HITACHI

HA8000V シリーズ

Service Pack for HA8000V (SPH)

Version 12.02 10

Readme

２０２６年５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。
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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。こちらも合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。

1.3 変更履歴

発行日	変更内容
２０２５年１１月	初版
２０２５年１２月	DL580 Gen12 対応
２０２６年3月	誤記訂正
２０２６年5月	誤記訂正

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/DL320 Gen12(U71)
- HA8000V/ML350 Gen12(U68)
- HA8000V/DL360 Gen12 (U68)
- HA8000V/DL380 Gen12 (U68)
- HA8000V/DL380a Gen12 (U72)
- HA8000V/DL580 Gen12 (U72)

3.2 適用 OS

- Microsoft® Windows Server® 2025
- Microsoft® Windows Server® 2022
- Red Hat® Enterprise Linux® Server 9.5
- VMware® ESX 9.0
- VMware ESXi™ 8.0

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

  なし

- 追加サポートＯＳ

  - Red Hat® Enterprise Linux® Server 9.5

(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 9.4

5. 注意事項

本章では、SPH をご使用になる上で、注意頂く内容を記載しています。

5.1 ドライバ・ユーティリティなどの適用について

最新のドライバ・ファームウェア・ユーティリティなどを、「日立アドバンスドサーバ HA8000V シリーズ ホームページ」で提供しております。

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

5.2 OS の新規・再セットアップの場合の注意事項

OS の新規・再セットアップの際、OS セットアップ前に、セットアップ対象装置の BIOS システムユーティリティを起動した状態で、「5.3 (4) SUM の展開モードに関する補足説明」記載の SUM 展開モードのうち『iLO レポジトリアップデート』を使用してファームウェアを更新してください。OS セットアップ後のオンライン展開モードでの初回 SPH 適用では、SUM インベントリ結果の「推奨されたコンポーネント」に、ファームウェアが選択されていないことを確認してから、適用してください。

「推奨されたコンポーネント」にファームウェアが選択された場合は、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

⑴ iLO インタフェースについて

SUM および iSUT を使用したファームウェア/ドライバのアップデートには、iLO 仮想 NIC (Virtual NIC)を使用します。iLO 仮想 NIC との疎通(“ping 16.1.15.1”)が取れない場合、通信経路に問題がありますので「iLO7 ユーザーガイド」の「Configuring the Virtual NIC feature」を参照して Virtual NIC を有効化してください。

⑵ 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、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

⑶ 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。

⑷ 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)	○	○	○	○	○

※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

⑸ 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」(選択済み)または「Selected」(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」(選択)「Select」(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」(強制)または「Force」(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」(強制)「Forced」(Forced)ボタンで表示されます。)

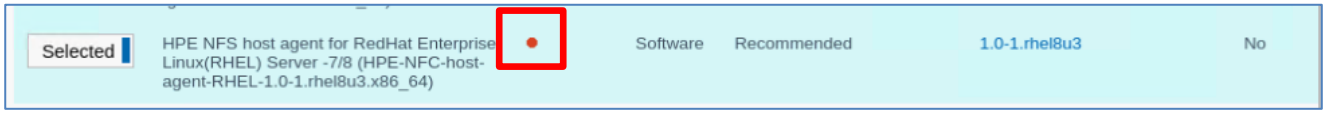
【注意】
ファームウェア/ドライバ/ユーティリティは、別途ご案内のない限り、最新のものをご使用いただくことを推奨しています。特に、強制適用を選択した場合、選択したバージョンが古いとダウングレードとなりますので、意図せずダウングレードしてしまうことが無いよう、操作には注意してください。

⑹ 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。

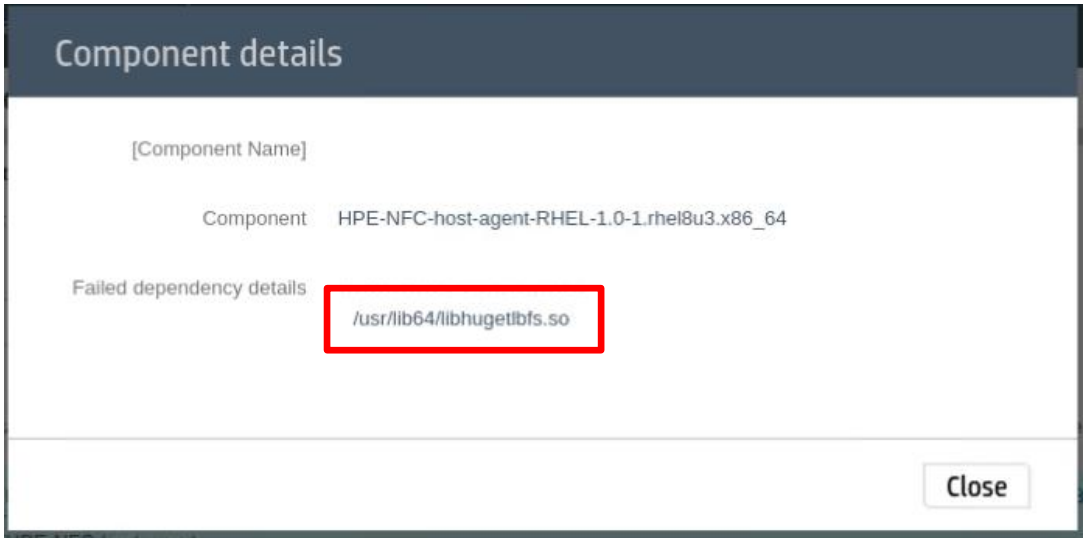
エラーが発生する場合、以降記述の各エラー表示例をご参照頂き、依存ファイルとして表示されるファイル/ライブラリをインストール後、再度 SPH を適用して下さい。

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、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。

