash Components.
- This version of the System ROM contains updates aligned with the Intel uPLR1 OOB2 guidance.
- This revision of the System ROM includes the mitigation for security vulnerabilities CVE-2023-5678, CVE-2024-0727 and CVE-2023-45229. The security vulnerabilities are documented in the CVE report site. They are not unique to Hitachi servers.
- This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.047.0.

### **Problems Fixed:**

- Addressed an issue where duplicated and incorrect task status were logged iLO Event Log.
- Addressed an issue where multiple KEK instances appeared after the enrollment of KEK certificate from Redfish API.
- Addressed an issue where UEFI secure boot dbr signatures were not deleted after deleting all keys via Redfish API.
- Addressed an issue where Negotiated Link Width in RBSU showed incorrect information after configuring bifurcation.
- Addressed an issue where system may encounter RSOD after enrollment of an improper certificate.
- Addressed an issue where the Logical Drive name was cleared in RBSU after leaving the configuration

page of MR controllers.

- Addressed an issue where Redfish BIOS actions, ResetBios and ChangePassword may not work.
- Addressed a secure boot database synchronizing issue via Redfish API.
- Addressed an issue that Battery Failure IML message log may be incorrectly logged for Smart Array Controller with Smart Storage Battery.
- Addressed an issue where NS204i may not be identified as an NVMe device.
- Addressed an issue when setting "Workload Profile" to 'Custom' and changing "Processor Monitor/Mwait Support" to 'Disabled'. "Processor Monitor/Mwait Support" knob is not seen in the BIOS->Service Options.
- Addressed an issue where the driver Health Message was shown twice in POST when drive was removed and ran cold boot.
- Addressed an issue where a NVMe drive would not be unmounted when it exceeds the DPC error threshold with ESXi 8.0U2 or newer versions.
- Addressed an issue where system would not be configured as 4 sub-NUMA nodes per socket (SNC4) when Virtual NUMA is enabled and SNC2 is enabled.
- Addressed an issue where updating NVMe-oF initiator name would not take effect.
- Addressed an issue where Redfish BIOS actions, ResetBIOS and ChangePassword were not working.
- Addressed an issue where system may hang while enrolling secure boot key dbr certificate via Redfish API.
- Addressed an issue where system failed to boot with selected NVMe HDD by setting One-Time Boot Option in ILO Web.
- Addressed an issue where the boot order was cleared unexpectedly after configuring System Configuration (RBSU) options, navigating to Boot Options > UEFI Boot Settings > UEFI Boot Order and then pressing F12 to Save and Exit.
- Removed value "Not Specified" in System Configuration (RBSU) option "Server Security/Trusted Platform Module Options/Current TPM 2.0 Active PCRs" and set the default value as "SHA1 and SHA256".
- Addressed an issue where Redfish resource was not updated after deleting secure boot keys via System Configuration (RBSU).
- Addressed an issue where the system failed to enroll certificate to PK and KEK via Redfish.
- Addressed an issue where the OS could not detect the iSCSI drive through IPv6 installation when iSCSI IpAddressType is set to auto.
- Addressed an issue where the boot order of NVMe drives cannot be changed.
- Addressed an issue where system may encounter a RSOD while updating SAS drive FW.

#### **Enhancements:**

- Updated some Japanese translation.
- Added production HCI marker key for OEM activation for Windows Azure.
- Added value "C6 without C1E" in System Configuration (RBSU) option "Power Management/Advanced Power Options menu/Minimum Processor Idle Power Core C-State". When selected, the Minimum Processor Idle Power Core C-State is C6 with C1E disabled. This setting has the following Redfish property: /redfish/v1/systems/1/bios/MinProcIdlePower



- Added the System Configuration (RBSU) option "Power and Performance Options/Advanced Performance Tuning Options/Intel(R) AVX License Pre-Grant Override". When enabled, the pre-grant license level will be set based on the value of AVX ICCP Pre-Grant Level option. This setting has the following Redfish property: `/redfish/v1/systems/1/bios/settings/AvxLicensePreGrantOverride`
- Added the System Configuration (RBSU) option "Power and Performance Options/Advanced Performance Tuning Options/Intel(R) AVX ICCP Pre-Grant Level" to pre-grants an AVX level to the core. This setting has the following Redfish property:  
`/redfish/v1/systems/1/bios/settings/AvxIccpPreGrantLevel`
- Added the System Configuration (RBSU) option "PCIe Device Configuration/Advanced PCIe Configuration/ PCI-E ASPM Support (Global)" to control ASPM support in all PCIe root port. This setting has the following Redfish property:  
`/redfish/v1/systems/1/bios/settings//redfish/v1/systems/1/bios/settings/PcieGlobalAspm`

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## Online ROM Flash Component for Windows x64 - System ROM U65

Version: 1.52\_07-11-2024

### **Important Notes:**

- This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.02.04.035.0.
- This version of the System ROM contains updates aligned with the Intel MR2 Best Known Configuration for Intel Xeon E-2400 series processors.

### **Problems Fixed:**

- Addressed an issue where duplicated and incorrect task status were logged iLO Event Log.
- Addressed an issue where multiple KEK instances appeared after enrollment of KEK certificate from Redfish API.
- Addressed an issue where dbr were not deleted after deleting all keys via Redfish API.
- Addressed an issue where Negotiated Link Width in RBSU showed incorrect information after configuring bifurcation.
- Addressed an issue where system may encounter RSOD after enrollment of an improper certificate.
- Addressed an issue where the Logical Drive name was cleared in RBSU after leaving configuration page of MR controller.
- Addressed an issue that Battery Failure IML message log may be incorrectly logged for MR Controller with Smart Storage Battery.
- Addressed an issue where Redfish BIOS actions, ResetBIOS and ChangePassword may not work.
- Addressed a secure boot database synchronizing issue via Redfish API.
- Addressed an issue where system may encounter a RSOD while updating SAS drive FW.
- Addressed an issue where updating NVMe-oF initiator name would not take effect.
- Addressed an issue where system may hang while enrolling secure boot key dbr certificate via Redfish API.
- Addressed an issue where system failed to boot with selected NVMe HDD by setting One-Time Boot Option in ILO Web.

- Addressed an issue where the boot order was cleared unexpectedly after configuring System Configuration (RBSU) options, navigating to Boot Options > UEFI Boot Settings > UEFI Boot Order, and then pressing F12 to Save and Exit.
- Removed the value of "Not Specified" in System Configuration (RBSU) option "Server Security/Trusted Platform Module Options/Current TPM 2.0 Active PCRs" and set the default value as "SHA1 and SHA256".

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## ROM Flash Firmware Package - System ROM U54

Version: 2.16\_03-01-2024 (Recommended)

### **Problems Fixed:**

- This revision of the System ROM includes the revision of the TPM2 Measure boot library update which provides mitigation for security vulnerabilities documented as CVE-2022-36763 and CVE-2022-36764.
- This revision of the System ROM includes the revision of the MiniZip Library update which provides mitigation for security vulnerabilities documented as CVE-2023-45853.
- This revision of the System ROM includes the revision of the EDK2 NetworkPkg IP stack implementation update which provides mitigation for security vulnerabilities documented as CVE-2023-45229, CVE-2023-45230, CVE-2023-45231, CVE-2023-45232, CVE-2023-45233, CVE-2023-45234, CVE-2023-45235, CVE-2023-45236, CVE-2023-45237.
- Addressed an issue where PCI slot information, Slot Physical width and Slot Pitch are not correct in the SMBIOS Type 9.
- Addressed an issue where the NUMA nodes are not assigned properly when Sub-NUMA Clustering is set 2 or 4.
- Addressed an issue where the operating system cannot detect the iSCSI hard drive through IPv6 installation.
- Addressed an issue where the version information of the System Programmable Logic Device may be displayed incorrectly in RBSU and iLO GUI.
- Addressed an issue where a Red Screen of Death (RSOD) may be seen during a system boot.
- Addressed an issue where the "Enabled Cores per Processor" in RBSU cannot be set greater than 56.
- Fixed an issue where Intel(R) Software Guard Extensions (SGX) Attestation may fail. Software Guard Extensions (SGX) is disabled by default.
- Fixed an issue where system would reboot when hot-adding NVMe drives in Linux with Intel(R) VMD Support enabled.
- Fixed an issue where the OCP retimer slot number was not correctly reported in SMBIOS type 216.
- Addressed an issue where system might hang with SRIS of CPU PCIe port enabled.
- Addressed an issue where iLO web would not display the PCIe device installed on Slot 8 when the configuration includes a tertiary riser and Slot 8 is PCI Express x8.

### **Enhancements:**

- Added support for NVMe over Fabrics.
- Added new System Configuration (RBSU) configuration options that control the creation of boot options for non-bootable fixed drive.

- Enhanced the warning messages of "Embedded SATA Configuration" options in RBSU.
- Enhanced the warning messages of "Intel(R) CPU VMD Support" options in RBSU.
- Added new System Configuration (RBSU) configuration options that control Intel Trust Domain Extension (TDX) functions.
- Added new System Configuration (RBSU) configuration options that control the NVMe-oF Software Initiator.
- Added new System Configuration (RBSU) configuration options that control the PCI-E Data Link Feature Exchange.
- Enhanced the help message for System Configuration (RBSU) configuration options for Automatic Power-On.
- Updated the Processor Capability Indicator in SMBIOS type 197.
- Enhanced POST messages in situations where unsupported processors are installed.
- Added PCIe Gen2 device in SMBIOS type 9.
- Enhanced SMBIOS type 9 for PCIe retimer device information.
- Displayed the information of first device in SMBIOS type 203 when the PCI slot is bifurcated.
- Replaced "AC power" with "external power" in the help text of "Automatic power-on" option.
- Added new Microsoft secure boot keys, KEK2023, Microsoft UEFI CA 2023 and Windows UEFI CA 2023, since the original keys will expire in 2026.

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## **ROM Flash Firmware Package - System ROM U63**

Version: 2.16\_03-01-2024 (Recommended)

### **Problems Fixed:**

- This revision of the System ROM includes the revision of the TPM2 Measure boot library update which provides mitigation for security vulnerabilities documented as CVE-2022-36763 and CVE-2022-36764.
- This revision of the System ROM includes the revision of the MiniZip Library update which provides mitigation for security vulnerabilities documented as CVE-2023-45853.
- This revision of the System ROM includes the revision of the EDK2 NetworkPkg IP stack implementation update which provides mitigation for security vulnerabilities documented as CVE-2023-45229, CVE-2023-45230, CVE-2023-45231, CVE-2023-45232, CVE-2023-45233, CVE-2023-45234, CVE-2023-45235, CVE-2023-45236, CVE-2023-45237.
- Addressed an issue where PCI slot information, Slot Physical width and Slot Pitch are not correct in the SMBIOS Type 9.
- Addressed an issue where the NUMA nodes are not assigned properly when Sub-NUMA Clustering is set 2 or 4.
- Addressed an issue where the operating system cannot detect the iSCSI hard drive through IPv6 installation.
- Addressed an issue where the version information of the System Programmable Logic Device may be displayed incorrectly in RBSU and iLO GUI.
- Addressed an issue where a Red Screen of Death (RSOD) may be seen during a system boot.

- Addressed an issue where the "Enabled Cores per Processor" in RBSU cannot be set greater than 56.
- Fixed an issue where Intel(R) Software Guard Extensions (SGX) Attestation may fail. Software Guard Extensions (SGX) is disabled by default.
- Fixed an issue where system would reboot when hot-adding NVMe drives in Linux with Intel(R) VMD Support enabled.
- Fixed an issue where the OCP retimer slot number was not correctly reported in SMBIOS type 216.
- Addressed an issue where system might hang with SRIS of CPU PCIe port enabled.
- Addressed an issue where iLO web would not display the PCIe device installed on Slot 8 when the configuration includes a tertiary riser and Slot 8 is PCI Express x8.

#### **Enhancements:**

- Added support for NVMe over Fabrics.
- Added new System Configuration (RBSU) configuration options that control the creation of boot options for non-bootable fixed drive.
- Enhanced the warning messages of "Embedded SATA Configuration" options in RBSU.
- Enhanced the warning messages of "Intel(R) CPU VMD Support" options in RBSU.
- Added new System Configuration (RBSU) configuration options that control Intel Trust Domain Extension (TDX) functions.
- Added new System Configuration (RBSU) configuration options that control the NVMe-oF Software Initiator.
- Added new System Configuration (RBSU) configuration options that control the PCI-E Data Link Feature Exchange.
- Enhanced the help message for System Configuration (RBSU) configuration options for Automatic Power-On.
- Updated the Processor Capability Indicator in SMBIOS type 197.
- Enhanced POST messages in situations where unsupported processors are installed.
- Added PCIe Gen2 device in SMBIOS type 9.
- Enhanced SMBIOS type 9 for PCIe retimer device information.
- Displayed the information of first device in SMBIOS type 203 when the PCI slot is bifurcated.
- Replaced "AC power" with "external power" in the help text of "Automatic power-on" option.
- Added new Microsoft secure boot keys, KEK2023, Microsoft UEFI CA 2023 and Windows UEFI CA 2023, since the original keys will expire in 2026.

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#### **Online ROM Flash Component for Windows x64 - System ROM U59**

Version: 2.16\_03-01-2024 (Recommended)

#### **Problems Fixed:**

- This revision of the System ROM includes the revision of the TPM2 Measure boot library update which provides mitigation for security vulnerabilities documented as CVE-2022-36763 and CVE-2022-36764.
- This revision of the System ROM includes the revision of the MiniZip Library update which provides mitigation for security vulnerabilities documented as CVE-2023-45853.

- This revision of the System ROM includes the revision of the EDK2 NetworkPkg IP stack implementation update which provides mitigation for security vulnerabilities documented as CVE-2023-45229, CVE-2023-45230, CVE-2023-45231, CVE-2023-45232, CVE-2023-45233, CVE-2023-45234, CVE-2023-45235, CVE-2023-45236, CVE-2023-45237.
- Addressed an issue where PCI slot information, Slot Physical width and Slot Pitch are not correct in the SMBIOS Type 9.
- Addressed an issue where the NUMA nodes are not assigned properly when Sub-NUMA Clustering is set 2 or 4.
- Addressed an issue where the operating system cannot detect the iSCSI hard drive through IPv6 installation.
- Addressed an issue where the version information of the System Programmable Logic Device may be displayed incorrectly in RBSU and iLO GUI.
- Addressed an issue where a Red Screen of Death (RSOD) may be seen during a system boot.
- Addressed an issue where the "Enabled Cores per Processor" in RBSU cannot be set greater than 56.
- Fixed an issue where Intel(R) Software Guard Extensions (SGX) Attestation may fail. Software Guard Extensions (SGX) is disabled by default.
- Fixed an issue where system would reboot when hot-adding NVMe drives in Linux with Intel(R) VMD Support enabled.
- Fixed an issue where the OCP retimer slot number was not correctly reported in SMBIOS type 216.
- Addressed an issue where system might hang with SRIS of CPU PCIe port enabled.
- Addressed an issue where iLO web would not display the PCIe device installed on Slot 8 when the configuration includes a tertiary riser and Slot 8 is PCI Express x8.

#### **Enhancements:**

- Added support for NVMe over Fabrics.
- Added new System Configuration (RBSU) configuration options that control the creation of boot options for non-bootable fixed drive.
- Enhanced the warning messages of "Embedded SATA Configuration" options in RBSU.
- Enhanced the warning messages of "Intel(R) CPU VMD Support" options in RBSU.
- Added new System Configuration (RBSU) configuration options that control Intel Trust Domain Extension (TDX) functions.
- Added new System Configuration (RBSU) configuration options that control the NVMe-oF Software Initiator.
- Added new System Configuration (RBSU) configuration options that control the PCI-E Data Link Feature Exchange.
- Enhanced the help message for System Configuration (RBSU) configuration options for Automatic Power-On.
- Updated the Processor Capability Indicator in SMBIOS type 197.
- Enhanced POST messages in situations where unsupported processors are installed.
- Added PCIe Gen2 device in SMBIOS type 9.
- Enhanced SMBIOS type 9 for PCIe retimer device information.

- Displayed the information of first device in SMBIOS type 203 when the PCI slot is bifurcated.
- Replaced "AC power" with "external power" in the help text of "Automatic power-on" option.
- Added new Microsoft secure boot keys, KEK2023, Microsoft UEFI CA 2023 and Windows UEFI CA 2023, since the original keys will expire in 2026.

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## ROM Flash Firmware Package - System ROM U59

Version: 2.16\_03-01-2024 (Recommended)

### **Problems Fixed:**

- This revision of the System ROM includes the revision of the TPM2 Measure boot library update which provides mitigation for security vulnerabilities documented as CVE-2022-36763 and CVE-2022-36764.
- This revision of the System ROM includes the revision of the MiniZip Library update which provides mitigation for security vulnerabilities documented as CVE-2023-45853.
- This revision of the System ROM includes the revision of the EDK2 NetworkPkg IP stack implementation update which provides mitigation for security vulnerabilities documented as CVE-2023-45229, CVE-2023-45230, CVE-2023-45231, CVE-2023-45232, CVE-2023-45233, CVE-2023-45234, CVE-2023-45235, CVE-2023-45236, CVE-2023-45237.
- Addressed an issue where PCI slot information, Slot Physical width and Slot Pitch are not correct in the SMBIOS Type 9.
- Addressed an issue where the NUMA nodes are not assigned properly when Sub-NUMA Clustering is set 2 or 4.
- Addressed an issue where the operating system cannot detect the iSCSI hard drive through IPv6 installation.
- Addressed an issue where the version information of the System Programmable Logic Device may be displayed incorrectly in RBSU and iLO GUI.
- Addressed an issue where a Red Screen of Death (RSOD) may be seen during a system boot.
- Addressed an issue where the "Enabled Cores per Processor" in RBSU cannot be set greater than 56.
- Fixed an issue where Intel(R) Software Guard Extensions (SGX) Attestation may fail. Software Guard Extensions (SGX) is disabled by default.
- Fixed an issue where system would reboot when hot-adding NVMe drives in Linux with Intel(R) VMD Support enabled.
- Fixed an issue where the OCP retimer slot number was not correctly reported in SMBIOS type 216.
- Addressed an issue where system might hang with SRIS of CPU PCIe port enabled.
- Addressed an issue where iLO web would not display the PCIe device installed on Slot 8 when the configuration includes a tertiary riser and Slot 8 is PCI Express x8.

### **Enhancements:**

- Added support for NVMe over Fabrics.
- Added new System Configuration (RBSU) configuration options that control the creation of boot options for non-bootable fixed drive.
- Enhanced the warning messages of "Embedded SATA Configuration" options in RBSU.

- Enhanced the warning messages of "Intel(R) CPU VMD Support" options in RBSU.
- Added new System Configuration (RBSU) configuration options that control Intel Trust Domain Extension (TDX) functions.
- Added new System Configuration (RBSU) configuration options that control the NVMe-oF Software Initiator.
- Added new System Configuration (RBSU) configuration options that control the PCI-E Data Link Feature Exchange.
- Enhanced the help message for System Configuration (RBSU) configuration options for Automatic Power-On.
- Updated the Processor Capability Indicator in SMBIOS type 197.
- Enhanced POST messages in situations where unsupported processors are installed.
- Added PCIe Gen2 device in SMBIOS type 9.
- Enhanced SMBIOS type 9 for PCIe retimer device information.
- Displayed the information of first device in SMBIOS type 203 when the PCI slot is bifurcated.
- Replaced "AC power" with "external power" in the help text of "Automatic power-on" option.
- Added new Microsoft secure boot keys, KEK2023, Microsoft UEFI CA 2023 and Windows UEFI CA 2023, since the original keys will expire in 2026.

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## Online ROM Flash Component for Windows x64 - iLO 6

Version: 1.63

### **Firmware Dependencies:**

- After updating to iLO6 1.62 or later, updating BIOS/SPS/iLO FW by Online ROM Flash Components (exe/rpm) released before iLO6 1.62 may fail. Please refer to advisory ADV-2024-0078 for more details.

### **Problems Fixed:**

- Fixed an issue where fetching the email ID for AD login users fails in a cross-domain setup, affecting the ability to send TFA tokens.
- Fixed an issue that involves a fallback mechanism to retrieve the email address from the parent domain if it cannot be fetched from the cross-domain.
- Fixed an issue where the drives in the Embedded SATA controller were displayed in the label of Un-configured Drives instead of Drives.
- Fixed an issue where HPE iLO reports a false error Duplicate IP address after resetting HPE iLO.
- Fixed an issue where the HPE iLO Shared Network Port is unable to communicate with external routable devices.
- Fixed an issue where HPE iLO may be unable to communicate with external routable devices after a power outage.
- Fixed the false logging of IELs for virtual devices like MCTP Bridge.
- Fixed an issue where DeviceDiscovery process failed to execute.
- Fixed the offline firmware update failure through SPH/SPR and missing the inventory of hard drives.
- Fixed a potential random server restart, or Uncorrectable Machine Check Exception (UMCE), when an

iLO reset is triggered.

- Fixed an issue where in a maximum configuration MR controller, the downstream UBM, and drives do not get listed in the device inventory or storage in HPE iLO.
- Fixed an issue where Edgeline servers could display an impossibly high chassis power reading, which was determined to be invalid.
- Fixed an issue where if a shared network port is not configured, SharedNetworkPortOptions property under URI /redfish/v1/Managers/1/EthernetInterfaces/2 was hidden. This will now be present and will display SharedNetworkPortOptions.NIC as Disabled.
- Fixed an issue with the sensor index suffix in SNMP sensor name OIDs.
- Fixed an issue where, while updating the One Time Boot option to PXE boot device, the UEFI optimized boot mode was getting set to a disabled state.
- Fixed an issue where LDAP mode used to get disabled due to version and size mismatch.
- Fixed an issue where HTTP calls to Rest server (through a web server) to create installset, initiate installset, and read installset was unstable leading to failure in BundleUpdate.
- Fixed an issue where data from Redfish when appended with available data, use to generate unexpected data.
- Fixed an issue where ME was sending the wrong peci command code in response.
- Fixed an issue where SMBIOS data file present in NAND is removed and recreated every time server reboots.
- Fixed an issue where physical drive status was reported incorrectly in SNMP.
- Fixed an issue of invalid values for SNMP OIDs during SNMPWALK.

### **Enhancements:**

- Improved error messaging for HPE iLO Two Factor Authentication.
- Enhancement to the secure boot feature to support higher certificate count and length.
- Support for SPDH 1.2 specification.
- Added IML alert and Redfish Alert to report the following Intel Processor PROCHOT status:
  - Warning alert or an event when an active PROCHOT is longer than 60 seconds.
  - Repair alert or an event when there is a nonactive PROCHOT status.
- Support for Fan speed in terms of percentage from SNMP OID Get and Walk.
- Support for Active Directory Log in for group sizes larger than 300 and up to 800.
- Support for Floating Values in Redfish as per DMTF specification.
- Support for minimum15 concurrent sessions per user for each interface.
- Support for InfiniBand NDR/Ethernet 400Gb 1-port OSFP PCIe5 x16 MCX75310AAS-NEAT Adapter.
- Support for InfiniBand NDR200/Ethernet 200Gb 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Adapter.
- Fixes for specific SNMP OIDs for RDE capable storage controllers for controller, physical drive, and logical drive properties.
- Enhancements to network stack to support the USGv6 requirements.
- Introduction of a Redfish property to enable or disable the RFC 7217 support in iLO. By default, it is disabled. When enabled, this property changes the IPv6 SLAAC addresses of iLO from EUI-64 format to the RFC format.



- Support for consistent URIs (indexes) under Ethernet interfaces for systems in Gen 11 servers at all times.
- Ability to switch from DHCP6 to static IPv6 address for the same IP address.
- Added Cipher #17 for IPMI over LAN and removed Cipher #0 and Cipher #1 with security issues.
- Ability for HPE iLO 6 to monitor Closed-Loop Liquid Cooling devices after the POST call completion.

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## Online ROM Flash Firmware Package - iLO 6

Version: 1.63

### **Firmware Dependencies:**

- After updating to iLO6 1.62 or later, updating BIOS/SPS/iLO FW by Online ROM Flash Components (exe/rpm) released before iLO6 1.62 may fail. Please refer to advisory ADV-2024-0078 for more details.

### **Problems Fixed:**

- Fixed an issue where fetching the email ID for AD login users fails in a cross-domain setup, affecting the ability to send TFA tokens.
- Fixed an issue that involves a fallback mechanism to retrieve the email address from the parent domain if it cannot be fetched from the cross-domain.
- Fixed an issue where the drives in the Embedded SATA controller were displayed in the label of Un-configured Drives instead of Drives.
- Fixed an issue where HPE iLO reports a false error Duplicate IP address after resetting HPE iLO.
- Fixed an issue where the HPE iLO Shared Network Port is unable to communicate with external routable devices.
- Fixed an issue where HPE iLO may be unable to communicate with external routable devices after a power outage.
- Fixed the false logging of IELs for virtual devices like MCTP Bridge.
- Fixed an issue where DeviceDiscovery process failed to execute.
- Fixed the offline firmware update failure through SPH/SPR and missing the inventory of hard drives.
- Fixed a potential random server restart, or Uncorrectable Machine Check Exception (UMCE), when an iLO reset is triggered.
- Fixed an issue where in a maximum configuration MR controller, the downstream UBM, and drives do not get listed in the device inventory or storage in HPE iLO.
- Fixed an issue where Edgeline servers could display an impossibly high chassis power reading, which was determined to be invalid.
- Fixed an issue where if a shared network port is not configured, SharedNetworkPortOptions property under URI /redfish/v1/Managers/1/EthernetInterfaces/2 was hidden. This will now be present and will display SharedNetworkPortOptions.NIC as Disabled.
- Fixed an issue with the sensor index suffix in SNMP sensor name OIDs.
- Fixed an issue where, while updating the One Time Boot option to PXE boot device, the UEFI optimized boot mode was getting set to a disabled state.
- Fixed an issue where LDAP mode used to get disabled due to version and size mismatch.
- Fixed an issue where HTTP calls to Rest server (through a web server) to create installset, initiate

installset, and read installset was unstable leading to failure in BundleUpdate.

- Fixed an issue where data from Redfish when appended with available data, use to generate unexpected data.
- Fixed an issue where ME was sending the wrong peci command code in response.
- Fixed an issue where SMBIOS data file present in NAND is removed and recreated every time server reboots.
- Fixed an issue where physical drive status was reported incorrectly in SNMP.
- Fixed an issue of invalid values for SNMP OIDs during SNMPWALK.

### **Enhancements:**

- Improved error messaging for HPE iLO Two Factor Authentication.
- Enhancement to the secure boot feature to support higher certificate count and length.
- Support for SPDMM 1.2 specification.
- Added IML alert and Redfish Alert to report the following Intel Processor PROCHOT status:
  - Warning alert or an event when an active PROCHOT is longer than 60 seconds.
  - Repair alert or an event when there is a nonactive PROCHOT status.
- Support for Fan speed in terms of percentage from SNMP OID Get and Walk.
- Support for Active Directory Log in for group sizes larger than 300 and up to 800.
- Support for Floating Values in Redfish as per DMTF specification.
- Support for minimum 15 concurrent sessions per user for each interface.
- Support for InfiniBand NDR/Ethernet 400Gb 1-port OSFP PCIe5 x16 MCX75310AAS-NEAT Adapter.
- Support for InfiniBand NDR200/Ethernet 200Gb 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Adapter.
- Fixes for specific SNMP OIDs for RDE capable storage controllers for controller, physical drive, and logical drive properties.
- Enhancements to network stack to support the USGv6 requirements.
- Introduction of a Redfish property to enable or disable the RFC 7217 support in iLO. By default, it is disabled. When enabled, this property changes the IPv6 SLAAC addresses of iLO from EUI-64 format to the RFC format.
- Support for consistent URIs (indexes) under Ethernet interfaces for systems in Gen 11 servers at all times.
- Ability to switch from DHCPv6 to static IPv6 address for the same IP address.
- Added Cipher #17 for IPMI over LAN and removed Cipher #0 and Cipher #1 with security issues.
- Ability for HPE iLO 6 to monitor Closed-Loop Liquid Cooling devices after the POST call completion.

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## **Identifiers for Intel Xeon E-24xx Processor for Microsoft Windows**

Version: 10.1.19886.8592 (Recommended)

### **Enhancements**

- Updated supported environments

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## Identifiers for Intel Xeon Scalable Processors (Fourth and Fifth Generation) for Microsoft Windows

Version: 10.1.19879.8585 (Recommended)

### Enhancements

- Updated support environments

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## Broadcom NetXtreme-E Driver for Microsoft Windows Server 2019

Version: 230.0.162.0 (Recommended)

### Important Note!

HPE recommends the firmware provided in Broadcom Firmware Package for BCM5741x and BCM5750x adapters, version 230.1.123.0 or later, for use with this driver.

### Fixes

- This product fixes the issue of standardized INF keyword failures in the driver's INF file.
- This product fixes the issue of static analysis warnings in WMI (Windows Management Instrumentation) string handling for OIDs (Object Identifiers).
- This product fixes the driver's queue pair suspension state-checking.

### Enhancements

- This product enhances the abortive cleanup mechanisms for NDSPI interfaces.
- This product enhances the cleanup of adapter instance structures during driver unloading.
- This product enhances the cleanup process for NDIS DMA resources when the driver is unloaded.
- This product enhances event log messaging.

### Supported Devices and Features

This product supports the following network adapters:

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

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## Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022

Version: 230.0.162.0 (Recommended)

### Important Note!

HPE recommends the firmware provided in Broadcom Firmware Package for BCM5741x and BCM5750x adapters, version 230.1.123.0 or later, for use with this driver.

### Fixes

- This product fixes the issue of standardized INF keyword failures in the driver's INF file.
- This product fixes the issue of static analysis warnings in WMI (Windows Management Instrumentation) string handling for OIDs (Object Identifiers).
- This product fixes the driver's queue pair suspension state-checking.

### **Enhancements**

- This product enhances the abortive cleanup mechanisms for NDSPI interfaces.
- This product enhances the cleanup of adapter instance structures during driver unloading.
- This product enhances the cleanup process for NDIS DMA resources when the driver is unloaded.
- This product enhances event log messaging.

### **Supported Devices and Features**

This product supports the following network adapters:

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

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

Version: 221.0.6.0 (Recommended)

### **Important Note!**

- HPE recommends the firmware provided in HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.4.2.0 or later, for use with this driver.

### **Enhancements**

- This product enhances to update the install section for Device ID mapping to enable the missing configuration.
- This product enhances to compile with WDK (Windows Driver Kit) 26080.
- This product enhances to update project makefile and INF file for compilation with the new toolchain.

### **Supported Devices and Features**

This product supports the following network adapters:

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

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## **HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8**

Version: 1.10.3-230.0.132.0 (Recommended)

### **Important Note!**

HPE recommends the HPE Broadcom NetXtreme-E Firmware Version, 230.1.123000 or later, for use with this driver.

### **Prerequisites**

This product is required to unload inbox NIC driver before install OOB driver if user want OOB driver to take effect immediately. Otherwise, OOB driver will take effect after system reboot under inbox driver is loaded.

## **Fixes**

- This product addresses an issue when reattaching a slave device to a network bond with HWRM (Hardware Resource Manager).
- This product addresses the mutex deadlock issue when loading/unloading the bonding and bnxt\_re drivers.
- This product addresses the problem where the automated process for installing RoCE drivers.
- This product addresses the problem when allocating memory with the GFP flag.
- This product addresses an issue that causes the system to crash when a virtual machine (VM) with hardware Link Aggregation Group (LAG) enabled is removed.
- This product addresses an issue where the system would crash during the process of offloading network flows to hardware.
- This product addresses an issue where the system would experience a kernel panic when unloading a module while xdpsock is running.
- This product addresses the issue where fix bug in error handling code path of the probe.
- This product addresses an issue where kernel warnings on 6.5 and newer kernels.
- This product addresses an issue where an error occurs when attempting to reinitialize a Virtual Function (VF) after performing a firmware reset and reinitializing the Physical Function (PF).
- This product addresses an issue where fix RSS table size calculation.

## **Enhancements**

- This product enhances driver logging error messages.
- This product enhances a log message in case of failure.
- This product enhances the ethtool maximum pre-set value for the combined channels.
- This product enhances to prevent fortify memory copy warnings and errors.
- This product enhances ntuple, RSS contexts, and improved PTP timeout.

## **Supported Devices and Features**

This product supports the following network adapters:

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

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## **HPE Broadcom NetXtreme-E Drivers for VMware vSphere 7.0**

Version: 2024.09.00 (Recommended)

## **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 vib depot.hpe.com webpages, plus an HPE specific CPOxxxxx.xml file.
- HPE recommends the HPE Broadcom NetXtreme-E Firmware Version, 230.1.123000 or later, for use with this driver.

## **Fixes**

This product addresses the problem to enabling NPAR+ SRIOV (more than supported VFs through Driver)

causes system failure.

### **Enhancements**

- This product enhances RoCE command size trimming.
- This product enhances driver logging to capture non-supported dual-rate transceiver async errors.

### **Supported Devices and Features**

This product supports the following network adapters:

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

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## **HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0**

Version: 2024.09.00 (Recommended)

### **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 vib depot.hpe.com webpages, plus an HPE specific CPOxxxxx.xml file.
- HPE recommends the HPE Broadcom NetXtreme-E Firmware Version, 230.1.123000 or later, for use with this driver.

### **Fixes**

This product addresses the problem to enabling NPAR+ SRIOV (more than supported VFs through Driver) causes system failure.

### **Enhancements**

- This product enhances RoCE command size trimming.
- This product enhances driver logging to capture non-supported dual-rate transceiver async errors.

### **Supported Devices and Features**

This product supports the following network adapters:

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

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## **HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 9.**

Version: 230.0.132.0 (Recommended)

### **Prerequisites**

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

### **Fixes**

- This product addresses an issue when reattaching a slave device to a network bond with HWRM

(Hardware Resource Manager).