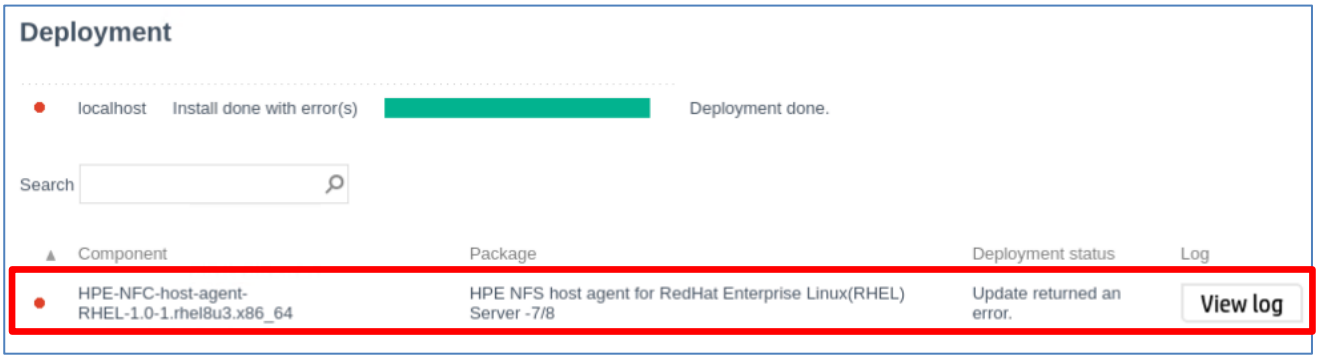


上記赤枠内の赤丸をダブルクリックすると次のダイアログが表示され、”Failed dependency details”として、インストールが必要となるファイル/ライブラリが表示されます。(赤枠内)

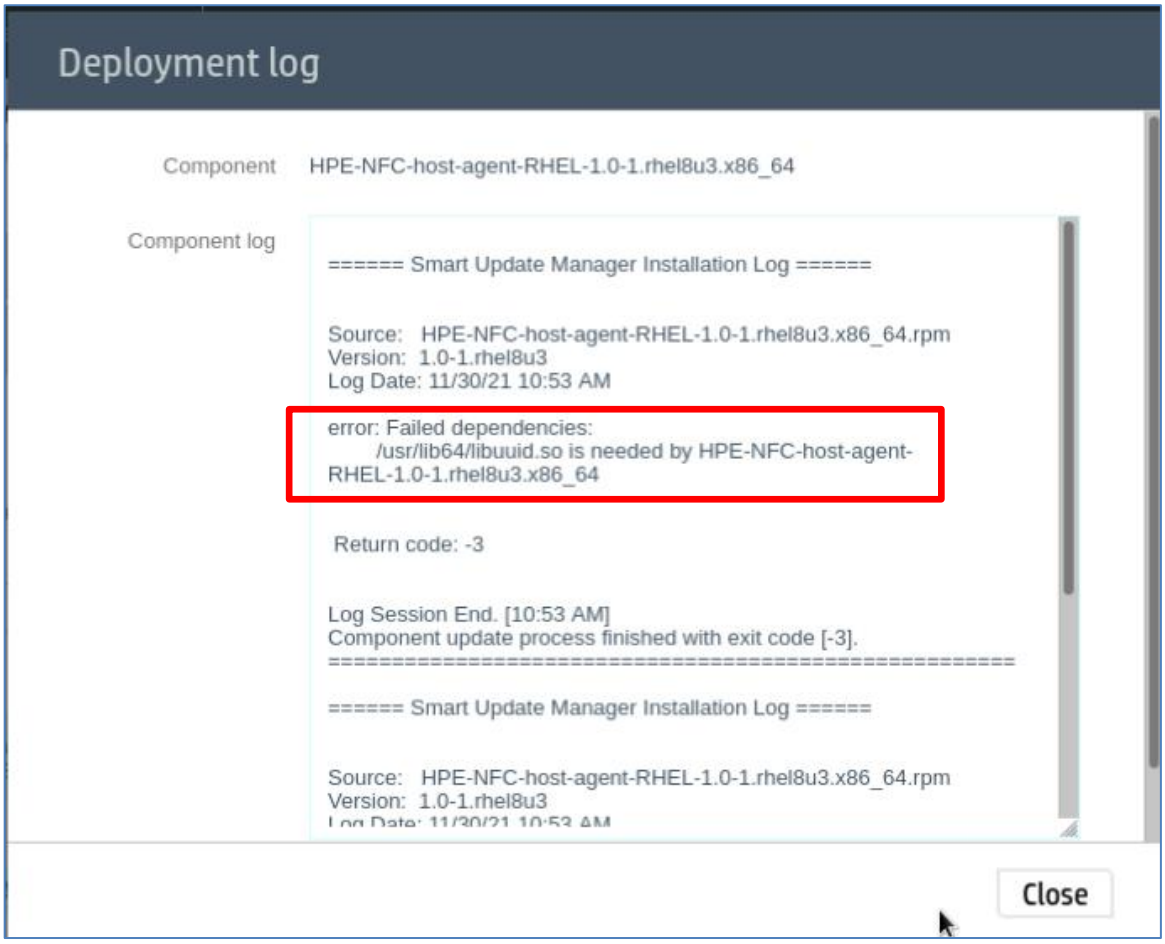


上記の例では、インストールが必要となるファイル/ライブラリとして、”libhugetlbfs.so”を示しています。

【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。



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)



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。

⑺ 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。

この時、キューに追加された途中のコンポーネントで展開エラーが発生した場合、以降のコンポーネントは展開保留状態となります。その状態のコンポーネントがキューに存在すると、以降 iLO レポジトリを利用したアップデートができません。

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。

【エラーが発生した場合のインストールキューの状態】

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

「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。

⑻ SUM 実行でのインベントリ失敗時の対応について

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。

a) iLO の再起動（リセット）を実施してください。詳細は『iLO 7 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 7 x.xx ユーザーガイド』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「製品マニュアル」よりダウンロードしてください。
b) 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。
c) 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。

⑼ 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 (2) 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。

⑽ SPH を使用したダウングレードについて

SPH を使用してダウングレード(バージョンダウン)を行う場合は、以下に記載された機能をデフォルト(※)のまま使用し、展開サマリーに表示される一覧から対象のコンポーネントを個別に選択して実施してください。

※：ファームウェアおよびソフトウェアのアップグレード

アップデートオプション	機　能
ローカルホスト 　ガイドアップデート	レビュー画面の 　「アクション」－「アドバンストオプション」
ノード	展開画面中の「オプション」

【注意】

System FW のダウングレードは、「重要事項および読替ガイド」の「制限事項および注意事項」に記載されているとおり、原則として実施しないでください。

5.4　ASR(Automatic Server Recovery)について

ASR(Automatic Server Recovery)はブルースクリーン等の致命的な OS のエラーが発生したときに自動的にシステムの復旧をするべくサーバ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。

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

ASR の有効/無効の確認並びに切り替えは ASR ドライバ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 2022	iLO 7 Automatic Server Recovery Driver for Microsoft Windows Server 2022 and 2025
2	Windows Server 2025	iLO 7 Automatic Server Recovery Driver for Microsoft Windows Server 2022 and 2025

(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

5.4.2　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
```

5.4.3 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
```

5.4.4 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
```

5.5 VMware をご使用にあたっての注意事項

5.5.1 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、ESXi サーバ、または BIOS セットアップユーティリティを起動した状態で、SUM のリモートオンライン 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。)

【ESXi サーバを起動した状態で適用する場合】
本状態では、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、『5.5.2 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) 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。

【BIOS セットアップユーティリティを起動した状態で適用する場合】
本状態では、ファームウェアのアップデートのみ可能です。
(1) 装置の起動後、BIOS セットアップユーティリティを起動しておきます。
(2) 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) ファームウェアのアップデートを有効化するためには装置の再起動が必要です。全てのコンポーネントの適用が完了するまで、数回装置が再起動します。

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。

5.5.2 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™ 8.0	cp068046.zip	sutComponent:800.6.3.0.13-*.zip
2	VMware® ESX 9.0		

(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
```

5.5.3 iSUT を使用するための設定について

（1）iLO 認証情報の設定

iSUT を使うためには、以下のいずれかの方法で iLO のアカウント設定が必要です。

①iSUT への iLO 認証情報設定

②iLO への Application Account の設定

【補足】

iLO Application Account 利用が必須でない場合は、①の iLO 認証情報設定の使用を推奨します。

①iSUT への認証情報設定

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

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

【注意】

認証情報の設定は、iSUT が OnDemand モードの状態で設定してください。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 への Application Account の設定

iLO に isut の Application Account を設定します。設定は、ESXi ホスト上で以下コマンドを実行します。

sut appaccount create -u <ilo username> -p password <ilo username>

【注意】
iSUT の Application Account の設定状況は、[iLO 設定]＞[ユーザー管理]＞[ユーザー]の「アプリケーションアカウント」から確認できます。この iLO 画面から iSUT の Application Account を削除してしまった場合は、ESXi ホスト上で、”sut appaccount delete”コマンドで情報を削除したのち、再度 Application Account を設定して下さい。

⑵ iSUT の設定確認・変更
ESXi 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、ESXi ホスト上で以下を実行してください。

sut -set enableiloqueuedupdates=true

5.5.4 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[ダッシュボード]＞[ホストの概要]で、「AMS」のステータスが「OK」となっていることを確認してください。

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)

5.5.5 Agentless Management Service の設定
システム装置 Gen12 の VMware システムに対して、iLO Web コンソール上で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 ホスト上で Agentless Management Service へのアカウント情報の設定が必要です。アカウント情報の設定方法については、「HA8000V Gen12 重要事項および読替ガイド」の[Agentless Management Service(AMS)について]-[AMS の設定]を参照してください。

5.6 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。

5.6.1 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ー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。

5.7 RAID コントローラ環境での OS セットアップの注意事項

5.7.1 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 Gen12 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□□-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□□-P74775-B21	MR408i-p Gen11 コントローラ	HPE MR408i-p Gen11 12G Controller Kit
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

(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 ユーザー名/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」https://www.hitachi.co.jp/ha8000v/に掲載されている『Smart Update Manager ユーザーガイド』を参照ください。

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 6.3.0 for ESXi 8.0 and ESXi 9.0	cp068046.zip	-	2025.09.00	800.6.3.0.13-0
2	Integrated Smart Update Tools for Linux x64	sut-6.3.0-29.linux.x86_64.rpm	-	6.3.0.0	6.3.0-29.linux
3	Integrated Smart Update Tools for Windows x64	cp067828.exe	-	6.3.0.0	6.3.0.0

6.2.2 BIOS - System ROM

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
4	ROM Flash Firmware Package - System ROM U68	OEM.U68_1.46_08_08_2025.fwpkg	System BIOS - U68	1.46_08-08-2025 (B)	U68 v1.46 (08/08/2025)
5	ROM Flash Firmware Package - System ROM U71	OEM.U71_1.46_08_08_2025.fwpkg	System BIOS - U71	1.46_08-08-2025	U71 v1.46 (08/08/2025)
6	ROM Flash Firmware Package - System ROM U72	OEM.U72_1.46_08_08_2025.fwpkg	System BIOS - U72	1.46_08-08-2025	U72 v1.46 (08/08/2025)

6.2.3 Driver – Chipset

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
7	Identifiers for Intel Xeon Scalable Processors (Sixth Generation) for Microsoft Windows	cp068365.exe	-	10.1.19928.8615 (D)	10.1.19928.8615

6.2.4 Driver – Network

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
8	Broadcom NX1 1Gb Driver for Windows Server x64 Editions	cp067898.exe	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE	221.0.8.0 (B)	221.0.8.0
9	Broadcom NX1 1Gb Driver for Windows Server x64 Editions	cp067898.exe	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE	221.0.8.0 (B)	221.0.8.0
10	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp066627.exe	BCM 57414 10/25GbE 2p SFP28 Adptr	233.0.148.0	233.0.148.0
11	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp066627.exe	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	233.0.148.0	233.0.148.0
12	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp066627.exe	BCM 57416 10GbE 2p BASE-T Adptr	233.0.148.0	233.0.148.0
13	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp066627.exe	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	233.0.148.0	233.0.148.0
14	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp066627.exe	BCM 57412 10GbE 2p SFP+ Adptr	233.0.148.0	233.0.148.0
15	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp066627.exe	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	233.0.148.0	233.0.148.0
16	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp066627.exe	Broadcom NetXtreme-E BCM57608 100GbE 2p QSFP112 Adptr	233.0.148.0	233.0.148.0
17	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp066627.exe	Broadcom NetXtreme-E BCM57608 100GbE QSFP112 OCP3 Adptr	233.0.148.0	233.0.148.0
18	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp066627.exe	BCM 57504 10/25GbE 4p SFP28 Adptr	233.0.148.0	233.0.148.0
19	Broadcom NetXtreme-E Driver for	cp066627.exe	BCM 57504 10/25GbE	233.0.148.0	233.0.148.0