- This product addresses the mutex deadlock issue when loading/unloading the bonding and bnxt\_re drivers.
- This product addresses the problem where the automated process for installing RoCE drivers.
- This product addresses the problem when allocating memory with the GFP flag.
- This product addresses an issue that causes the system to crash when a virtual machine (VM) with hardware Link Aggregation Group (LAG) enabled is removed.
- This product addresses an issue where the system would crash during the process of offloading network flows to hardware.
- This product addresses an issue where the system would experience a kernel panic when unloading a module while xdpsock is running.
- This product addresses the issue where fix bug in error handling code path of the probe.
- This product addresses an issue where kernel warnings on 6.5 and newer kernels.
- This product addresses an issue where an error occurs when attempting to reinitialize a Virtual Function (VF) after performing a firmware reset and reinitializing the Physical Function (PF).
- This product addresses an issue where fix RSS table size calculation.

### **Enhancements**

- This product enhances driver logging error messages.
- This product enhances a log message in case of failure.
- This product enhances the ethtool maximum pre-set value for the combined channels.
- This product enhances to prevent fortify memory copy warnings and errors.
- This product enhances ntuple, RSS contexts, and improved PTP timeout.

### **Supported Devices and Features**

This product supports the following network adapters:

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

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## **HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 8**

Version: 3.139m-1 (Recommended)

### **Important Note!**

HPE recommends the firmware provided in HPE NX1 Broadcom Online Firmware Upgrade Utility for Linux x86\_64, version 2.38.x or later, for use with these drivers.

### **Prerequisites**

This product is required to unload inbox NIC driver before install OOB driver if user want OOB driver to take effect immediately. Otherwise, OOB driver will take effect after system reboot under inbox driver is loaded.

### **Enhancements**

- This product enhances to support for more Linux distributions.

- This product enhances to implement compact code to handle the kernel DMA API for tg3.

### **Supported Devices and Features**

These drivers support the following network adapters:

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

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### **HPE Intel iavf Drivers for Red Hat Enterprise Linux 8**

Version: 4.11.2-1 (Recommended)

### **Important Note!**

HPE recommends the firmware provided below,

- HPE Intel Online Firmware Upgrade Utility for Linux x86\_64, version 1.31.0 or later, for use with these drivers.
- Intel Online Firmware Upgrade Utility for Linux x86\_64, version 1.31.0 or later, for use with these drivers.
- Intel Firmware Package For E810, version 4.50 or later for use with these drivers.

### **Fixes**

- This product fixes an issue where VLAN set operation may leads to deadlock.
- This product fixes an issue where a NULL pointer dereference in early reset.
- This product fixes an issue where users fail to change the number of queues (channels).
- This product fixes an issue where system hang when VFs are created and VLAN configured.

### **Enhancements**

This product now supports Red Hat Enterprise Linux 8 update 10.

### **Supported Devices and Features**

This product supports the following network adapters:

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

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### **HPE Intel igb Drivers for Red Hat Enterprise Linux 8**

Version: 6.16.9-1 (Recommended)



### **Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86\_64, version 1.31.0 or later, for use with these drivers.

### **Enhancements**

This product now supports Red Hat Enterprise Linux 8 update 10.

### **Supported Devices and Features**

These drivers support the following network adapters:

- Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE
- Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE

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## **HPE Intel igbn Driver for VMware vSphere 7.0**

Version: 2024.09.00 (Recommended)

### **Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for VMware, version 3.24.0 or later, for use with this driver.

### **Enhancements**

This product added support to new Gen11 servers.

### **Supported Devices and Features**

These drivers support the following network adapters:

- Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE
- Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE

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## **HPE Intel igbn Driver for VMware vSphere 8.0**

Version: 2024.09.00 (Recommended)

### **Important Note!**

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for VMware, version 3.24.0 or later, for use with this driver.

### **Enhancements**

This product added support to new Gen11 servers.

### **Supported Devices and Features**

These drivers support the following network adapters:

- Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE
- Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE

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## HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 8 Update 9 (x86\_64)

Version: 24.04-0.6.6.1 (Recommended)

### **Important Note!**

Mellanox Ethernet + RoCE Linux driver (mlnx-ofa\_kernel RPMs) supports only Ethernet mode of operation with RoCE (RDMA over Converged Ethernet) functionality for HPE Mellanox Ethernet-only adapters and HPE Mellanox VPI (Virtual Protocol Interconnect) adapters configured to operate in Ethernet mode. For customers requiring complete InfiniBand functionality or "InfiniBand + Ethernet" modes of operation on the same node, install HPE signed MLNX-OFED drivers from Linux Software Delivery Repository ([https://downloads.linux.hpe.com/SDR/project/mlnx\\_ofed\\_cx4plus/](https://downloads.linux.hpe.com/SDR/project/mlnx_ofed_cx4plus/)).

### **Fixes**

- An issue related to the comparison process between the SW steering and FW steering modes to avoid kernel crashes incidences.

The following issues have been fixed in version 24.04-0.6.6.1:

- The tc\_wrap tool did not work properly when VLAN was configured as the tool incorrectly handled the library function return value.
- An IPSec issue that resulted in Crypto offload getting disabled.
- Memory corruption issue when running XDP traffic.
- IFA packets were sent from the incorrect port on VF LAG.
- An issue that caused a deadlock in the flow of disabling the LAG when changing eswitch mode from switchdev to legacy when a LAG bond existed on the machine.
- In systems with 64k page size, applications opening a substantial amount of RDMA resources such as UARs, QPs, and CQs might encounter errors during the creation of these resources due to limitations in PCI BAR size.
- PFC configuration was reset when updating the cable length via mlnx\_qos.

### **Enhancements**

- Added support for Live Migration. Live migration refers to the process of moving a guest virtual machine (VM) running on one physical host to another host without disrupting normal operations or causing any downtime or other adverse effects for the end user.

The following new features and changes have been included in version 24.04-0.6.6.1:

- Added support for multicast control path packet snooping (IGMP/MLD) and offload of MDB notifications in order to replicate multicast traffic to multiple destinations in the hardware.
- Increased the netdev maximum channels from 128 to 256 for systems with a high number of cores.
- Enhanced performance by removing the internal Rx path from the internal page cache, thus allowing the driver to always use the kernel's page\_pool.
- Enhanced performance by adding the following modifications in XDP:
  - Added XDP multi-buffer support to the default RQ type (Striding RQ)
  - Added support for XDP multi-buffer redirect-in
  - Allowed non-linear single-segment frames in XDP TX MPWQE

- Increased the maximum outstanding DC atomic reads to 32 to enable the driver to handle reads larger than 8K. Now `log_max_ra_{res/req}_dc` is exposed in DV API, enabling the user to see both RC and DC values.
  - Added support for Linux kernel DPLL subsystem as a mechanism for working with clock signals in NVIDIA's proprietary synchronous ethernet protocol daemon. This new mechanism enables the use of both VFs and SFs, and is supported starting from korg6.8.
  - Limited the number of MADs received on the wire that are queued in the kernel as they are waiting for the user-space application to 200k per umad file. By that, preventing malicious or faulty behavior of flooding a node with MADs and exhausting its memory.
  - Added the option to expose offloaded FDB state (flags, counters, etc.) via debugfs for debugging purposes.
- ```
$ cat mlx5/0000000000000000/esw/bridge/bridge1/fdb DEV MAC VLAN PACKETS BYTES LASTUSE FLAGS
enp8s0f0_1 e4:0a:05:08:00:06 2 2 204 4295567112 0x0 enp8s0f0_0 e4:0a:05:08:00:03 2 3 278
4295567112 0x0
```
- Added support for over KORG 6.7 read `frequency_diff`.

Supported Devices and Features

SUPPORTED KERNELS: The kernels of Red Hat Enterprise Linux 8 update 9 (x86_64) supported by this binary rpm are:

- 4.18.0-513.5.1.el8_9 (x86_64) and future update kernels.

Intel i350 Driver for Windows Server 2019

Version: 14.0.5.0 (Recommended)

Important Note!

HPE recommends the firmware provided in Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.4.2.0 or later, for use with this driver.

Enhancements

This product enhanced the compatibility with firmware of Fortville 9.5.

Supported Devices and Features

This driver supports the following HPE Intel E1R network adapters:

- Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE
- Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE

Intel i350 Driver for Windows Server 2022

Version: 14.0.5.0 (Recommended)

Important Note!

HPE recommends the firmware provided in Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.4.2.0 or later, for use with this driver.

Enhancements

This product enhanced the compatibility with firmware of Fortville 9.5.

Supported Devices and Features

This driver supports the following HPE Intel E1R network adapters:

- Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE
- Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE

Intel ice Drivers for Red Hat Enterprise Linux 8

Version: 1.14.11-1 (Recommended)

Important Note!

HPE recommends the firmware provided in Intel Firmware Package For E810, version 4.50 or later for use with these drivers.

Fixes

This product fixes an issue where the unexpected FW logs appears during some special environments, such as tx_timeout or NVM update.

Enhancements

- This product now supports the Link Layer Discovery Protocol (LLDP) on the VF.
- This product now supports firmware logging via the debugfs.
- This product now supports Red Hat Enterprise Linux 8 update 10.

Supported Devices and Features

This product supports the following network adapters:

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

Intel icea Driver for Microsoft Windows Server 2022

Version: 1.15.121.0 (Recommended)

Important Note!

HPE recommends the firmware provided in Intel Firmware Package for Columbiaville (FWPKG), version 4.50 or later, for use with this driver.

Fixes

- This product correct an issue which seeing warning message Event ID : 101 with ICEA module.

- This product correct an issue which E810 physical adapter does not display RDMA counters.

Enhancements

This product enhanced the compatibility with firmware of Columbiaville 4.5.

Supported Devices and Features

This driver supports the following HPE Intel ICEA network adapters:

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

Intel icea Driver for Windows Server 2019

Version: 1.15.121.0 (Recommended)

Important Note!

HPE recommends the firmware provided in Intel Firmware Package for Columbiaville (FWPKG), version 4.50 or later, for use with this driver.

Fixes

This product correct an issue which E810 physical adapter does not display RDMA counters.

Enhancements

This product enhanced the compatibility with firmware of Columbiaville 4.5.

Supported Devices and Features

This driver supports the following HPE Intel ICEA network adapters:

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

Intel icen Driver for VMware vSphere 7.0

Version: 2024.09.00 (Recommended)

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 vibsddepot.hpe.com webpages, plus an HPE

specific CP0xxxxx.xml file.

- HPE recommends the firmware provided in Intel Firmware Package For E810 Ethernet Adapter, version 4.50 or later, for use with these drivers.

Fixes

This product fixed an issue which NIC port was in autonegotiation mode, many DOWN/UP sequences was applied by the link partner, and NIC port remained in DOWN state randomly.

Enhancements

This product added a warning message when RDMA critical error occurs.

Supported Devices and Features

This product supports the following network adapters:

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

Intel icen Driver for VMware vSphere 8.0

Version: 2024.09.00 (Recommended)

Important Note!

- This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.
- HPE recommends the firmware provided in Intel Firmware Package For E810 Ethernet Adapter, version 4.50 or later, for use with these drivers.

Fixes

This product fixed an issue which NIC port was in autonegotiation mode, many DOWN/UP sequences was applied by the link partner, and NIC port remained in DOWN state randomly.

Enhancements

This product added a warning message when RDMA critical error occurs.

Supported Devices and Features

This product supports the following network adapters:

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

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

Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2019

Version: 24.4.26429.0 (Recommended)

Fixes

This product fixed BSOD event not being detected when collecting mstdump on BUGCHECK while the device was already down.

Supported Devices and Features

This driver supports the following network adapters:

- Mellanox MCX623105AS-VDAT Ethernet 200Gb 1-port QSFP56 Adapter for HPE
- Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE
- Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE

Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2022

Version: 24.4.26429.0 (Recommended)

Fixes

This product fixed BSOD event not being detected when collecting mstdump on BUGCHECK while the device was already down.

Supported Devices and Features

This driver supports the following network adapters:

- Mellanox MCX623105AS-VDAT Ethernet 200Gb 1-port QSFP56 Adapter for HPE
- Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE
- Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE

Nvidia ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 "nmlx5_en" Driver Component for VMware ESXi 7.0 Update 3

Version: 2024.05.28 (Recommended)

Important Note!

Important: Version 4.22.73.1006 supports VMware ESXi 7.0 Update 3 only. Known Issues with driver version 4.22.73.1006:

- Out-of-buffer packets are not being counted as Rx drops.
- Due to hardware limitations, Model 1 Level 2 and Model 2 for Enhanced Network Stack (ENS) mode in vSphere 8.0 is not supported in ConnectX-5 and ConnectX-6 adapter cards.
- The driver version in iDRAC is not displayed correctly.
- Geneve options length support is limited to 56B. Received packets with options length bigger than 56B are dropped.

- A mismatch between the uplink and the VF MTU values may result in CQE with error.
- Enabling `sriov_mc_isolation` module parameter may result in vmknics and emulated NICs multicast and IPv6 traffic loss.

Workaround:: Align the uplink and the VF MTU values. Workaround: Unset or set the module parameter to 0.

- RDMA is not supported in the Hypervisor with ENS (Enhanced Network Stack) model 2.
- Setting the "Allow Guest MTU Change" option in vSphere Client is currently not functional. Although guest MTU changes in SR-IOV are allowed, they do not affect the port's MTU and the guest's MTU remains the same as the PF MTU.
- ECN (Explicit congestion notification) statistic counters `accumulatorsPeriod` and `ecnMarkedRocePackets` display wrong values and cannot be cleared.
- ECN tunable parameter `initialAlphaValue` for the Reaction Point protocol cannot be modified.
- Card's speed remains zero after port goes down and reboot is performed.
- RoCE traffic may fail after vMotion when using namespace.
- Legacy SR-IOV is not supported with Model 1.
- When in ENS mode, changing the scheduler to HCLK, may cause traffic loss.
- The `'esxcli mellanox uplink link info -u <vmnic_name>'` command reports the 'Auto negotiation' capability always as 'true'.
- SMP MADs (`ibnetdiscover`, `sminfo`, `iblinkinfo`, `smpdump`, `ibqueryerr`, `ibdiagnet` and `smpquery`) are not supported on the VFs.
- Although the `max_vfs` module parameter range is "0-128", due to firmware limitations, the following are the supported VFs per single port devices:
 - ConnectX-4 / ConnectX-5: up to 127

Fixes

- Performance issues were observed due to context switches over the hardware priority buffers that caused slower packet being sent when sending traffic with many different VLAN (CoS PCP/801.2p) priorities. To fix the issue, the driver provides a new module parameter `trust_dscp_same_priority` to map all DSCP priorities to the same traffic class to avoid such behavior.

The following issues have been fixed in driver version 4.22.73.1006:

- A specific steering rule creation issue when the teaming mode is on.
- Packets were dropped by ENS that were not set as MARK. Now MARK actions are available in both LAG and no LAG modes.

Enhancements

Intel QuickAssist Technology driver for Microsoft Windows

Version: 2.3.0.6 (Optional)

Enhancements

- Updated Supported Environments
- Updated Supported Platforms

HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen11 controller Driver for 64-bit Red Hat Enterprise Linux 8

Version: 07.726.04.00 (Recommended)

Fixes

Fix an issue that kernel WARNING with call trace may be logged when server shut down/rebooted

Enhancements

- New OS support for RHEL8u9.
- Support new HPE ProLiant DL145 Gen11 server.

HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller (64-bit) Driver for vSphere 7.0

Version: 2023.12.01 (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 vibspot.hpe.com webpages, plus an HPE specific CPXXXX.xml file.

Enhancements

- New release for version 7.726.02.00.
- Support new HPE ProLiant DL145 Gen11 server.

HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller (64-bit) Driver for vSphere 8.0

Version: 2023.12.01 (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 vibspot.hpe.com webpages, plus an HPE specific CPXXXX.xml file.

Enhancements

- New release for version 7.726.02.00.
- This new 7.26 release have not completed vSAN certification, please don't update for vSAN environment for now. Target to complete vSAN certification by end of February 2024.
- Support new HPE ProLiant DL145 Gen11 server.

HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller Driver for Microsoft Windows 2019 edition

Version: 7.726.1.0 (Recommended)

Enhancements

- New release for version 7.726.1.0.
- Support new HPE ProLiant DL145 Gen11 server.

HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller driver for Microsoft Windows 2022 edition

Version: 7.726.1.0 (Recommended)

Enhancements

- New release for version 7.726.1.0.
- Support new HPE ProLiant DL145 Gen11 server.

HPE ProLiant Gen10 Smart Array and Gen10 Plus and Gen11 Smart RAID Controller Driver for VMware vSphere 7.0 (Driver Component).

Version: 2024.10.01 (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, plus an HPE specific CPXXXX.xml file.
- Actual ESXi Version is 7.0.4672.0.104

Fixes

- Fixed an issue where a PSOD occurred during array delete operations.
- Fixed an issue where failed logical volumes take too long to be removed at the OS level.
- Fixed an issue where NVMe drives were not discovered after hot-plug operation.
- Fixed a potential data loss risk for SmartCache Logical Drives configured in WriteBack mode during shutdown.