	Microsoft Windows Server 2022		4p SFP28 OCP3 Adptr		
20	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp067900.exe	BCM 57414 10/25GbE 2p SFP28 Adptr	233.0.148.0 (B)	233.0.148.0
21	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp067900.exe	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	233.0.148.0 (B)	233.0.148.0
22	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp067900.exe	BCM 57416 10GbE 2p BASE-T Adptr	233.0.148.0 (B)	233.0.148.0
23	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp067900.exe	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	233.0.148.0 (B)	233.0.148.0
24	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp067900.exe	BCM 57412 10GbE 2p SFP+ Adptr	233.0.148.0 (B)	233.0.148.0
25	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp067900.exe	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	233.0.148.0 (B)	233.0.148.0
26	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp067900.exe	Broadcom NetXtreme-E BCM57608 100GbE 2p QSFP112 Adptr	233.0.148.0 (B)	233.0.148.0
27	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp067900.exe	Broadcom NetXtreme-E BCM57608 100GbE QSFP112 OCP3 Adptr	233.0.148.0 (B)	233.0.148.0
28	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp067900.exe	BCM 57504 10/25GbE 4p SFP28 Adptr	233.0.148.0 (B)	233.0.148.0
29	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp067900.exe	BCM 57504 10/25GbE 4p SFP28 OCP3 Adptr	233.0.148.0 (B)	233.0.148.0
30	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u5.x86_64.rpm	BCM 57414 10/25GbE 2p SFP28 Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u5
31	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u5.x86_64.rpm	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u5
32	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u5.x86_64.rpm	BCM 57416 10GbE 2p BASE-T Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u5
33	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u5.x86_64.rpm	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u5
34	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u5.x86_64.rpm	BCM 57412 10GbE 2p SFP+ Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u5
35	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u5.x86_64.rpm	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u5
36	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u5.x86_64.rpm	Broadcom NetXtreme-E BCM57608 100GbE 2p QSFP112 Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u5
37	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u5.x86_64.rpm	Broadcom NetXtreme-E BCM57608 100GbE QSFP112 OCP3 Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u5
38	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u5.x86_64.rpm	BCM 57504 10/25GbE 4p SFP28 Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u5
39	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u5.x86_64.rpm	BCM 57504 10/25GbE 4p SFP28 OCP3 Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u5
40	HPE Broadcom NetXtreme-E Drivers for	cp066625.zip	BCM 57414 10/25GbE	2025.05.00	233.0.256.0-

	VMware vSphere 8.0		2p SFP28 Adptr		1OEM.800.1.0 .20613240
41	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp066625.zip	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
42	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp066625.zip	BCM 57416 10GbE 2p BASE-T Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
43	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp066625.zip	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
44	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp066625.zip	BCM 57412 10GbE 2p SFP+ Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
45	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp066625.zip	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
46	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp066625.zip	Broadcom NetXtreme-E BCM57608 100GbE 2p QSFP112 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
47	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp066625.zip	Broadcom NetXtreme-E BCM57608 100GbE QSFP112 OCP3 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
48	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp066625.zip	BCM 57504 10/25GbE 4p SFP28 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
49	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp066625.zip	BCM 57504 10/25GbE 4p SFP28 OCP3 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
50	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp066626.zip	BCM 57414 10/25GbE 2p SFP28 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
51	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp066626.zip	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
52	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp066626.zip	BCM 57416 10GbE 2p BASE-T Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
53	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp066626.zip	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
54	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp066626.zip	BCM 57412 10GbE 2p SFP+ Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
55	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp066626.zip	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
56	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp066626.zip	Broadcom NetXtreme-E BCM57608 100GbE 2p QSFP112 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
57	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp066626.zip	Broadcom NetXtreme-E BCM57608 100GbE QSFP112 OCP3 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
58	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp066626.zip	BCM 57504 10/25GbE 4p SFP28 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
59	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp066626.zip	BCM 57504 10/25GbE 4p SFP28 OCP3 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
60	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 5.	libbnxt_re-233.0.152.2-rhel9u5.x86_64.rpm	BCM 57414 10/25GbE 2p SFP28 Adptr	233.0.152.2	233.0.152.2-rhel9u5