HPE ProLiant Gen10 Smart Array and Gen10 Plus and Gen11 Smart RAID Controller Driver for VMware vSphere 8.0 (Driver Component).

Version: 2024.10.01 (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, plus an HPE specific CPXXXX.xml file.
- Actual ESXi Version is 8.0.4672.0.104

Fixes

- Fixed an issue where a PSOD occurred during array delete operations.
- Fixed an issue where failed logical volumes take too long to be removed at the OS level.
- Fixed an issue where NVMe drives were not discovered after hot-plug operation.
- Fixed a potential data loss risk for SmartCache Logical Drives configured in WriteBack mode during shutdown.

HPE ProLiant Gen10, Gen10Plus and Gen11 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 8 (64-bit)

Version: 2.1.30-031 (Recommended)

Fixes

- Fixed an issue where the driver incorrectly handled multi-path failover.
- Fixed an issue where the driver could hang under heavy I/O load.

Supported Devices and Features

-default- Red Hat Enterprise Linux 8 Update 0 (64-bit).

HPE Smart Array Gen10, Gen10Plus and Gen11 Controller Driver for Windows Server 2019 and Windows Server 2022

Version: 1010.108.0.1015 (Recommended)

Important Note!

- No Windows 2016 driver updates are available. Windows 2016 driver development has ended with version 1010.84.0.1012.
- Windows 2025 support is not yet available in this driver version. It will be included in the next release.

Fixes

- Fixed an issue with controllers having encrypted boot logical drives using Remote Key Management Mode.

HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2019

Version: 14.4.313.0 (Recommended)

Important Note!

Release notes:Broadcom Release notes

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:<http://www.hpe.com/storage/spock/>

Enhancements

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

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

- HPE SN1610E 32Gb Single port Fibre Channel Host Bus Adapter
- HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter

HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2022

Version: 14.4.313.0 (Recommended)

Important Note!

Release notes:Broadcom Release notes

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:<http://www.hpe.com/storage/spock/>

Enhancements

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

C:\Users\Administrator\Documents\Emulex\Drivers\FC-version Each kit folder has subsequent architecture folders with subsequent OS folders. For example,
C:\Users\Administrator\Documents\Emulex\Drivers\FC-version\x64\win2022

Supported Devices and Features

- HPE SN1610E 32Gb Dual port Fibre Channel Host Bus Adapter
- HPE SN1610E 32Gb Single port Fibre Channel Host Bus Adapter
- HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter

HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2019

Version: 9.4.10.20 (Recommended)

Important Note!

Release Notes:HPE QLogic Adapters Release Notes

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:<http://www.hpe.com/storage/spock/>

Enhancements

Updated to version 9.4.10.20

Supported Devices and Features

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

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

HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2022

Version: 9.4.10.20 (Recommended)

Important Note!

Release Notes:HPE QLogic Adapters Release Notes

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:<http://www.hpe.com/storage/spock/>

Enhancements

Updated to version 9.4.10.20

Supported Devices and Features

- HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter

Red Hat Enterprise Linux 8 Update 9 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters

Version: 14.4.329.9 (Recommended)

Important Note!

Release notes:Broadcom Release notes

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:<http://www.hpe.com/storage/spock/>

Enhancements

Version updated to 14.4.329.9

Supported Devices and Features

- HPE SN1610E 32Gb Dual port Fibre Channel Host Bus Adapter
- HPE SN1610E 32Gb Single port Fibre Channel Host Bus Adapter
- HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter

Red Hat Enterprise Linux 8 Update 9 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapter

Version: 10.02.12.01-k1 (Recommended)

Important Note!

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:<http://www.hpe.com/storage/spock/>

Supported Devices and Features

- HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter

Broadcom PCIe Switch Management Driver for Microsoft Windows Server 2019

Version: 2.61.54.0 (B) (Optional)

Enhancements

- Updated Supported Device
- Updated SBOM requirement

Supported Devices and Features

- Broadcom PCIe Switch Management Port PEX890xx

iLO 6 Automatic Server Recovery Driver for Microsoft Windows Server 2019

Version: 4.7.1.0 (D) (Optional)

Enhancements

- Updated supported platforms

iLO 6 Automatic Server Recovery Driver for Microsoft Windows Server 2022

Version: 4.7.1.0 (E) (Optional)

Enhancements

- Updated supported platforms

iLO 6 Channel Interface Driver for Microsoft Windows Server 2019

Version: 4.7.1.0 (D) (Optional)

Enhancements

- Updated supported platforms

iLO 6 Channel Interface Driver for Microsoft Windows Server 2022

Version: 4.7.1.0 (E) (Optional)

Enhancements

- Updated supported platforms

Matrox G200eH3 Video Controller Driver for Microsoft Windows Server 2019, 2022 and 2025

Version: 9.15.1.268 (Optional)

Enhancements

- Added Supported Environments

Broadcom Firmware Package for BCM5741x adapters

Version: 230.1.123.0 (Recommended)

Important Note!

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

- Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 230.0.162.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-230.0.132.0 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2024.09.00 or later

Fixes

- This product addresses an issue where getting Transceiver Temperature erroneous unit value.
- This product addresses an issue when NC-SI Query Pending NC PLDM Response is wrong when NIC does not have a pending PLDM request.
- The product addresses an issue where temperature error messages exceed critical values as seen in the Redfish Device Enablement (RDE) Ports schema when the LinkState is set to Disabled.

Enhancements

- This product enhances the Get Package Status command support.
- This product enhances to add a warning message when a non-supported dual-rate transceiver is used.
- This product enhances the Addition of SFF 8472 Transceiver Power Details to RDE Port Metrics.

Broadcom Firmware Package for BCM5750x adapters

Version: 230.1.123.0 (Recommended)

Important Note!

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

- Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 230.0.162.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-230.0.132.0 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2024.09.00 or later

Fixes

- This product addresses an issue where RDE Port LLDPReceive ManagementAddressMAC returned empty

string when it's not present.

- This product addresses an issue where Ethtool shows wrong module type when a port is in a certain breakout mode.
- This product addresses an issue where in low temperature test, BMC reading module temperature result is 0xff.
- This product addresses an issue where failure to set default values for firmware speed capabilities.
- This product enhances support for loopback port statistics via HWRM (Hardware Resource Manager).
- This product addresses an issue where flow control status in dmesg shows wrong TX and RX negotiated status.
- This product addresses an issue where fixed bnxtnvm to verify the VPD data before writing to the NVM.
- This product addresses an issue where ping failures between allmulticast enabled VFs.
- This product addresses where the RoCE protocol's read_context function in the HWRM (Hardware Resource Manager) component was failing when dealing with the Completion Queue.

Enhancements

- This product enhances the core-dump missing a few entries.
- This product enhances the Hardware CoS queue re-configuration between ifdown/ifup.
- This product enhances to add support for enable/disable RDMA to NCSI command NcsiCmd_Set_Partition_Cfg_cmd function.
- This product enhances to add support store PLDM Monitoring and Control events before BMC's SetEventReceiver command.
- This product addresses an issue where Tx timeout detected in dmesg while running L2 traffic with 9600 MTU.

Supported Devices and Features

This product supports the following network adapters:

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

Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64

Version: 2.38.0 (Recommended)

Important Note!

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

Prerequisites

- Follow the command line to bring up ethernet device:

Also, install the Out of Box (OOB) and ensure the driver is loaded and running before attempting the firmware update. # ifup ethX or ifconfig ethX up or wicked ifup ethXIf local system doesn't configure any network interface for the adapter that are necessary then to create the network config file to bring up interface.

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

Fixes

- This product addresses a problem that might cause a BSOD when trying to reboot the system from operating Windows systems due to NIC internal software mutex problem.
- This product addresses an issue where a random missing DHCP IP address occurs when the iLO shared NIC port is used, due to NIC internal software mutex problem.
- This product addresses an issue that might cause the POST to get stuck due to NIC internal software mutex problem.

Supported Devices and Features

- Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE

This product supports the following network adapters:

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

Broadcom NX1 Online Firmware Upgrade Utility for VMware

Version: 1.39.0 (Recommended)

Important Note!

This software package contains combo image v20.30.41 with the following firmware versions:

NIC	Boot Code Version	PXE Version	NCSI Version	UEFI Version
BCM 5719 1GbE 4p BASE-T Adptr	1.55	21.6.4	1.5.55	21.6.74
BCM 5719 1GbE 4p BASE-T OCP3 Adptr	1.55	21.6.4	1.5.55	21.6.74
BCM 5720 1GbE 2p BASE-T LOM Adptr	1.43	21.6.4	1.5.55	21.6.74

Prerequisites

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

Fixes

- This product addresses a problem that might cause a BSOD when trying to reboot the system from operating Windows systems due to NIC internal software mutex problem.
- This product addresses an issue where a random missing DHCP IP address occurs when the iLO shared NIC port is used, due to NIC internal software mutex problem.
- This product addresses an issue that might cause the POST to get stuck due to NIC internal software mutex problem.

Supported Devices and Features

This product supports the following network adapters:

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

Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions

Version: 5.4.2.0 (Recommended)

Important Note!

This software package contains combo image v20.30.41 with the following firmware versions:

NIC	Boot Code Version	PXE Version	NCSI Version	UEFI Version
BCM 5719 1GbE 4p BASE-T Adptr	1.55	21.6.4	1.5.55	21.6.74
BCM 5719 1GbE 4p BASE-T OCP3 Adptr	1.55	21.6.4	1.5.55	21.6.74
BCM 5720 1GbE 2p BASE-T LOM Adptr	1.43	21.6.4	1.5.55	21.6.74

Prerequisites

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

Fixes

- This product addresses a problem that might cause a BSOD when trying to reboot the system from operating Windows systems due to NIC internal software mutex problem.
- This product addresses an issue where a random missing DHCP IP address occurs when the iLO shared NIC port is used, due to NIC internal software mutex problem.
- This product addresses an issue that might cause the POST to get stuck due to NIC internal software mutex problem.

Supported Devices and Features

This product supports the following network adapters:

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

Intel Firmware Package For E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter

Version: 4.50 (Recommended)

Important Note!

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

- Intel icea Driver for Microsoft Windows Server, version 1.15.121.0 or later
- Intel ice Drivers for Linux, version 1.14.11-1 or later
- Intel icen Driver for VMware, version 2024.09.00 or later

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

Fixes

- This product addressed an issue where Network Interface initialization failure under OS or Firmware

rollback may be seen with LLDP enabled.

- This product addressed an issue where RDE PermanentMACAddress changes simultaneously when send PATCH request for MACAddress property with Firmware 4.30.

Enhancements

This product introduced power restrictions of 4.5 watts per port.

Supported Devices and Features

This product supports the following network adapters:

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

Intel Firmware Package For E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter

Version: 4.50 (Recommended)

Important Note!

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

- Intel icea Driver for Microsoft Windows Server, version 1.15.121.0 or later
- Intel ice Drivers for Linux, version 1.14.11-1 or later
- Intel icen Driver for VMware, version 2024.09.00 or later

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

Fixes

- This product addressed an issue where Network Interface initialization failure under OS or Firmware rollback may be seen with LLDP enabled.
- This product addressed an issue where RDE PermanentMACAddress changes simultaneously when send PATCH request for MACAddress property with Firmware 4.30.

Enhancements

This product introduced power restrictions of 4.5 watts per port.

Supported Devices and Features

This product supports the following network adapters:

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

Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter

Version: 4.50 (Recommended)

Important Note!

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

- Intel icea Driver for Microsoft Windows Server, version 1.15.121.0 or later
- Intel ice Drivers for Linux, version 1.14.11-1 or later

- Intel icen Driver for VMware, version 2024.09.00 or later

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

Fixes

- This product addressed an issue where Network Interface initialization failure under OS or Firmware rollback may be seen with LLDP enabled.
- This product addressed an issue where RDE PermanentMACAddress changes simultaneously when send PATCH request for MACAddress property with Firmware 4.30.

Enhancements

This product introduced power restrictions of 4.5 watts per port.

Supported Devices and Features

This product supports the following network adapters:

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

Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter

Version: 4.50 (Recommended)

Important Note!

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

- Intel icea Driver for Microsoft Windows Server, version 1.15.121.0 or later
- Intel ice Drivers for Linux, version 1.14.11-1 or later
- Intel icen Driver for VMware, version 2024.09.00 or later

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

Fixes

- This product addressed an issue where Network Interface initialization failure under OS or Firmware rollback may be seen with LLDP enabled.
- This product addressed an issue where RDE PermanentMACAddress changes simultaneously when send PATCH request for MACAddress property with Firmware 4.30.

Enhancements

This product introduced power restrictions of 4.5 watts per port.

Supported Devices and Features

This product supports the following network adapters:

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

Intel Firmware Package For E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter

Version: 4.50 (Recommended)

Important Note!

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

- Intel icea Driver for Microsoft Windows Server, version 1.15.121.0 or later
- Intel ice Drivers for Linux, version 1.14.11-1 or later
- Intel icen Driver for VMware, version 2024.09.00 or later

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

Fixes

- This product addressed an issue where Network Interface initialization failure under OS or Firmware rollback may be seen with LLDP enabled.
- This product addressed an issue where RDE PermanentMACAddress changes simultaneously when send PATCH request for MACAddress property with Firmware 4.30.
- This product addressed an issue where data is interchanged of Port 1 and Port 4 when running a Redfish GET Operation under the NetworkAdapter, NetworkDeviceFunctions and Port Schema with "Metrics" properties.

Enhancements

This product introduced power restrictions of 4.5 watts per port.

Supported Devices and Features

This product supports the following network adapters:

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

Intel Online Firmware Upgrade Utility for Linux x86_64

Version: 1.31.0 (Recommended)

Prerequisites

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

Enhancements

This product enhanced the compatibility with the latest drivers.

Supported Devices and Features

This package supports the following network adapters:

- HPE Ethernet 1Gb 4-port BaseT I350-T4 Adapter
- HPE Ethernet 1Gb 4-port BaseT I350-T4 OCP3 Adapter

Intel Online Firmware Upgrade Utility for VMware

Version: 3.24.0 (Recommended)

Important Note!

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

NIC	EEPROM/N VM Version	OROM Version	NVM Version
Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter	800011F8	1.3602.0	N/A
Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter	80001234	1.3602.0	N/A

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.

Enhancements

This product enhanced the compatibility with the latest drivers.

Supported Devices and Features

This package supports the following network adapters:

- HPE Ethernet 1Gb 4-port BaseT I350-T4 Adapter
- HPE Ethernet 1Gb 4-port BaseT I350-T4 OCP3 Adapter

Intel Online Firmware Upgrade Utility for Windows Server x64 Editions

Version: 5.4.2.0 (Recommended)

Important Note!

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

NIC	EEPROM/N VM Version	OROM Version	NVM Version
Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter	800011F8	1.3602.0	N/A
Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter	80001234	1.3602.0	N/A

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.

Enhancements

This product enhanced the compatibility with the latest drivers.

Supported Devices and Features

This package supports the following network adapters:

- HPE Ethernet 1Gb 4-port BaseT I350-T4 Adapter
- HPE Ethernet 1Gb 4-port BaseT I350-T4 OCP3 Adapter

Mellanox Firmware Package (FWPKG) - Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE

Version: 26.41.1000 (Recommended)

Important Note!

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Prerequisites

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

Fixes

- Traffic failure occurred when modifying the VIRTIO_NET_F_MRG_RXBUF bit for the VDPA device during traffic.

The following issues have been fixed in version 26.41.1000:

- The second mkey index returned even if it was not set in the creation of the virtio q when querying virtio q object.
- Traffic loss occurred after performing Live Migration with virtio vq "frozen-ready" feature.

Note: When the traffic load is high, and the vq frozen-ready cap is on, traffic loss might still be experienced after modifying the vq from suspend to ready mode.

Enhancements

Security Hardening Enhancements:

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

New features and changes included in version 26.41.1000:

- Implemented Deterministic Random Bit Generator (DRBG) algorithm on top of firmware TRNG (the source for raw data input) in accordance with NIST SP800-90A.
- Added support for vDPA virtual queue state change from suspend to ready, and discrete mkey for

descriptor. vDPA Live Migration uses these two new capabilities to reduce downtime since vq can go back to ready state for traffic and descriptor-only-mkey can help reduce mkey mapping time.

- Added a new NVConfig option to copy AR bit from the BTH header to the DHCP header.
- Added the option to provide field's offset and length in Steering add_action option.
- Added support for steering match on packet l4_type through FTG/FTE.
- Extended Flex Parser merge mechanism to support hardware capabilities.
- Enabled the option to disable the native parser when the parse graph node is configured with the same conditions.
- Added support for father/son headers parsing.
- Added support for tunnel_offload in LRO.

Supported Devices and Features

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

Mellanox Firmware Package (FWPKG) - Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE

Version: 26.41.1000 (Recommended)

Important Note!

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Prerequisites

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

Fixes

- Traffic failure occurred when modifying the VIRTIO_NET_F_MRG_RXBUF bit for the VDPA device during traffic.