61	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 5.	libbnxt_re-233.0.152.2-rhel9u5.x86_64.rpm	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	233.0.152.2	233.0.152.2-rhel9u5
62	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 5.	libbnxt_re-233.0.152.2-rhel9u5.x86_64.rpm	BCM 57416 10GbE 2p BASE-T Adptr	233.0.152.2	233.0.152.2-rhel9u5
63	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 5.	libbnxt_re-233.0.152.2-rhel9u5.x86_64.rpm	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	233.0.152.2	233.0.152.2-rhel9u5
64	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 5.	libbnxt_re-233.0.152.2-rhel9u5.x86_64.rpm	BCM 57412 10GbE 2p SFP+ Adptr	233.0.152.2	233.0.152.2-rhel9u5
65	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 5.	libbnxt_re-233.0.152.2-rhel9u5.x86_64.rpm	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	233.0.152.2	233.0.152.2-rhel9u5
66	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 5.	libbnxt_re-233.0.152.2-rhel9u5.x86_64.rpm	Broadcom NetXtreme-E BCM57608 100GbE 2p QSFP112 Adptr	233.0.152.2	233.0.152.2-rhel9u5
67	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 5.	libbnxt_re-233.0.152.2-rhel9u5.x86_64.rpm	Broadcom NetXtreme-E BCM57608 100GbE QSFP112 OCP3 Adptr	233.0.152.2	233.0.152.2-rhel9u5
68	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 5.	libbnxt_re-233.0.152.2-rhel9u5.x86_64.rpm	BCM 57504 10/25GbE 4p SFP28 Adptr	233.0.152.2	233.0.152.2-rhel9u5
69	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 5.	libbnxt_re-233.0.152.2-rhel9u5.x86_64.rpm	BCM 57504 10/25GbE 4p SFP28 OCP3 Adptr	233.0.152.2	233.0.152.2-rhel9u5
70	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 9	kmod-tg3-3.139t-1.rhel9u5.x86_64.rpm	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE	3.139t-1	3.139t-1.rhel9u5
71	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 9	kmod-tg3-3.139t-1.rhel9u5.x86_64.rpm	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE	3.139t-1	3.139t-1.rhel9u5
72	HPE Intel iavf Drivers for Red Hat Enterprise Linux 9	kmod-hp-iavf-4.13.14-1.rhel9u5.x86_64.rpm	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	4.13.14-1	4.13.14-1.rhel9u5
73	HPE Intel iavf Drivers for Red Hat Enterprise Linux 9	kmod-hp-iavf-4.13.14-1.rhel9u5.x86_64.rpm	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	4.13.14-1	4.13.14-1.rhel9u5
74	HPE Intel iavf Drivers for Red Hat Enterprise Linux 9	kmod-hp-iavf-4.13.14-1.rhel9u5.x86_64.rpm	Intel E810-XXVDA2 adapter	4.13.14-1	4.13.14-1.rhel9u5
75	HPE Intel iavf Drivers for Red Hat Enterprise Linux 9	kmod-hp-iavf-4.13.14-1.rhel9u5.x86_64.rpm	Intel E810-XXVDA2 OCP3 adapter	4.13.14-1	4.13.14-1.rhel9u5
76	HPE Intel iavf Drivers for Red Hat Enterprise Linux 9	kmod-hp-iavf-4.13.14-1.rhel9u5.x86_64.rpm	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	4.13.14-1	4.13.14-1.rhel9u5
77	HPE Mellanox RoCE ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)	mlnx-ofa_kernel-25.04-OFED.25.04.0.6.1.1.rhel9u5.x86_64.rpm	MLX MCX631102 10/25GbE 2p SFP28 Adptr	25.04-0.6.1.1	25.04-OFED.25.04.0.6.1.1.rhel9u5
78	HPE Mellanox RoCE ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)	mlnx-ofa_kernel-25.04-OFED.25.04.0.6.1.1.rhel9u5.x86_64.rpm	MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr	25.04-0.6.1.1	25.04-OFED.25.04.0.6.1.1.rhel9u5
79	HPE Mellanox RoCE ConnectX-4,	mlnx-ofa_kernel-	HPE IB NDR/EN 400G	25.04-	25.04-

	ConnectX-5, ConnectX-6 and ConnectX-7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)	25.04-OFED.25.04.0.6.1.1.rhel9u5.x86_64.rpm	1p OSFP Adptr	0.6.1.1	OFED.25.04.0.6.1.1.rhel9u5
80	HPE Mellanox RoCE ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)	mlnx-ofa_kernel-25.04-OFED.25.04.0.6.1.1.rhel9u5.x86_64.rpm	HPE IB NDR200/EN 200G 1p OSFP Adptr	25.04-0.6.1.1	25.04-OFED.25.04.0.6.1.1.rhel9u5
81	HPE Mellanox RoCE ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)	mlnx-ofa_kernel-25.04-OFED.25.04.0.6.1.1.rhel9u5.x86_64.rpm	HPE IB NDR200/EN 200G 2p QSFP112 Adptr	25.04-0.6.1.1	25.04-OFED.25.04.0.6.1.1.rhel9u5
82	HPE Mellanox RoCE ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)	mlnx-ofa_kernel-25.04-OFED.25.04.0.6.1.1.rhel9u5.x86_64.rpm	HPE Ethernet 100Gb 2-port QSFP56 MCX623106AS-CDAT Adapter	25.04-0.6.1.1	25.04-OFED.25.04.0.6.1.1.rhel9u5
83	HPE Mellanox RoCE ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)	kmod-mlnx-ofa_kernel-25.04-OFED.25.04.0.6.1.1.rhel9u5.x86_64.rpm	MLX MCX631102 10/25GbE 2p SFP28 Adptr	25.04-0.6.1.1	25.04-OFED.25.04.0.6.1.1.rhel9u5
84	HPE Mellanox RoCE ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)	kmod-mlnx-ofa_kernel-25.04-OFED.25.04.0.6.1.1.rhel9u5.x86_64.rpm	MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr	25.04-0.6.1.1	25.04-OFED.25.04.0.6.1.1.rhel9u5
85	HPE Mellanox RoCE ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)	kmod-mlnx-ofa_kernel-25.04-OFED.25.04.0.6.1.1.rhel9u5.x86_64.rpm	HPE IB NDR/EN 400G 1p OSFP Adptr	25.04-0.6.1.1	25.04-OFED.25.04.0.6.1.1.rhel9u5
86	HPE Mellanox RoCE ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)	kmod-mlnx-ofa_kernel-25.04-OFED.25.04.0.6.1.1.rhel9u5.x86_64.rpm	HPE IB NDR200/EN 200G 1p OSFP Adptr	25.04-0.6.1.1	25.04-OFED.25.04.0.6.1.1.rhel9u5
87	HPE Mellanox RoCE ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)	kmod-mlnx-ofa_kernel-25.04-OFED.25.04.0.6.1.1.rhel9u5.x86_64.rpm	HPE IB NDR200/EN 200G 2p QSFP112 Adptr	25.04-0.6.1.1	25.04-OFED.25.04.0.6.1.1.rhel9u5
88	HPE Mellanox RoCE ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)	kmod-mlnx-ofa_kernel-25.04-OFED.25.04.0.6.1.1.rhel9u5.x86_64.rpm	HPE Ethernet 100Gb 2-port QSFP56 MCX623106AS-CDAT Adapter	25.04-0.6.1.1	25.04-OFED.25.04.0.6.1.1.rhel9u5
89	Intel ice Drivers for Red Hat Enterprise Linux 9	kmod-ice-1.17.8-1.rhel9u5.x86_64.rpm	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	1.17.8-1	1.17.8-1.rhel9u5
90	Intel ice Drivers for Red Hat Enterprise Linux 9	kmod-ice-1.17.8-1.rhel9u5.x86_64.rpm	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	1.17.8-1	1.17.8-1.rhel9u5
91	Intel ice Drivers for Red Hat Enterprise Linux 9	kmod-ice-1.17.8-1.rhel9u5.x86_64.rpm	Intel E810-XXVDA2 adapter	1.17.8-1	1.17.8-1.rhel9u5
92	Intel ice Drivers for Red Hat Enterprise Linux 9	kmod-ice-1.17.8-1.rhel9u5.x86_64.rpm	Intel E810-XXVDA2 OCP3 adapter	1.17.8-1	1.17.8-1.rhel9u5
93	Intel ice Drivers for Red Hat Enterprise Linux 9	kmod-ice-1.17.8-1.rhel9u5.x86_64.rpm	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	1.17.8-1	1.17.8-1.rhel9u5
94	Intel icea Driver for Microsoft Windows Server 2022	cp067503.exe	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	1.17.72.0	1.17.72.0
95	Intel icea Driver for Microsoft Windows Server 2022	cp067503.exe	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	1.17.72.0	1.17.72.0
96	Intel icea Driver for Microsoft Windows	cp067503.exe	Intel E810-XXVDA2	1.17.72.0	1.17.72.0

	Server 2022		adapter		
97	Intel icea Driver for Microsoft Windows Server 2022	cp067503.exe	Intel E810-XXVDA2 OCP3 adapter	1.17.72.0	1.17.72.0
98	Intel icea Driver for Microsoft Windows Server 2022	cp067503.exe	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	1.17.72.0	1.17.72.0
99	Intel icea Driver for Microsoft Windows Server 2025	cp067504.exe	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	1.17.73.0	1.17.73.0
100	Intel icea Driver for Microsoft Windows Server 2025	cp067504.exe	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	1.17.73.0	1.17.73.0
101	Intel icea Driver for Microsoft Windows Server 2025	cp067504.exe	Intel E810-XXVDA2 adapter	1.17.73.0	1.17.73.0
102	Intel icea Driver for Microsoft Windows Server 2025	cp067504.exe	Intel E810-XXVDA2 OCP3 adapter	1.17.73.0	1.17.73.0
103	Intel icea Driver for Microsoft Windows Server 2025	cp067504.exe	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	1.17.73.0	1.17.73.0
104	Intel icen Driver for VMware vSphere 8.0	cp064886.zip	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	2025.05.00	1.15.4.0-1OEM.800.1.0.20613240
105	Intel icen Driver for VMware vSphere 8.0	cp064886.zip	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	2025.05.00	1.15.4.0-1OEM.800.1.0.20613240
106	Intel icen Driver for VMware vSphere 8.0	cp064886.zip	Intel E810-XXVDA2 adapter	2025.05.00	1.15.4.0-1OEM.800.1.0.20613240
107	Intel icen Driver for VMware vSphere 8.0	cp064886.zip	Intel E810-XXVDA2 OCP3 adapter	2025.05.00	1.15.4.0-1OEM.800.1.0.20613240
108	Intel icen Driver for VMware vSphere 8.0	cp064886.zip	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	2025.05.00	1.15.4.0-1OEM.800.1.0.20613240
109	Intel icen Driver for VMware vSphere 9.0	cp065383.zip	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	2025.05.00	1.15.4.0-1OEM.800.1.0.20613240
110	Intel icen Driver for VMware vSphere 9.0	cp065383.zip	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	2025.05.00	1.15.4.0-1OEM.800.1.0.20613240
111	Intel icen Driver for VMware vSphere 9.0	cp065383.zip	Intel E810-XXVDA2 adapter	2025.05.00	1.15.4.0-1OEM.800.1.0.20613240
112	Intel icen Driver for VMware vSphere 9.0	cp065383.zip	Intel E810-XXVDA2 OCP3 adapter	2025.05.00	1.15.4.0-1OEM.800.1.0.20613240
113	Intel icen Driver for VMware vSphere 9.0	cp065383.zip	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	2025.05.00	1.15.4.0-1OEM.800.1.0.20613240
114	Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2022	cp067781.exe	HPE Ethernet 100Gb 2-port QSFP56 MCX623106AS-CDAT Adapter	25.4.26768.0	25.4.26768.0
115	Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2022	cp067781.exe	MLX MCX631102 10/25GbE 2p SFP28 Adptr	25.4.26768.0	25.4.26768.0

116	Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2022	cp067781.exe	MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr	25.4.26768.0	25.4.26768.0
117	Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2025	cp067783.exe	HPE Ethernet 100Gb 2-port QSFP56 MCX623106AS-CDAT Adapter	25.4.26768.0	25.4.26768.0
118	Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2025	cp067783.exe	MLX MCX631102 10/25GbE 2p SFP28 Adptr	25.4.26768.0	25.4.26768.0
119	Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2025	cp067783.exe	MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr	25.4.26768.0	25.4.26768.0

6.2.5 Driver - Security

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
120	Intel QuickAssist Technology driver for Microsoft Windows	cp068357.exe	-	2.5.0.13 (B)	2.5.0.13

6.2.6 Driver - Storage Controller

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
121	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 8.0	cp067936.zip	HPE_MR416i-o_Gen11	2025.09.01	7.732.04.00-1OEM.800.1.0.20613240
122	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 8.0	cp067936.zip	HPE_MR416i-p_Gen11	2025.09.01	7.732.04.00-1OEM.800.1.0.20613240
123	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 8.0	cp067936.zip	HPE_MR216i-o_Gen11	2025.09.01	7.732.04.00-1OEM.800.1.0.20613240
124	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 8.0	cp067936.zip	HPE_MR408i-o_Gen11	2025.09.01	7.732.04.00-1OEM.800.1.0.20613240
125	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 8.0	cp067936.zip	HPE_MR216i-p_Gen11	2025.09.01	7.732.04.00-1OEM.800.1.0.20613240
126	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 8.0	cp067936.zip	HPE_MR408i-p_Gen11	2025.09.01	7.732.04.00-1OEM.800.1.0.20613240
127	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11	cp067967.zip	HPE_MR416i-o_Gen11	2025.09.01	7.732.04.00-1OEM.800.1.0.20613240