The following issues have been fixed in version 26.41.1000:

- The second mkey index returned even if it was not set in the creation of the virtio q when querying virtio q object.
- Traffic loss occurred after performing Live Migration with virtio vq "frozen-ready" feature.

Note: When the traffic load is high, and the vq frozen-ready cap is on, traffic loss might still be experienced after modifying the vq from suspend to ready mode.

Enhancements

Security Hardening Enhancements:

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

New features and changes included in version 26.41.1000:

- Implemented Deterministic Random Bit Generator (DRBG) algorithm on top of firmware TRNG (the source for raw data input) in accordance with NIST SP800-90A.
- Added support for vDPA virtual queue state change from suspend to ready, and discrete mkey for descriptor. vDPA Live Migration uses these two new capabilities to reduce downtime since vq can go back to ready state for traffic and descriptor-only-mkey can help reduce mkey mapping time.
- Added a new NVConfig option to copy AR bit from the BTH header to the DHCP header.
- Added the option to provide field's offset and length in Steering add_action option.
- Added support for steering match on packet l4_type through FTG/FTE.
- Extended Flex Parser merge mechanism to support hardware capabilities.
- Enabled the option to disable the native parser when the parse graph node is configured with the same conditions.
- Added support for father/son headers parsing.
- Added support for tunnel_offload in LRO.

Supported Devices and Features

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

Mellanox Firmware Package (FWPKG) for HPE Ethernet 100Gb 1-port QSFP28 PCIe3 x16 MCX515A-CCAT

Adapter : HPE part numbers P31246-B21 and P31246-H21

Version: 16.35.4030 (Recommended)

Important Note!

Choose the appropriate firmware file format based on your preference and what suits your environment. Disclaimer: Certain software including drivers and documents may be available from NVIDIA. If you select a URL that directs you to <http://www.nvidia.com/>, you are then leaving HPE.com. Please follow the instructions on <http://www.nvidia.com/> to download NVIDIA software or documentation. When downloading the NVIDIA software or documentation, you may be subject to NVIDIA terms and conditions, including licensing terms, if any, provided on its website or otherwise. HPE is not responsible for your use of any software or documents that you download from <http://www.nvidia.com/>, except that HPE may provide a limited warranty for NVIDIA software in accordance with the terms and conditions of your purchase of the HPE product or solution. A list of known issues with this release is available at:

<https://docs.nvidia.com/networking/display/connectx5firmwarev16354030lts/known+issues>

Prerequisites

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

Fixes

- VF FLR would get stuck when its PF triggered the FLR as well.

The following issues have been fixed in version 16.35.4030:

- Unexpected source UDP port appeared in RoCE packets when the firmware ignored a non-PF driver configuration for RoCE source UDP port control (as set in SET_HCA_CAP.sw_r_roce_src_udp_port).

Enhancements

Important :

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

New features and changes included in version 16.35.4030:

- Added support for postponing QP timeout "retry exceeded" errors for traffic directed at specific destinations. This new capability prevents broken connections for destinations in downtime because of live migration.

Supported Devices and Features

This software package contains the following firmware versions:

Mellanox Ethernet Only Adapters	Firmware Version	PSID
HPE Ethernet 100Gb 1-port QSFP28 PCIe3 x16 MCX515A-CCAT Adapter(P31246-B21 and P31246-H21)	16.35.4030	MT_0000000591

Mellanox Firmware Package (FWPKG) for HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe4 x16 MCX653106A-ECAT Adapter : HPE part numbers P23666-B21 and P23666-H21

Version: 20.41.1000 (Recommended)

Important Note!

Choose the appropriate firmware file format based on your preference and what suits your environment. ConnectX-6 VPI supports having one port as InfiniBand and the other port as Ethernet according to the following matrix of combinations.

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

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

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Prerequisites

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

Fixes

No fixes are included in version 20.41.1000.

Enhancements

Security Hardening Enhancements:

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

New features and changes included in version 20.41.1000:

- Added support for steering match on packet l4_type through FTG/FTE.

Supported Devices and Features

This software package contains the following firmware versions:

Mellanox InfiniBand Adapter	Firmware Version	PSID
HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 MCX653106A-HDAT Adapter(P31324-B21 and P31324-H21)	20.41.1000	MT_0000000594

Mellanox Firmware Package (FWPKG) for Mellanox MCX623106AS-CDAT Ethernet 100Gb 2-port QSFP56 Adapter for HPE

Version: 22.41.1000 (Recommended)

Important Note!

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Prerequisites

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

Fixes

- GTP length field was automatically modified at the TX side when an incorrect or invalid length was detected.

The following issues have been fixed in version 22.41.1000:

- Switch port would go down due to MC packets mirrored back to the switch when in promiscuous mode.
- Traffic failure occurred when modifying the VIRTIO_NET_F_MRG_RXBUF bit for the VDPA device during traffic.
- The second mkey index returned even if it was not set in the creation of the virtio q when querying virtio q object.
- Traffic loss occurred after performing Live Migration with virtio vq "frozen-ready" feature.

Note: When the traffic load is high, and the vq frozen-ready cap is on, traffic loss might still be experienced after modifying the vq from suspend to ready mode.

Enhancements

Security Hardening Enhancements:

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

New features and changes included in version 22.41.1000:

- The new unified_fdb subdomain simplifies the FDB model by eliminating the need to duplicate rules for RX and TX tables. This domain is directionless, meaning no RX/TX specific actions are allowed. Firmware now handles packet transitions IN and OUT of the unified domain, allowing for a more streamlined packet flow management. Software can now transition between unified_fdb and FDB_RX/FDB_TX domains as long as the packet maintains the same direction, without the risk of dropping the packet when crossing between RX and TX.
- Implemented Deterministic Random Bit Generator (DRBG) algorithm on top of firmware TRNG (the source for raw data input) in accordance with NIST SP800-90A.

- Added support for vDPA virtual queue state change from suspend to ready, and discrete mkey for descriptor. vDPA Live Migration uses these two new capabilities to reduce downtime since vq can go back to ready state for traffic and descriptor-only-mkey can help reduce mkey mapping time.
- Added the ability to generate up to 2^30 STE objects through the general object creation command.
- Added a new NVConfig option to copy AR bit from the BTH header to the DHCP header.
- Added the option to provide field's offset and length in Steering add_action option.
- Added support for steering match on packet l4_type through FTG/FTE.
- Extended Flex Parser merge mechanism to support hardware capabilities.
- Enabled the option to disable the native parser when the parse graph node is configured with the same conditions.
- Added support for father/son headers parsing.
- Added support for tunnel_offload in LRO.

Supported Devices and Features

HPE Part Number	Mellanox Ethernet Only Adapters	PSID
P25960-B21	Mellanox MCX623106AS-CDAT Ethernet 100Gb 2-port QSFP56 Adapter for HPE	MT_0000000437

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR 1-port OSFP PCIe5 x16 MCX75310AAS-NEAT

Adapter : HPE part numbers P45641-B21 and P45641-H21

Version: 28.41.1000 (Recommended)

Important Note!

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Fixes

- Congestion Control malfunctioned due to an invalid database.
- The following issues have been fixed in version 28.41.1000:
- PLDM command Get Schema URI failed to function properly when there were no base RDE resource IDs.
 - RDE Port resource failed to show 400Gb speed in CapableLinkSpeedGbps and in MaxSpeedGbps in some InfiniBand cards.
 - Fixed a performance issue by enabling CC to allow queues to receive fair bandwidth.
 - VF FLR would get stuck when its PF triggered the FLR as well.

Enhancements

- Added the TX_SCHEDULER_FWS_REACTIVITY nvconfig flag to solved an mlnx_qos ETS settings issue.

New features and changes included in version 28.41.1000:

- Improved ZTR_RTTCC algorithm fairness when running with 4K MTU.
- Changed BER monitor default values to alarm on symbol and effective BER.
- Added support for the following prefetch fields on ODP event:
- Implemented Deterministic Random Bit Generator (DRBG) algorithm on top of firmware TRNG (the source for raw data input) in accordance with NIST SP800-90A.

pre_demand_fault_pages, post_demand_fault_pages.

- Added support for PSP in Hardware Steering.
- Added a new NVConfig option to copy AR bit from the BTH header to the DHCP header.
- Added the option to provide field's offset and length in Steering add_action option.
- Added support for steering match on packet l4_type through FTG/FTE.
- Added support for setting, adding or copying the flow_label fields from the packet.
- Added support for 64KB pages.

Note: Configuring BAR_PAGE_ALIGNMENT to ALIGN_64KB(2) while one of the following is configured will cause the device to ignore the BAR_PAGE_ALIGNMENT configuration:

- PF_NUM_PF_MSIX>256 on any of the Physical Functions
- VIRTIO_EMULATION_HOTPLUG_TRANS/
VIRTIO_NET_EMULATION_PF_PCI_LAYOUT/ VIRTIO_NET_EMULATION_VF_PCI_LAYOUT/
VIRTIO_BLK_EMULATION_PF_PCI_LAYOUT/VIRTIO_BLK_EMULATION_PF_PCI_LAYOUT=VIRTIO_TRANSITIO
NAL(1)
- Extended Flex Parser merge mechanism to support hardware capabilities.
- Enabled the option to disable the native parser when the parse graph node is configured with the same conditions.
- Added support for father/son headers parsing.
- Added support for tunnel_offload in LRO.

Online NVMe SSD Flash Component for Linux (x64) - EO000400KYDKV and EO000800KYDLA Drives

Version: HPK4 (D) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Fixes

- Fixed flashing issue through SDR method

Online NVMe SSD Flash Component for Linux (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives

Version: HPK5 (C) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fixed flashing issue through SDR method

Online NVMe SSD Flash Component for VMware ESXi - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives

Version: HPK5 (B) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix known FW bug PI/CI indexing issue

Online NVMe SSD Flash Component for VMware ESXi - EO000400KYDKV and EO000800KYDLA Drives

Version: HPK4 (C) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online NVMe SSD Flash Component for Windows (x64) - EO000400KYDKV and EO000800KYDLA Drives

Version: HPK4 (C) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online NVMe SSD Flash Component for Windows (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives

Version: HPK5 (B) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like

(B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Universal Firmware Package for Drives - MO000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP

Version: HPK1 (Recommended)

Fixes

- Changes and improvements made in HPK1 are to enhance receiver signals by changing the drive's internal PHY register values on Gen11 x2 direct attached system.

Universal Firmware Package for Drives - MO001600KZYWU, MO003200KZYXB, MO006400KZYXC, VO001920KZYWT, VO003840KZYWV and VO007680KZYXA

Version: HPK5 (Recommended)

Fixes

- This firmware provides bug fixes for the P5620/P5520.

Universal Firmware Package for Drives - VK000960KYDPT, VK001920KYDPU, VK003840KYDPV and VK007680KYDQA

Version: HPK4 (Recommended)

Important Note!

If drive FW needs to downgrade from HPK4 to HPK3, a reset/POR is required.

Fixes

- Firmware maintenance release on HPK4.
- Please note this version of FW has applied UUID change from little endian to big endian per Datacenter NVMe SSD Spec. System application should be updated accordingly per this UUID change.
- If drive FW needs to downgrade from HPK4 to HPK3, a reset/POR is required.

Universal Firmware Package for Drives - VR000480KXLXF

Version: HPK3 (Recommended)

Fixes

Firmware maintenance release of HPK3

- Please note this version of FW has applied UUID change from little endian to big endian per Datacenter NVMe SSD Spec. System application should be updated accordingly per this UUID change.
- If drive FW needs to downgrade from HPK3 to HPK2, a reset/POR is required.
- SSID will change from a801 to 03b5 after FW update to HPK3.

Universal Firmware Package for Drives - VV003840KXNTH, VV007680KXNTN and VV015360KXNTP

Version: HPK6 (Recommended)

Fixes

- Firmware maintenance release.

Universal Firmware Package for Drives - VV003840KXWBF, VV007680KXWBL and VV015360KXWBN

Version: HPK2 (Recommended)

Fixes

- This is a recommended FW release that provides bug fixes for the HPK2

Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ

Version: HPK2 (Recommended)

Fixes

- This is a maintenance release that contains code improvements for CAP.TO and LED behavior.

Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ

Version: HPK2 (Recommended)

Important Note!

HPK2 FW adding 15.36T HPE model number and not allowing user to flash back (flash downgrade) to prevent the issue on 15.36T drive.

Fixes

- This version of FW now supports the 15.36TB model and FW fixes of drive time-out/failures.

Universal Firmware Package for Drives - MV003200LXUJK, MV006400LXUJL, VV003840LXUJE, VV007680LXUJF and VV015360LXUJH

Version: HPK5 (Recommended)

Fixes

- Add 12W, 16W and 18W as supporting power mode.

Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB

Version: HPS3 (Recommended)

Fixes

- Improvements to our out-of-band message handling to ensure robust device management capabilities

- Changes to improve our PCIe link compatibility as well as device reliability
- This firmware update is recommended as it improves our system interoperability and prevents specific scenarios that could cause the drive to become unresponsive.

Universal Firmware Package for Drives - VV001920LYDTT, VV003840LYDTU and VV007680LYDTV

Version: HPK6 (Recommended)

Fixes

To eliminate the risk of gen drop issue.

Online ROM Flash for Linux - Advanced Power Capping Microcontroller Firmware

Version: 1.0.4 (B) (Recommended)

Enhancements

Version 1.0.4 firmware

Online ROM Flash for Linux - Advanced Power Capping Microcontroller Firmware II for HPE Gen11 Servers

Version: 1.2.2 (C) (Recommended)

Important Note!

Deliverable Name:Release Version:Last Recommended or Critical Revision:Previous Revision:Firmware

Dependencies:None

Enhancements/New Features:

Known Issues:None

Prerequisites

Gen11 servers with Power-PIC solution (HPE Proliant DL145 and DL20).

Enhancements

Firmware Dependencies:None

Enhancements/New Features:

Known Issues:None

Online ROM Flash for Windows x64 - Advanced Power Capping Microcontroller Firmware

Version: 1.0.4 (B) (Recommended)

Enhancements

Version 1.0.4 firmware

Online ROM Flash for Windows x64 - Advanced Power Capping Microcontroller Firmware II for HPE Gen11 Servers

Version: 1.2.2 (B) (Recommended)

Important Note!

Deliverable Name:Release Version:Last Recommended or Critical Revision:Previous Revision:Firmware
Dependencies:None

Enhancements/New Features:

Known Issues:None

Prerequisites

Gen11 servers with Power-PIC solution (HPE Proliant DL145 and DL20).

Enhancements

Firmware Dependencies:None

Enhancements/New Features:

Known Issues:None

ROM Flash Firmware Package - Advanced Power Capping Microcontroller Firmware

Version: 1.0.4 (Recommended)

Enhancements

Version 1.0.4 firmware

ROM Flash Firmware Package - Advanced Power Capping Microcontroller Firmware II for HPE Gen11 Servers

Version: 1.2.2 (B) (Recommended)

Important Note!

Important Notes:Deliverable Name:Release Version:Last Recommended or Critical Revision:Previous
Revision:Firmware Dependencies:None

Enhancements/New Features:

Known Issues:None

Prerequisites

Gen11 servers with Power-PIC solution (HPE Proliant DL145 and DL20).

Enhancements

Important Notes:Firmware Dependencies:None

Enhancements/New Features:

Known Issues:None

**Online HDD/SSD Flash Component for Linux (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV,
EG001200JXLWA and EG001200MXJQU Drives**

Version: HPD8 (C) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives

Version: HPDA (D) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - MB002000JWFVN and MB004000JWFVP Drives

Version: HPD4 (H) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - MB018000JXMTH and MB020000JXMTP Drives

Version: HPD2 (B) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - MM1000JEFRB and MM2000JEFRB Drives

Version: HPDA (D) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives

Version: HPD4 (Recommended)

Fixes

- Maintenance firmware release to introduce fixes from previous firmware.

Online HDD/SSD Flash Component for Linux (x64) - MB002000JYDNE and MB004000JYDPB Drives

Version: HPD2 (E) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - MB004000JWWQB and MB002000JWWQA Drives

Version: HPD8 (E) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - MB006000JYDNF and MB008000JYDPC Drives

Version: HPD2 (E) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - MB008000JWWQP and MB006000JWWQN Drives

Version: HPD8 (E) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives

Version: HPD4 (D) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives

Version: HPD3 (B) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK Drives

Version: HPD4 (B) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - MB014000JXUCC Drive

Version: HPD4 (C) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fixed flashing issue through SDR method
-

Online HDD/SSD Flash Component for Linux (x64) - MB016000JWXKH Drive

Version: HPDA (C) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fixed flashing issue through SDR method
-

Online HDD/SSD Flash Component for Linux (x64) - MB016000JXLBA and MB018000JXLAU Drives

Version: HPD3 (C) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fixed flashing issue through SDR method
-

Online HDD/SSD Flash Component for Linux (x64) - MM1000JFJTH Drive

Version: HPD5 (D) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fixed flashing issue through SDR method
-

Online HDD/SSD Flash Component for Linux (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives

Version: HPD8 (B) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for VMware ESXi - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives

Version: HPD8 (B) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives

Version: HPDA (C) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives

Version: HPD4 (Recommended)

Fixes

- Maintenance firmware release to introduce fixes from previous firmware.
- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - MB002000JWFVN and MB004000JWFVP Drives

Version: HPD4 (F) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - MB002000JYDNE and MB004000JYDPB Drives

Version: HPD2 (E) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - MB006000JYDNF and MB008000JYDPC Drives

Version: HPD2 (E) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives

Version: HPD4 (B) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives

Version: HPD3 (B) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - MB018000JXMTH and MB020000JXMTP Drives

Version: HPD2 (B) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - MM1000JEFRB and MM2000JEFRC Drives

Version: HPDA (D) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - MM1000JFJTH Drive

Version: HPD5 (D) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - MB004000JWWQB and MB002000JWWQA Drives

Version: HPD8 (B) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - MB008000JWWQP and MB006000JWWQN Drives

Version: HPD8 (B) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK Drives

Version: HPD4 (B) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - MB014000JXUCC Drive

Version: HPD4 (B) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - MB016000JWXKH Drive

Version: HPDA (B) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - MB016000JXLBA and MB018000JXLAU Drives

Version: HPD3 (B) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives

Version: HPD8 (B) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives

Version: HPD8 (B) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives

Version: HPDA (C) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives

Version: HPD4 (Recommended)

Fixes

- Maintenance firmware release to introduce fixes from previous firmware.
- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MB002000JWFVN and MB004000JWFVP Drives

Version: HPD4 (F) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MB002000JYDNE and MB004000JYDPB Drives

Version: HPD2 (E) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MB004000JWWQB and MB002000JWWQA Drives

Version: HPD8 (C) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MB006000JYDNF and MB008000JYDPC Drives

Version: HPD2 (E) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MB008000JWWQP and MB006000JWWQN Drives

Version: HPD8 (C) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives

Version: HPD4 (C) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives

Version: HPD3 (B) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MB012000JZYVN, MB014000JZYVP, MB016000JZVQ and MB018000JYCLK Drives

Version: HPD4 (B) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MB014000JXUCC Drive

Version: HPD4 (B) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MB016000JWXKH Drive

Version: HPDA (B) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MB016000JXLBA and MB018000JXLAU Drives

Version: HPD3 (B) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MB018000JXMTH and MB020000JXMTP Drives

Version: HPD2 (B) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MM1000JEFRB and MM2000JEFRC Drives

Version: HPDA (D) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MM1000JFJTH Drive

Version: HPD5 (D) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives

Version: HPD8 (B) (Recommended)

Important Note!

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Universal Firmware Package for Drives - MB020000JXMVU

Version: HPD1 (Recommended)

Fixes

- An error was found in the queue fullhandling process that results in the FUA bit not getting properly set, which could lead to the drive self-initiated reset
- The FW fix is to resolve the handling of FUA bit during the queue full handling process has been implemented
- The FW was confirmed to resolve the issue of drives resetting under queue full handling situations.

Universal Firmware Package for Drives - MB12000JYESN, MB16000JYEVC, MB20000JYEVD

Version: HPD1 (Recommended)

Fixes

- Improve random read/write performance.

Universal Firmware Package for Drives - MB24000JYEVE

Version: HPD1 (Recommended)

Fixes

- Improve random read/write performance.

Universal Firmware Package for Drives - MO000960RXKRC, MO001920RXKRH, MO003840RXKRK, VO000960RXKRB, VO001920RXKRD and VO003840RXKRE

Version: HPD5 (Recommended)

Fixes

- This firmware version fixes a bug with the unmap command that may cause a drive hang

Universal Firmware Package for Drives - MO000960RXRQK, MO001920RXRRH, MO003840RXRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD

Version: HPD4 (Critical)

Fixes

- To fix - Frequent insertion of low priority commands during IO execution may lead to drive offline randomly.

For more information, refer to HPE Customer Advisory at the following URL:

https://support.hpe.com/hpesc/public/docDisplay?docId=a00141941en_us

Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU

Version: HPD2 (Recommended)

Fixes

- For commands that have reported errors to the host, FW has been changed so that new commands are registered after FW performs Abort process for the corresponding command in the command management table.

Universal Firmware Package for Drives - MO001600PZWSH, MO003200PZWSK, MO000800PZWSE and MO006400PZXFA

Version: HPD3 (Critical)

Fixes

- It has fix code for V6 read disturb and other issues.
- For more information, refer to HPE Customer Bulletin at the following URL:
https://support.hpe.com/hpesc/public/docDisplay?docId=a00136659en_us

Universal Firmware Package for Drives - VO000960PZWSL, VO001920PZWSN, VO003840PZWSP, VO007680PZXFB and VO015360PZXEU

Version: HPD3 (Critical)

Fixes

- It has fix code for V6 Read disturb issue and other issue.
- For more information, refer to HPE Customer Bulletin at the following URL:
https://support.hpe.com/hpesc/public/docDisplay?docId=a00136659en_us

Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU

Version: HPD1 (Recommended)

Fixes

- This fix is for unrecovered errors may occur on the targeted Blocks of Wear-leveling process when host issues Read command.

Online HDD/SSD Flash Component for Linux (x64) - MB018000GXMTK and MB020000GXMTQ Drives

Version: HPG2 (B) (Recommended)

Important Note!

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

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - MB001000GWFWK and MB002000GWFWL Drives

Version: HPG6 (K) (Recommended)

Important Note!

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

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives

Version: HPG1 (L) (Recommended)

Important Note!

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

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - MB004000GWKGV Drive

Version: HPG1 (K) (Recommended)

Important Note!

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

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - MB006000GWKGR Drive

Version: HPG1 (K) (Recommended)

Important Note!

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

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives

Version: HPG2 (B) (Recommended)

Important Note!

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

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - MB012000GWDFE Drive

Version: HPG5 (B) (Recommended)

Important Note!

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

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - MB012000GWTFE and MB014000GWTFE Drives

Version: HPG8 (D) (Recommended)

Important Note!

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

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - MB012000GZYVT, MB014000GZVU, MB016000GZVV and MB018000GYCLL Drives

Version: HPG4 (B) (Recommended)

Important Note!

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

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - MB016000GWXKK Drive

Version: HPG4 (C) (Recommended)

Important Note!

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

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives

Version: HPG3 (I) (Recommended)

Important Note!

- Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.
- Online drive firmware update available for Smart Array Controllers configured in systems running

supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives

Version: HPG3 (C) (Recommended)

Important Note!

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

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV Drives

Version: HPG1 (C) (Recommended)

Important Note!

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

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - MM1000GFJTE Drive

Version: HPG6 (D) (Recommended)

Important Note!

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

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - MM2000GEFRA Drive

Version: HPG9 (D) (Recommended)

Important Note!

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

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives

Version: HPG4 (I) (Recommended)

Important Note!

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

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GW TTC, VK003840GWTTD, MK000480GWTT H, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives

Version: HPG7 (C) (Recommended)

Important Note!

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

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - VK000240GXAW E, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives

Version: HPG1 (H) (Recommended)

Important Note!

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

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives

Version: HPG1 (C) (Recommended)

Important Note!

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

offline update using the Service Pack for ProLiant and Smart Update Manager.

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for Linux (x64) - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives

Version: HPG3 (C) (Recommended)

Important Note!

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

Fixes

- Fixed flashing issue through SDR method

Online HDD/SSD Flash Component for VMware ESXi - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives

Version: HPG2 (B) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - MB018000GXMTK and MB020000GXMTQ Drives

Version: HPG2 (B) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - MB001000GWFWK and MB002000GWFWL Drives

Version: HPG6 (J) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives

Version: HPG1 (J) (Recommended)

Important Note!

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

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - MB004000GWKGV Drive

Version: HPG1 (J) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - MB006000GWKGR Drive

Version: HPG1 (J) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - MB012000GWDFE Drive

Version: HPG5 (B) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - MB012000GWTFE and MB014000GWTFE Drives

Version: HPG8 (B) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - MB012000GZVYT, MB014000GZVU, MB016000GZVV and MB018000GYCLL Drives

Version: HPG4 (B) (Recommended)

Important Note!

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

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - MB016000GWXKK Drive

Version: HPG4 (B) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives

Version: HPG3 (G) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives

Version: HPG3 (B) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV Drives.

Version: HPG1 (B) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - MM1000GFJTE Drive

Version: HPG6 (D) (Recommended)

Important Note!

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

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - MM2000GEFRA Drive

Version: HPG9 (D) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU, VK003840GWSRV Drives

Version: HPG4 (G) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTN Drives

Version: HPG7 (C) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives

Version: HPG1 (F) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives.

Version: HPG1 (B) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for VMware ESXi - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives

Version: HPG3 (B) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MB001000GWFWK and MB002000GWFWL Drives

Version: HPG6 (I) (Recommended)

Important Note!

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

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives

Version: HPG1 (I) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MB004000GWKGV Drive

Version: HPG1 (I) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MB006000GWKGR Drive

Version: HPG1 (I) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives

Version: HPG2 (B) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MB012000GWDFE Drive

Version: HPG5 (B) (Recommended)

Important Note!

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

- Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MB012000GWTFE and MB014000GWTFE Drives

Version: HPG8 (C) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives

Version: HPG4 (B) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MB016000GWXKK Drive

Version: HPG4 (B) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MB018000GXMTK and MB020000GXMTQ Drives

Version: HPG2 (B) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives

Version: HPG3 (G) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives

Version: HPG3 (B) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV Drives

Version: HPG1 (B) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MM1000GFJTE Drive

Version: HPG6 (C) (Recommended)

Important Note!

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

supported for these configurations.

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - MM2000GEFRA Drive

Version: HPG9 (C) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives

Version: HPG4 (G) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTTH, MK000960GWTTK, MK001920GWTTTL and MK003840GWTTN Drives

Version: HPG7 (C) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives

Version: HPG1 (B) (Recommended)

Important Note!

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

Fixes

- Fix the controller library compatible issue.

Online HDD/SSD Flash Component for Windows (x64) - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives

Version: HPG3 (B) (Recommended)

Important Note!

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

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

Fixes

- Fix the controller library compatible issue.

Universal Firmware Package for Drives - MB002000GYDNK and MB004000GYDPD

Version: HPG1 (Recommended)

Fixes

Optimize thermal maximum continuous operation temperature values.

Universal Firmware Package for Drives - MB006000GWZVL and MB008000GWZVN

Version: HPG1 (Critical)

Fixes

- This maintenance revision improves data integrity. The risk of not upgrading to this firmware is the increased possibility of data corruption in certain error and timing conditions.
- For more information, refer to HPE Customer Advisory at the following URL:
https://support.hpe.com/hpesc/public/docDisplay?docId=a00138902en_us which will be active on 24-April-2024.

Universal Firmware Package for Drives - MB006000GYDNL, MB008000GYDPE and MB010000GYDNN

Version: HPG1 (Recommended)

Fixes

Update maximum continuous operation temperature values for host thermal management and reporting.

Universal Firmware Package for Drives -

MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYC NH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GXPQT and VR000480GXPQU

Version: HPG3 (Recommended)

Fixes

- HPG3 is a planned maintenance release covering bug fixes for 2.5" and M.2. There are no critical functional updates, and risk is low for customers who do not upgrade, especially if drives are not stored without power for a long period of time (~2 years).

Controller Firmware Flash for ESXi7.0 and 8.0 - HPE MR216i-o Gen11 Tri Mode Controller

Version: 52.26.3.5487 (Recommended)

Fixes

- Fix an issue that PLDM firmware update may fail. The issue may happen on controller, backplane and drive attached to controller.

Controller Firmware Flash for ESXi7.0 and 8.0 - HPE MR216i-p Gen11 Tri Mode Controller

Version: 52.26.3.5487 (Recommended)

Fixes

- Fix an issue that PLDM firmware update may fail. The issue may happen on controller, backplane and drive attached to controller.

Controller Firmware Flash for ESXi7.0 and 8.0 - HPE MR408i-o Gen11 Tri Mode Controller

Version: 52.26.3.5487 (Recommended)

Fixes

- Fix an issue that PLDM firmware update may fail. The issue may happen on controller, backplane and drive attached to controller.

Controller Firmware Flash for ESXi7.0 and 8.0 - HPE MR416i-o Gen11 Tri Mode Controller

Version: 52.26.3.5487 (Recommended)

Fixes

- Fix an issue that PLDM firmware update may fail. The issue may happen on controller, backplane and drive attached to controller.

Controller Firmware Flash for ESXi7.0 and 8.0 - HPE MR416i-p Gen11 Tri Mode Controller

Version: 52.26.3.5487 (Recommended)

Fixes

- Fix an issue that PLDM firmware update may fail. The issue may happen on controller, backplane and drive attached to controller.

Firmware Package - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P204i-c, P416ie-m and P816i-a SR Gen10 and SR308i-o,SR308i-p Gen11 controllers

Version: 7.11 (Recommended)

Fixes

- Fixed an issue where the host experienced BSOD while clearing the controller configuration.
- Fixed controller lockups caused by incorrect address reads and partial RAM initialization for PCIe functions, leading to ECC errors.

- Fixed issues with external storage.
- Fixed issues with the SATA drive.
- Fixed issues with the SED drive.
- Fixed issues with the spare drive.
- Corrected MCTP-related issues.
- Fixed surface scan issues on the RAID 50.
- Fixed issues encountered during heavy I/O operations.
- Fixed volume issues on the failed drive.
- Fixed issues for incorrect Severity reported in Redfish events.
- Fixed issues for incorrect Status reported in Redfish resources.
- Fixed an issue with improper capacity information in Redfish drive Name.
- Fixed an issue where Redfish long running task status is not reported.
- Fixed an issue where DurableNameFormat for RAID volumes are reported as UUID in RDE READ operations, but should be NAA.
- Fixed an issue where failed to take ownership of, or to revert, a SED through Redfish.
- Fixed an issue when a drive hosting a RAID 0 Volume is removed and reinserted, a VolumeOK event is not generated.
- Fixed an issue where ILORest return "AccelerationMethod" as "ControllerCache" instead of "none" when controller cache is not enable or preset."

Enhancements

- Added support for saving Managed SED master key and reset key in cipher text in controller NVRAM instead of clear text.
- Changed temperature polling period from 1 minute to 5 minutes for HBA mode drives that are in low power state.
- Added support for clearing UREs in unmapped LBA range of fault tolerant logical drives.
- Improved random write and mixed read-write performance.
- Added support for SED encryption configuration through Redfish interface.
- Added support of Redfish Chassis implementation for UBM Backplanes.
- Added Redfish ACTION:
 - Storage.SetEncryptionKey
- Added support for Redfish property PATCH:
 - Storage.EncryptionMode
 - Storage.HotspareActivationPolicy
 - Drive.HostspareReplacementMode
 - Drive.HostspareType
 - Volume.Encrypted
- Added support for Redfish Status.Conditions property to resources:
 - Drive
 - Port
 - StorageController

- StorageController.CacheSummary
- Volume
- Added support for Redfish properties:
- Drive.DriveFormFactor
- Drive.FirmwareVersion
- Drive.Manufacture (SAS only)
- Drive.SlotCapableProtocols
- StorageController.AssetId
- StorageController.Links.PCIFunction
- Volume.BlockSizeBytes
- Volume.LogicalUnitNumber
- Added support for PLDM Type5 UBM PIC firmware flashing behind expander.

Firmware Package - HPE Gen11 Boot Controller NS204i-u, NS204i-d and HPE Gen10 Plus Boot Controller NS204i-p, NS204i-d, NS204i-t, NS204i-r

Version: 1.2.14.1013 (Recommended)

Important Note!

- Windows: <https://www.hpe.com/global/swpublishing/MTX-be195b2891724ec8bb72c8bb2>
Current firmware has to be 1.0.14.1063 or later in order to enable PLDM firmware update functionality for the controller. Please find the smart component versions of 1.0.14.1063 in below link:
- Linux: <https://www.hpe.com/global/swpublishing/MTX-269e14d0e2524277bf699f433>
- Vmware: <https://www.hpe.com/global/swpublishing/MTX-1ffaca997cf248cd9f832a04c6>

Prerequisites

- iLO 6 version 1.10 or later is required for Gen11 servers.
- iLO 5 version 2.81 or later is required for Gen10/Gen10 Plus servers

Fixes

- Fixed an issue that iLO reports NS204i PLDM firmware update failure, but the firmware update is actually successful and will be activated in next reboot
- Fixed an issue that the M.2 attached are listed in iLO Device Inventory
- Corrected the drive state of performing Storage.ResetToDefaults with ResetAll type
- Allowed empty JSON payload for SecureErase and corrected the returned status when the previous one is either in process or completed.

Enhancements

- Add @Redfish.AllowableValues, @Redfish.AllowablePattern, @Redfish.AllowableNumbers and @Redfish.WritableProperties for Redfish Annotations
- Add StorageController.Links, Drive.SlotCapableProtocols and Storage.AutoVolumeCreate for Redfish GET
- Add StorageController.ControllerRates and Volume.DisplayName for Redfish PATCH

Firmware Package - HPE MR216i-o Gen11 Tri Mode Controller

Version: 52.26.3-5487 (Recommended)

Important Note!