	Controllers Driver (64-bit) for vSphere 9.0				
128	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 9.0	cp067967.zip	HPE_MR416i-p_Gen11	2025.09.01	7.732.04.00-1OEM.800.1.0.20613240
129	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 9.0	cp067967.zip	HPE_MR216i-o_Gen11	2025.09.01	7.732.04.00-1OEM.800.1.0.20613240
130	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 9.0	cp067967.zip	HPE_MR408i-o_Gen11	2025.09.01	7.732.04.00-1OEM.800.1.0.20613240
131	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 9.0	cp067967.zip	HPE_MR216i-p_Gen11	2025.09.01	7.732.04.00-1OEM.800.1.0.20613240
132	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 9.0	cp067967.zip	HPE_MR408i-p_Gen11	2025.09.01	7.732.04.00-1OEM.800.1.0.20613240
133	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver for 64-bit Red Hat Enterprise Linux 9	kmod-megaraid_sas-07.732.03.00_rhel9u5-1.x86_64.rpm	HPE_MR416i-o_Gen11	07.732.03.00	07.732.03.00_rhel9u5-1
134	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver for 64-bit Red Hat Enterprise Linux 9	kmod-megaraid_sas-07.732.03.00_rhel9u5-1.x86_64.rpm	HPE_MR416i-p_Gen11	07.732.03.00	07.732.03.00_rhel9u5-1
135	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver for 64-bit Red Hat Enterprise Linux 9	kmod-megaraid_sas-07.732.03.00_rhel9u5-1.x86_64.rpm	HPE_MR216i-o_Gen11	07.732.03.00	07.732.03.00_rhel9u5-1
136	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver for 64-bit Red Hat Enterprise Linux 9	kmod-megaraid_sas-07.732.03.00_rhel9u5-1.x86_64.rpm	HPE_MR408i-o_Gen11	07.732.03.00	07.732.03.00_rhel9u5-1
137	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver for 64-bit Red Hat Enterprise Linux 9	kmod-megaraid_sas-07.732.03.00_rhel9u5-1.x86_64.rpm	HPE_MR216i-p_Gen11	07.732.03.00	07.732.03.00_rhel9u5-1
138	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11	kmod-megaraid_sas-07.732.03.00_rhel9u5-1.x86_64.rpm	HPE_MR408i-p_Gen11	07.732.03.00	07.732.03.00_rhel9u5-1

	Controllers Driver for 64-bit Red Hat Enterprise Linux 9				
139	HPE MR416i-p, MR416i-a, MR216i-p, MR216i-a Gen10p Controllers and MR416i-o, MR416i-p, MR216i-o, MR216i-p, MR408i-o , MR408i-p Gen11 Controllers driver for Microsoft Windows 2025 edition	cp064820.exe	HPE_MR416i-o_Gen11	7.732.3.0	7.732.3.0
140	HPE MR416i-p, MR416i-a, MR216i-p, MR216i-a Gen10p Controllers and MR416i-o, MR416i-p, MR216i-o, MR216i-p, MR408i-o , MR408i-p Gen11 Controllers driver for Microsoft Windows 2025 edition	cp064820.exe	HPE_MR416i-p_Gen11	7.732.3.0	7.732.3.0
141	HPE MR416i-p, MR416i-a, MR216i-p, MR216i-a Gen10p Controllers and MR416i-o, MR416i-p, MR216i-o, MR216i-p, MR408i-o , MR408i-p Gen11 Controllers driver for Microsoft Windows 2025 edition	cp064820.exe	HPE_MR216i-o_Gen11	7.732.3.0	7.732.3.0
142	HPE MR416i-p, MR416i-a, MR216i-p, MR216i-a Gen10p Controllers and MR416i-o, MR416i-p, MR216i-o, MR216i-p, MR408i-o , MR408i-p Gen11 Controllers driver for Microsoft Windows 2025 edition	cp064820.exe	HPE_MR408i-o_Gen11	7.732.3.0	7.732.3.0
143	HPE MR416i-p, MR416i-a, MR216i-p, MR216i-a Gen10p Controllers and MR416i-o, MR416i-p, MR216i-o, MR216i-p, MR408i-o , MR408i-p Gen11 Controllers driver for Microsoft Windows 2025 edition	cp064820.exe	HPE_MR216i-p_Gen11	7.732.3.0	7.732.3.0
144	HPE MR416i-p, MR416i-a, MR216i-p, MR216i-a Gen10p Controllers and MR416i-o, MR416i-p, MR216i-o, MR216i-p, MR408i-o , MR408i-p Gen11 Controllers driver for Microsoft Windows 2025 edition	cp064820.exe	HPE_MR408i-p_Gen11	7.732.3.0	7.732.3.0
145	HPE ProLiant Gen10 Smart Array and Gen10 Plus and Gen11 Smart RAID Controller Driver for VMware vSphere 8.0 (Driver Component).	cp067564.zip	HPE Smart Array E208e-p SR Gen10 Controller	2025.10.01	80.4862.0.104-1OEM.800.1.0.20613240
146	HPE ProLiant Gen10 Smart Array and Gen10 Plus and Gen11 Smart RAID Controller Driver for VMware vSphere 9.0 (Driver Component).	cp067562.zip	HPE Smart Array E208e-p SR Gen10 Controller	2025.09.01	90.4862.0.104-1OEM.900.0.24755229
147	HPE ProLiant Gen10, Gen10Plus and Gen11 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 9 (64-bit)	kmod-smartpqi-2.1.36-026.rhel9u5.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	2.1.36-026	2.1.36-026.rhel9u5
148	HPE Smart Array Gen10, Gen10Plus and Gen11 Controller Driver for Windows Server 2019, Windows Server 2022 and Windows Server 2025	cp067563.exe	HPE Smart Array E208e-p SR Gen10 Controller	1016.24.0.1002	1016.24.0.1002
149	MR416i-p, MR416i-a, MR216i-p, MR216i-a Gen10p Controllers and MR416i-o, MR416i-p, MR216i-o, MR216i-p, MR408i-o , MR408i-p Gen11 Controllers driver for Microsoft Windows 2022 edition	cp064819.exe	HPE_MR416i-o_Gen11	7.732.3.0	7.732.3.0
150	MR416i-p, MR416i-a, MR216i-p, MR216i-a Gen10p Controllers and MR416i-o, MR416i-p, MR216i-o, MR216i-p, MR408i-o , MR408i-p Gen11 Controllers driver for Microsoft Windows 2022 edition	cp064819.exe	HPE_MR416i-p_Gen11	7.732.3.0	7.732.3.0