- This firmware version to be used on HPE MR216i-o Gen11 Controller.

Prerequisites

iLO6 version should be at least 1.53 is required for chassis&Fabric support.

Fixes

- Fix an issue that PLDM firmware update may fail. The issue may happen on controller, backplane and drive attached to controller.

Firmware Package - HPE MR216i-p Gen11 Tri Mode Controller

Version: 52.26.3-5487 (Recommended)

Important Note!

- This firmware version to be used on HPE MR216i-p Gen11 Controller.

Prerequisites

iLO6 version should be at least 1.53 is required for chassis&Fabric support.

Fixes

- Fix an issue that PLDM firmware update may fail. The issue may happen on controller, backplane and drive attached to controller.

Firmware Package - HPE MR408i-o Gen11 Tri Mode Controller

Version: 52.26.3-5487 (Recommended)

Important Note!

- This firmware version to be used on HPE MR408i-o Gen11 Controller.

Prerequisites

iLO6 version should be at least 1.53 is required for chassis&Fabric support.

Fixes

- Fix an issue that PLDM firmware update may fail. The issue may happen on controller, backplane and drive attached to controller.

Firmware Package - HPE MR416i-o Gen11 Tri Mode Controller

Version: 52.26.3-5487 (Recommended)

Important Note!

- This firmware version to be used on HPE MR416i-o Gen11 Controller.

Prerequisites

iLO6 version should be at least 1.53 is required for chassis&Fabric support.

Fixes

- Fix an issue that PLDM firmware update may fail. The issue may happen on controller, backplane and drive attached to controller.

Firmware Package - HPE MR416i-p Gen11 Tri Mode Controller

Version: 52.26.3-5487 (Recommended)

Important Note!

- This firmware version to be used on HPE MR416i-p Gen11 Controller.

Prerequisites

iLO6 version should be at least 1.53 is required for chassis&Fabric support.

Fixes

- Fix an issue that PLDM firmware update may fail. The issue may happen on controller, backplane and drive attached to controller.

Firmware Package - HPE SR932i-p Gen10 Plus /SR416i-a Gen10 Plus/SR932i-p Gen11/SR416ie-m Gen11 Controllers

Version: 03.01.30.106 (Recommended)

Fixes

- Fixed an issue where the host experienced BSOD while clearing the controller configuration.
- Fixed controller lockups caused by incorrect address reads and partial RAM initialization for PCIe functions, leading to ECC errors.
- Fixed an issue where a possible controller lockup was observed after a factory reset.
- Fixed issues with external storage.
- Fixed issues with the SATA drive.
- Fixed issues with the SED drive.
- Fixed issues with the spare drive.
- Corrected MCTP-related issues.
- Fixed SPDM-related issues.
- Fixed issues related to volume creation and rebuilding.
- Fixed volume issues on the failed drive.
- Fixed surface scan issues on the RAID 50.
- Fixed issues encountered during heavy I/O operations.
- Fixed issues for incorrect Severity reported in Redfish events.
- Fixed issues for incorrect Status reported in Redfish resources.
- Fixed an issue with improper capacity information in Redfish drive Name.
- Fixed an issue where Redfish long running task status is not reported.

- Fixed an issue where DurableNameFormat for RAID volumes are reported as UUID in RDE READ operations, but should be NAA.
- Fixed an issue where failed to take ownership of, or to revert, a SED through Redfish.
- Fixed an issue when a drive hosting a RAID 0 Volume is removed and reinserted, a VolumeOK event is not generated.

Enhancements

- Added support for saving Managed SED master key and reset key in cipher text in controller NVRAM instead of clear text.
- Changed temperature polling period from 1 minute to 5 minutes for HBA mode drives that are in low power state.
- Added support for clearing UREs in unmapped LBA range of fault tolerant logical drives.
- Improved RAID 1/10 write sequential performance.
- Added support for SED encryption configuration through Redfish interface.
- Added support of Redfish Chassis implementation for UBM Backplanes.
- Added Redfish ACTION:
 - Storage.SetEncryptionKey
- Added support for Redfish property PATCH:
 - Storage.EncryptionMode
 - Storage.HotspareActivationPolicy
 - Drive.HostspareReplacementMode
 - Drive.HotspareType
 - Volume.Encrypted
- Added support for Redfish Status.Conditions property to resources:
 - Drive
 - Port
 - StorageController
 - StorageController.CacheSummary
 - Volume
- Added support for Redfish properties:
 - Drive.DriveFormFactor
 - Drive.FirmwareVersion
 - Drive.Manufacture (SAS only)
 - Drive.SlotCapableProtocols
 - StorageController.AssetId
 - StorageController.Links.PCIeFunction
 - Volume.BlockSizeBytes
 - Volume.LogicalUnitNumber
- Added support for PLDM Type5 UBM PIC firmware flashing behind expander.

HPE Firmware Flash for Emulex 32Gb and 64Gb Fibre Channel Host Bus Adapters

Version: 14.4.329.10 (Recommended)

Important Note!

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.4.329.10	14.4.329.10	14.4.329.9	14.4.290.0
HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.4.329.10	14.4.329.10	14.4.329.9	14.4.290.0
HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.4.329.10	14.4.329.10	14.4.329.9	14.4.290.0
HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.4.329.10	14.4.329.10	14.4.329.9	14.4.290.0

Prerequisites

The minimum version for adapter to support PLDM is 14.0.499.25

Enhancements

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.4.329.10	14.4.329.10	14.4.329.9	14.4.290.0
HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.4.329.10	14.4.329.10	14.4.329.9	14.4.290.0
HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.4.329.10	14.4.329.10	14.4.329.9	14.4.290.0
HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.4.329.10	14.4.329.10	14.4.329.9	14.4.290.0

Supported Devices and Features

- HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700E 64Gb Dual port Fibre Channel Host Bus Adapter
- HPE SN1700E 64Gb Single port Fibre Channel Host Bus Adapter

HPE Firmware Flash for QLogic 32Gb and 64Gb Fibre Channel Host Bus Adapters

Version: 02.10.00 (Recommended)

Important Note!

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.10.00	09.15.00	7.36	0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.10.00	09.15.00	7.36	0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.10.00	09.15.00	7.36	0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.10.00	09.15.00	7.36	0

Enhancements

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.10.00	09.15.00	7.36	0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.10.00	09.15.00	7.36	0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.10.00	09.15.00	7.36	0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.10.00	09.15.00	7.36	0

Supported Devices and Features

- HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter

Firmware Package - UBM2 Backplane PIC PLDM Firmware for Gen10/Gen10P/Gen11 Servers

Version: 1.20 (E) (Recommended)

Important Note!

Flash FWPKG Component on Web Standalone mode

- PLDM FWPKG component only supports installation of UBM2 firmware when attached to HPE SR416/SR932(Firmware version 3.01.14.062 or later is need) or HPE smart array controllers(Firmware version 5.32 or later is need) or HPE MR216/416/408 controllers(Firmware version 52.22.3-4650 or later is need)
- PLDM FWPKG component can be supported installation of UBM2 firmware when direct attached the the server

Prerequisites

- For Gen11 servers, iLO 6 version 1.10 or later is required.
- For Gen10/Gen10P servers, iLO5 version 2.72 or later is required

Enhancements

- Support both Gen10P and Gen11 servers

Firmware Package - UBM3 Backplane PIC PLDM Firmware for Gen10/Gen10P/Gen11 servers usage

Version: 1.24 (E) (Recommended)

Important Note!

Flash FWPKG Component on Web Standalone mode

- PLDM FWPKG component only supports installation of UBM3 firmware when attached to HPE SR416/SR932(Firmware version 3.01.14.062 or later is need) or HPE smart array controllers(Firmware version 5.32 or later is need) or HPE MR216/416/408 controllers(Firmware version 52.22.3-4650 or later is need)
- PLDM FWPKG component can be supported installation of UBM3 firmware when direct attached the the server

Prerequisites

- iLO 6 version 1.10 or later is required for Gen11 servers.
- iLO 5 version 2.72 or later is required for Gen10/Gen10P servers

Enhancements

- Support new ML110 and DL560 Gen11 servers

Firmware Package - UBM4 Backplane PIC PLDM Firmware for Gen10/Gen10P/Gen11 servers usage

Version: 1.24 (F) (Recommended)

Important Note!

Flash FWPKG Component on Web Standalone mode

- PLDM FWPKG component only supports installation of UBM4 firmware when attached to HPE SR416/SR932(Firmware version 3.01.14.062 or later is need) or HPE MR216/416/408 controllers(Firmware version 52.22.3-4650 or later is need)
- PLDM FWPKG component can be supported installation of UBM4 firmware when direct attached the the server

Prerequisites

- iLO 6 version 1.10 or later is required for Gen11 servers.
- iLO 5 version 2.72 or later is required for Gen10/Gen10P servers

Enhancements

- Support both Gen10P and Gen11 servers

Firmware Package - UBM5 Backplane PIC PLDM Firmware for Gen11/Gen12 servers usage

Version: 1.10 (Recommended)

Important Note!

Flash FWPKG Component on Web Standalone mode

- PLDM FWPKG component only supports installation of UBM5 firmware when attached to HPE SR416/SR932(Firmware version 3.01.14.062 or later is need) on HPE Alletra 4120 Server
- PLDM FWPKG component can be supported installation of UBM5 firmware when direct attached the the server

Prerequisites

- iLO 6 version 1.62 or later is required for Gen12 servers
- iLO 6 version 1.10 or later is required for Gen11 servers

Fixes

Fix FRU issue

Enhancements

- Made aggregated interrupt handler more efficient for 6th I2C bus handler
- eliminated counters in 6th I2C bus
- enabled I2C health monitor

Firmware Package - UBM6 Backplane PIC PLDM Firmware for Gen10/Gen10P/Gen11 servers usage

Version: 1.04 (Recommended)

Important Note!

- PLDM FWPKG component only supports installation of UBM6 firmware when attached to HPE SR416i/SR932 controllers(Firmware version 3.01.09.056 or later is need) or HPE Smart Array controllers (Firmware version 5.32 or later is need) or HPE MR216/416/408 controllers(Firmware version 52.22.3-4650 or later is need)
- PLDM FWPKG component can be supported installation of UBM6 firmware when direct attached the the server

Prerequisites

- For Gen11 servers, iLO 6 version 1.10 or later is required.
- For Gen10/Gen10P servers, iLO5 version 2.72 or later is required

Enhancements

- Support both Gen10P and Gen11 servers

Firmware Package - UBM7 Backplane PIC PLDM Firmware

Version: 1.10 (Recommended)

Important Note!

Flash FWPKG Component on Web Standalone mode

- PLDM FWPKG component can be supported installation of UBM7 firmware when Backplane direct attached the the server
- PLDM FWPKG component has minimum supports installation receipe of UBM7 firmware when attached to HPE SR416/SR932(Controller Firmware version 03.01.23.072 or later is need)

Prerequisites

- For Gen11 servers, iLO 6 version 1.10 or later is required.

Fixes

Fix i2c issues

- DFC idx not updated
- unexpected checksum error

Enhancements

- Refine CMD 40 SES content.

Online ROM Flash Component for Windows x64 - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems

Version: 06.01.04.047.0 (B) (Recommended)

Enhancements

Version 06.01.04.047.0 firmware

Online ROM Flash Component for Windows x64 - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems

Version: 06.01.04.047.0 (B) (Recommended)

Enhancements

Version 06.01.04.047.0 firmware

Online ROM Flash Component for Windows x64 - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems

Version: 06.01.04.047.0 (B) (Recommended)

Enhancements

Version 06.01.04.047.0 firmware

Online ROM Flash Component for Windows x64 - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems

Version: 06.01.04.047.0 (Recommended)

Enhancements

Version 06.01.04.047.0 firmware

Online ROM Flash Component for Windows x64 - Server Platform Services Manageability Engine Firmware for the Intel C262 PCH based systems

Version: 06.02.04.035.0 (Recommended)

Enhancements

Version 06.02.04.035.0 firmware

Online ROM Flash for Linux - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems

Version: 06.01.04.047.0 (B) (Recommended)

Enhancements

Version 06.01.04.047.0 firmware

Online ROM Flash for Linux - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems

Version: 06.01.04.047.0 (B) (Recommended)

Enhancements

Version 06.01.04.047.0 firmware

Online ROM Flash for Linux - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems

Version: 06.01.04.047.0 (Recommended)

Enhancements

Version 06.01.04.047.0 firmware

Online ROM Flash for Linux - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems

Version: 06.01.04.047.0 (C) (Recommended)

Enhancements

Version 06.01.04.047.0 firmware

Online ROM Flash for Linux - Server Platform Services Manageability Engine Firmware for the Intel C262 PCH based systems

Version: 06.02.04.035.0 (B) (Recommended)

Enhancements

Version 06.02.04.035.0 firmware

ROM Flash Firmware Package - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems

Version: 06.01.04.047.0 (Recommended)

Enhancements

Version 06.01.04.047.0 firmware

ROM Flash Firmware Package - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems

Version: 06.01.04.047.0 (Recommended)

Enhancements

Version 06.01.04.047.0 firmware

ROM Flash Firmware Package - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems

Version: 06.01.04.047.0 (Recommended)

Enhancements

Version 06.01.04.047.0 firmware

ROM Flash Firmware Package - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems

Version: 06.01.04.047.0 (Recommended)

Enhancements

Version 06.01.04.047.0 firmware

ROM Flash Firmware Package - Server Platform Services Manageability Engine Firmware for the Intel C262 PCH based systems

Version: 06.02.04.035.0 (Recommended)

Enhancements

Version 06.02.04.035.0 firmware

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

Version: 6.0.0-0 (A) (Optional)

Prerequisites

Customers who manually compile and install openssl or intentionally relocate /usr/bin/openssl, need to

set PATH environment variable to direct HPONCFG to the right/intended openssl.

Fixes

Enabling rpm installation when OS is in FIPS mode

Enhancements

none

HPE Lights-Out Online Configuration Utility for Windows x64 Editions

Version: 6.0.0.0 (Optional)

Important Note!

RIBCL and the scripting tools including HPQLOCFG, HPE Lights-Out XML PERL Scripting Sample for Linux (includes LOCFG.PL), HPE Lights-Out XML Scripting Sample for Windows, HPONCFG for Windows, HPONCFG for Linux, and HPLOMIG have entered the sustenance stage. HPE will now provide only critical bugs and security fixes for RIBCL and the scripting tools. Hewlett Packard Enterprise recommends using the iLOREST Tool (Download Pages and User Guide) or iLO RESTful API

Prerequisites

This utility requires the following minimum firmware revisions:

- Integrated Lights-Out 5 firmware v1.30 or later
- Integrated Lights-Out 6 firmware v1.10 or later

Microsoft .Net Framework 2.0 or later is required to launch HPONCFG GUI.

Enhancements

Introduced support for iLO 6.

HPE Fiber Channel and Storage Enablement Bundle Smart Component for ESXi 7.0

Version: 2024.09.01 (Recommended)

Enhancements

This product carries SBOM signatures.

HPE Fiber Channel and Storage Enablement Bundle Smart Component for ESXi 8.0

Version: 2024.09.01 (Recommended)

Enhancements

This product carries SBOM signatures.

HPE iLO Driver Bundle Smart Component for ESXi 7.0 and ESXi 8.0

Version: 2024.09.00 (Recommended)

Enhancements

Revise the product name to support ESXi 8.0.

Smart Storage Administrator (SSA) CLI Smart Component for ESXi 7.0 for Gen10/Gen10 Plus/Gen11

Controllers

Version: 2024.10.01 (Recommended)

Important Note!

Actual ESXi Version is 6.40.6.0

Fixes

- Fixed an issue where failed drive details were displayed multiple times in the 'show config' output.
- Fixed incorrect error messages displayed in SSACLI when the modify command threw an error if the 'drive' and 'drivetype' parameters coexisted.
- Fixed an issue where the array creation command failed when executed with the drives=all and drivetype=sata_hdd parameters.
- Fixed an issue where the drives behind the enclosures were missing in the SSACLI output.
- Fixed an issue where users encountered a failure when launching the SSASCRIPING tool to restore a RAID configuration with an unsupported parameter for PrebootHealthReporting.

Enhancements

- To improve the output format of the NVMe drive health log for the show command.

Smart Storage Administrator (SSA) CLI Smart Component for ESXi 8.0 for Gen10/Gen10 Plus/Gen11

Controllers

Version: 2024.10.01 (Recommended)

Important Note!

Actual ESXi Version is 6.40.6.0

Fixes

- Fixed an issue on VMware ESXi 8.0 U2 where not all controllers were shown via esxcli.
- Fixed an issue on VMware ESXi 8.0 U2 where the create and delete config, as well as other modify operations, were not working.
- Fixed an issue where failed drive details were displayed multiple times in the 'show config' output.
- Fixed incorrect error messages displayed in SSACLI when the modify command threw an error if the 'drive' and 'drivetype' parameters coexisted.
- Fixed an issue where the array creation command failed when executed with the drives=all and drivetype=sata_hdd parameters.
- Fixed an issue where the drives behind the enclosures were missing in the SSACLI output.
- Fixed an issue where users encountered a failure when launching the SSASCRIPING tool to restore a RAID configuration with an unsupported parameter for PrebootHealthReporting.

Enhancements

- To improve the output format of the NVMe drive health log for the show command.

HPE MegaRAID Storage Administrator StorCLI for VMware7.0 (For Gen10P and Gen11 Controllers)

Version: 2023.12.01 (Recommended)

Enhancements

- Support autoconfig command.
storcli /cx set autoconfig = < none | JBOD >
- Added a new option [ReuseTargetId] to add vd command. If "ReuseTargetId" is mentioned in the add vd command, the FW will allow reusing of TargetIDs without 120 seconds delay.
- Added support for UBM7 backplanes.
- Support new HPE ProLiant DL145 Gen11 server.

HPE MegaRAID Storage Administrator StorCLI for VMware8.0 (For Gen10P and Gen11 Controllers)

Version: 2024.06.01 (Recommended)

Fixes

Fix an issue that VMware 8.0 command throws storcli pluggin error.

Enhancements

- Support new HPE ProLiant DL145 Gen11 server.

HPE QLogic Fibre Channel driver component for VMware vSphere 7.0

Version: 2024.09.01 (Recommended)

Important Note!

Release Notes: 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 vibstdepot.hpe.com webpages, plus an HPE specific CPXXXX.xml file. This Driver is supported on VMware 7.0U3 only

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link: <http://www.hpe.com/storage/spock/>

Enhancements

Driver version 5.3.83.1 This Driver is supported on VMware 7.0U3 only

Supported Devices and Features

- HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter

HPE QLogic Fibre Channel driver component for VMware vSphere 8.0

Version: 2024.09.01 (Recommended)

Important Note!

Release Notes: This driver is only supported on VMware ESXi 8.0u3.

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link: <http://www.hpe.com/storage/spock/>

Enhancements

Driver version 5.4.83.1 This driver is only supported on VMware ESXi 8.0u3

Supported Devices and Features

- HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter

HPE QLogic Fibre Channel driver component for VMware vSphere 8.0

Version: 2024.09.01 (Recommended)

Important Note!

Release Notes: 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](http://hpe.vibsdepot.hpe.com) webpages, plus an HPE specific CPXXXX.xml file.

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link: <http://www.hpe.com/storage/spock/>

Enhancements

Driver version 5.4.82.1

Supported Devices and Features

- HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter

HPE Storage Emulex Fibre Channel driver component for VMware vSphere 7.0

Version: 2024.09.01 (Recommended)

Important Note!

Release notes: 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](http://hpe.vibsdepot.hpe.com) webpages, plus an HPE specific CPXXXX.xml file. Updated to Driver version 14.2.673.36

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:<http://www.hpe.com/storage/spock/>

Enhancements

Updated to Driver version 14.2.673.36

Supported Devices and Features

- HPE SN1610E 32Gb Dual port Fibre Channel Host Bus Adapter
- HPE SN1610E 32Gb Single port Fibre Channel Host Bus Adapter
- HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter

Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux - Red Hat Enterprise Linux (RHEL)

Version: 4.2-1 (c) (Optional)

Prerequisites

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

Fixes

This Component is FIPs enabled.

Enhancements

This Component is FIPs enabled.

Supported Devices and Features

- HPE SN1610E 32Gb Dual port Fibre Channel Host Bus Adapter
- HPE SN1610E 32Gb Single port Fibre Channel Host Bus Adapter
- HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter

HPE Emulex Fibre Channel Enablement Kit for Host Bus Adapters for Red Hat Enterprise Linux 8 Server

Version: 14.4.329.3 (Recommended)

Important Note!

Release notes:Broadcom Release notes 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.) Version updated to 14.4.329.3

Prerequisites

The target environment must have the libHBAAPI Package installed prior to the installation of the enablement kit. (If not already present, the libHBAAPI Package can be obtained from the operating system installation media.)

Enhancements

Version updated to 14.4.329.3

Supported Devices and Features

- HPE SN1610E 32Gb Dual port Fibre Channel Host Bus Adapter
- HPE SN1610E 32Gb Single port Fibre Channel Host Bus Adapter
- HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter

HPE Emulex Fibre Channel Smart SAN Enablement Kit for Host Bus Adapters for Microsoft Windows Server 2019 (x86_64)

Version: 1.0.0.1 (b) (Optional)

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. Obtain Smart SAN User Guide for 3PAR at following link: HPE Smart SAN for 3PAR 2.0 User Guide

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:<http://www.hpe.com/storage/spock/> The HPE supplied fibre channel driver must be installed prior to this enablement kit component if you want to enable Smart SAN functionality. The latest Emulex FC driver 14.0.534.0 is available on the Service Pack for ProLiant (SPP) which is available at <http://www.hpe.com/servers/spp/download/> However, if a Smart SAN enabled driver is not installed at execution time, the component will land the enablement kit files for future use after the driver has been installed.

Enhancements

Updated to version 1.0.0.1

Supported Devices and Features

- HPE SN1610E 32Gb Dual port Fibre Channel Host Bus Adapter
- HPE SN1610E 32Gb Single port Fibre Channel Host Bus Adapter
- HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter

HPE Emulex Fibre Channel Smart SAN Enablement Kit for Host Bus Adapters for Microsoft Windows Server 2022 (x86_64)

Version: 1.0.0.1 (b) (Optional)

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. Obtain Smart SAN User Guide for 3PAR at following link: HPE Smart SAN for 3PAR 2.0 User Guide

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:<http://www.hpe.com/storage/spock/> The HPE supplied fibre channel driver must be installed prior to this enablement kit component if you want to enable Smart SAN functionality. The driver is available on the HPE.com website at www.hpe.com. 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

- HPE SN1610E 32Gb Dual port Fibre Channel Host Bus Adapter
- HPE SN1610E 32Gb Single port Fibre Channel Host Bus Adapter
- HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter

HPE Emulex Smart SAN Enablement Kit for Linux

Version: 1.0.0.0-4 (c) (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. Obtain Smart SAN User Guide for 3PAR at following link: HPE Smart SAN for 3PAR 2.0 User Guide

Prerequisites

Fixes

This Component is FIPs enabled.

Enhancements

This Component is FIPs enabled.

Supported Devices and Features

- HPE SN1610E 32Gb Dual port Fibre Channel Host Bus Adapter
- HPE SN1610E 32Gb Single port Fibre Channel Host Bus Adapter
- HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter

HPE QLogic Fibre Channel Enablement Kit for Host Bus Adapter for Linux

Version: 6.0.0.1-4 (Recommended)

Important Note!

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link: [The Enablement Kit](#) requires that the target environment have the libHBAAPI package installed from your OS installation media.

Enhancements

Updated the kit to version 6.0.0.1-4

Supported Devices and Features

- HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter

HPE QLogic Smart SAN Enablement Kit for Fibre Channel Host Bus Adapter for Microsoft Windows Server 2019 (x86_64)

Version: 1.0.0.1 (b) (Optional)

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. Obtain Smart SAN User Guide for 3PAR at following link: [HPE Smart SAN for 3PAR 2.0 User Guide](#)

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link: <http://www.hpe.com/storage/spock/> The HPE supplied fibre channel driver must be installed prior to this enablement kit component if you want to enable Smart SAN functionality. The latest Qlogic FC driver

9.4.6.20 is available on the Service Pack for ProLiant (SPP) which is available at <http://www.hpe.com/servers/spp/download/> However, if a Smart SAN enabled driver is not installed at execution time, the component will land the enablement kit files for future use after the driver has been installed.

Enhancements

Updated to version 1.0.0.1

Supported Devices and Features

- HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter

HPE QLogic Smart SAN Enablement Kit for Fibre Channel Host Bus Adapter for Microsoft Windows Server 2022 (x86_64)

Version: 1.0.0.1 (b) (Optional)

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. Obtain Smart SAN User Guide for 3PAR at following link: HPE Smart SAN for 3PAR 2.0 User Guide

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:<http://www.hpe.com/storage/spock/>The HPE supplied fibre channel driver must be installed prior to this enablement kit component if you want to enable Smart SAN functionality. The driver is available on the HPE.com website at www.hpe.com.

- HPE Storage Fibre Channel Adapter Kit for the QLogic Storport Driver for Windows Server 2022 version 9.4.6.20, cp054361.exe

However, if a Smart SAN enabled driver is not installed at execution time, the component will land the enablement kit files for future use after the driver has been installed.

Enhancements

Updated to version 1.0.0.1

Supported Devices and Features

- HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter

HPE QLogic Smart SAN Enablement kit for Linux

Version: 3.3-3 (c) (Optional)

Important Note!

Release Notes:HPE QLogic Adapters Release Notes Obtain Smart SAN User Guide for 3PAR at following link: HPE Smart SAN for 3PAR 2.0 User Guide

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:<http://www.hpe.com/storage/spock/>The HPE supplied fibre channel driver must be installed prior to this enablement kit component if you want to enable Smart SAN functionality. The driver is available on the HPE.com website at www.hpe.com.

- Red Hat Enterprise Linux 8 Server FC Driver Kit for HPE QLogic HBAs , version 10.02.07.00-k1.
- Red Hat Enterprise Linux 9 Server FC Driver Kit for HPE QLogic HBAs , version 10.02.07.00-k1.

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.

Fixes

This Component is FIPs enabled.

Enhancements

This Component is FIPs enabled.

Supported Devices and Features

- HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter

Agentless Management Service (iLO 5, iLO 6) for Red Hat Enterprise Linux 9 Server

Version: 3.6.0 (Optional)

Prerequisites

- amsd only supported on HPE Gen10/Gen10 Plus and later Server Generations.
- amsd provides information to the iLO 5 and iLO 6 service providing SNMP support

Fixes

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

Enhancements

See the AMS Release Notes for information about the enhancements in this release.

Agentless Management Service (iLO5, iLO 6) for Red Hat Enterprise Linux 8 Server

Version: 3.6.0 (Optional)

Prerequisites

- amsd only supported on HPE Gen10/Gen10 Plus Servers and later Server Generations.
- amsd provides information to the iLO 5 and iLO 6 service providing SNMP support.

Fixes

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

Enhancements

See the AMS Release Notes for information about the enhancements in this release.

HPE Agentless Management Bundle Smart Component on ESXi for Gen11 Servers

Version: 2024.09.01 (Recommended)

Fixes

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

Enhancements

See the AMS Release Notes for information about the enhancements in this release.

HPE Gen11 Agentless Management Service for Microsoft Windows x64

Version: 3.50.0.0 (Recommended)

Important Note!

- During AMS installation in interactive mode, there is pop up message to selectively install SMA.
About installation and enablement of SMA service:
 - If Yes is selected, SMA service will be installed and set to running state.
 - If No is selected, SMA service will be installed but the service is not enabled.
- During AMS installation in silent mode, SMA is installed but the service is not enabled.
- To enable SMA service at a later time, go to the following folder: %ProgramFiles%\OEM\AMS\Service\ (Typically c:\Program Files\OEM\AMS\Service) and execute "EnableSma.bat /f"
- IMPORTANT: The SNMP service community name and permission must also be setup. This is not done by "EnableSma.bat".
- To disable SMA after it has been enabled, go to the following folder: %ProgramFiles%\OEM\AMS\Service\ (Typically c:\Program Files\OEM\AMS\Service) and execute "DisableSma.bat /f"
- After installing Windows operating system, make sure all the latest Microsoft Updates are downloaded and installed (wuapp.exe can be launched to start the update process). If this is not done, a critical error may be reported in Windows Event Log, "The Agentless Management Service terminated unexpectedly".
AMS Control Panel Applet:
 - The AMS control panel applet UI is best displayed on the system when screen resolution is 1280 x 1024 pixels or higher and text size 100%.
 - Test trap generated from AMS Control Panel Applet requires iLO6 firmware version 1.1 and newer.

- When in iLO6 high security mode (e.g. FIPS mode), MD5 authentication protocol will not be shown.

Prerequisites

Microsoft SNMP Service must be enabled, if SMA (System Management Assistant) is enabled.

Fixes

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

Enhancements

See the AMS Release Notes for information about the enhancements in this release.

HPE MegaRAID Storage Administrator for Linux 64-bit (HPE MRSA for Gen10P and Gen11 Controllers)

Version: 8.6.18.0 (B) (Recommended)

Prerequisites

- For SLES15 and above platforms, one of the dependent rpms - 'insserv-compat' is required during installation/uninstallation. This is needed because MRSA startup script is based on SysV/init script and insserv adds as a bridge between SysV/init script and systemctl.
- From RHEL 8+ the Desktop ICON Launching property is disabled by default. Please use either yum or DNF to install gnome-tweak-tool and Enable the Desktop Shortcut feature to launch MRSA. The chkconfig package is not present in RHEL 9 by default. This package is required to auto start MRSA service on system boot. Please install chkconfig package before installing the MRSA.

Enhancements

Support HPE ProLiant DL145 Gen11 server.

HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for Gen10 Plus and Gen11 Controllers)

Version: 8.6.18.0 (D) (Recommended)

Enhancements

Support Microsoft Windows Server 2025

HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit (for Gen10 and Gen11 Controllers)

Version: 007.2613.0000.0000 (B) (Optional)

Enhancements

Support HPE ProLiant DL145 Gen11 server.

HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers)

Version: 7.2613.0.0 (C) (Recommended)

Enhancements

Support Microsoft Windows Server 2025

Smart Storage Administrator (SSA) CLI for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers

Version: 6.40.6.0 (Recommended)

Fixes

- Fixed an issue where failed drive details were displayed multiple times in the 'show config' output.
- Fixed incorrect error messages displayed in SSACLI when the modify command threw an error if the 'drive' and 'drivetype' parameters coexisted.
- Fixed an issue where the array creation command failed when executed with the drives=all and drivetype=sata_hdd parameters.
- Fixed an issue where the drives behind the enclosures were missing in the SSACLI output.
- Fixed an issue where users encountered a failure when launching the SSASCRIPING tool to restore a RAID configuration with an unsupported parameter for PrebootHealthReporting.
- Fixed an issue causing a digest mismatch or missing digest error when installing SSA tools on Linux systems with FIPS enabled.

Enhancements

- To improve the output format of the NVMe drive health log for the show command.

Smart Storage Administrator (SSA) CLI for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers

Version: 6.40.6.0 (Recommended)

Fixes

- Fixed an issue where failed drive details were displayed multiple times in the 'show config' output.
- Fixed incorrect error messages displayed in SSACLI when the modify command threw an error if the 'drive' and 'drivetype' parameters coexisted.
- Fixed an issue where the array creation command failed when executed with the drives=all and drivetype=sata_hdd parameters.
- Fixed an issue where the drives behind the enclosures were missing in the SSACLI output.
- Fixed an issue where users encountered a failure when launching the SSASCRIPING tool to restore a RAID configuration with an unsupported parameter for PrebootHealthReporting.

Enhancements

- To improve the output format of the NVMe drive health log for the show command.

Smart Storage Administrator (SSA) for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers

Version: 6.40.6.0 (Recommended)

Prerequisites

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.

Fixes

- Fixed an issue causing a digest mismatch or missing digest error when installing SSA tools on Linux systems with FIPS enabled.

Smart Storage Administrator (SSA) for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers

Version: 6.40.6.0 (Recommended)

Fixes

- Fixed an issue causing a digest mismatch or missing digest error when installing SSA tools on Linux systems with FIPS enabled.

Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers

Version: 6.40.6.0 (Recommended)

Fixes

- Fixed an issue where failed drive details were displayed multiple times in the 'show config' output.
- Fixed incorrect error messages displayed in SSACLI when the modify command threw an error if the 'drive' and 'drivetype' parameters coexisted.
- Fixed an issue where the array creation command failed when executed with the drives=all and drivetype=sata_hdd parameters.
- Fixed an issue where the drives behind the enclosures were missing in the SSACLI output.
- Fixed an issue where users encountered a failure when launching the SSASCRIPING tool to restore a RAID configuration with an unsupported parameter for PrebootHealthReporting.
- Fixed an issue causing a digest mismatch or missing digest error when installing SSA tools on Linux systems with FIPS enabled.

Enhancements

- To improve the output format of the NVMe drive health log for the show command.

Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers

Version: 6.40.6.0 (Recommended)

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).

Fixes

- Fixed an issue where failed drive details were displayed multiple times in the 'show config' output.
- Fixed incorrect error messages displayed in SSACLI when the modify command threw an error if the 'drive' and 'drivetype' parameters coexisted.
- Fixed an issue where the array creation command failed when executed with the drives=all and

drivetype=sata_hdd parameters.

- Fixed an issue where the drives behind the enclosures were missing in the SSACLI output.
- Fixed an issue where users encountered a failure when launching the SSASCRIPING tool to restore a RAID configuration with an unsupported parameter for PrebootHealthReporting.

Enhancements

- To improve the output format of the NVMe drive health log for the show command.