151	MR416i-p, MR416i-a, MR216i-p, MR216i-a Gen10p Controllers and MR416i-o, MR416i-p, MR216i-o, MR216i-p, MR408i-o , MR408i-p Gen11 Controllers driver for Microsoft Windows 2022 edition	cp064819.exe	HPE_MR216i-o_Gen11	7.732.3.0	7.732.3.0
152	MR416i-p, MR416i-a, MR216i-p, MR216i-a Gen10p Controllers and MR416i-o, MR416i-p, MR216i-o, MR216i-p, MR408i-o , MR408i-p Gen11 Controllers driver for Microsoft Windows 2022 edition	cp064819.exe	HPE_MR408i-o_Gen11	7.732.3.0	7.732.3.0
153	MR416i-p, MR416i-a, MR216i-p, MR216i-a Gen10p Controllers and MR416i-o, MR416i-p, MR216i-o, MR216i-p, MR408i-o , MR408i-p Gen11 Controllers driver for Microsoft Windows 2022 edition	cp064819.exe	HPE_MR216i-p_Gen11	7.732.3.0	7.732.3.0
154	MR416i-p, MR416i-a, MR216i-p, MR216i-a Gen10p Controllers and MR416i-o, MR416i-p, MR216i-o, MR216i-p, MR408i-o , MR408i-p Gen11 Controllers driver for Microsoft Windows 2022 edition	cp064819.exe	HPE_MR408i-p_Gen11	7.732.3.0	7.732.3.0

6.2.7 Driver - Storage Fibre Channel and Fibre Channel over Ethernet

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
155	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2022	cp063576.exe	HPE SN1620E 32Gb 2p FC HBA	14.4.393.20	14.4.393.20
156	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2022	cp063576.exe	HPE SN1720E 64Gb 2p FC HBA	14.4.393.20	14.4.393.20
157	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2025	cp066363.exe	HPE SN1620E 32Gb 2p FC HBA	14.4.393.20 (b)	14.4.393.20
158	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2025	cp066363.exe	HPE SN1720E 64Gb 2p FC HBA	14.4.393.20 (b)	14.4.393.20
159	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2022	cp064250.exe	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	9.4.11.20	9.4.11.20
160	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2022	cp064250.exe	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	9.4.11.20	9.4.11.20
161	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2025	cp066395.exe	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	9.4.11.20 (b)	9.4.11.20
162	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2025	cp066395.exe	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	9.4.11.20 (b)	9.4.11.20
163	Red Hat Enterprise Linux 9 Update 5 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapter	kmod-elx-lpfc-14.4.473.24-1.rhel9u5.x86_64.rpm	HPE SN1620E 32Gb 2p FC HBA	14.4.473.24	14.4.473.24-1.rhel9u5
164	Red Hat Enterprise Linux 9 Update 5 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapter	kmod-elx-lpfc-14.4.473.24-1.rhel9u5.x86_64.rpm	HPE SN1720E 64Gb 2p FC HBA	14.4.473.24	14.4.473.24-1.rhel9u5
165	Red Hat Enterprise Linux 9 Update 5 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters	kmod-qlgc-qla2xxx-10.02.14.00_k1-1.rhel9u5.x86_64.rpm	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	10.02.14.00-k1	10.02.14.00_k1-1.rhel9u5
166	Red Hat Enterprise Linux 9 Update 5	kmod-qlgc-qla2xxx-	HPE SN1610Q 32Gb	10.02.14.00	10.02.14.00_k

	Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters	10.02.14.00_k1-1.rhel9u5.x86_64.rpm	2-port Fibre Channel Host Bus Adapter	-k1	1-1.rhel9u5

6.2.8 Driver - System Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
167	iLO 7 Automatic Server Recovery Driver for Microsoft Windows Server 2022 and 2025	cp068368.exe	-	4.8.0.0 (D)	4.8.0.0
168	iLO 7 Channel Interface Driver for Microsoft Windows Server 2022 and 2025	cp068367.exe	-	4.8.0.0 (D)	4.8.0.0

6.2.9 Driver – Video

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
169	Matrox G200eH3 Video Controller Driver for Microsoft Windows Server 2019, 2022 and 2025	cp068363.exe	-	9.15.1.268 (E)	9.15.1.268
170	Matrox G200eH5 Video Controller Driver for Microsoft Windows Server 2022 and 2025	cp068369.exe	-	9.15.1.271 (C)	9.15.1.271

6.2.10 Firmware - Lights-Out Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
171	Hitachi Online ROM Flash Firmware Package - iLO 7	ilo7_1.17.00.fwpkg	-	1.17.00	1.17.00_pass_53 Aug 13 2025
172	Language Pack - Japanese	lang_ja_117.lpk.fwpkg	-	1.17.00	1.17.11 Aug 27 2025

6.2.11 Firmware – Network

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
173	Broadcom Firmware Package for BCM5741x adapters	bcm233.1.135.7.pup.fwpkg	BCM 57414 10/25GbE 2p SFP28 Adptr	233.1.135.7	233.1.135.7
174	Broadcom Firmware Package for BCM5741x adapters	bcm233.1.135.7.pup.fwpkg	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	233.1.135.7	233.1.135.7
175	Broadcom Firmware Package for BCM5741x adapters	bcm233.1.135.7.pup.fwpkg	BCM 57416 10GbE 2p BASE-T Adptr	233.1.135.7	233.1.135.7
176	Broadcom Firmware Package for BCM5741x adapters	bcm233.1.135.7.pup.fwpkg	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	233.1.135.7	233.1.135.7
177	Broadcom Firmware Package for BCM5741x adapters	bcm233.1.135.7.pup.fwpkg	BCM 57412 10GbE 2p SFP+ Adptr	233.1.135.7	233.1.135.7
178	Broadcom Firmware Package for BCM5741x adapters	bcm233.1.135.7.pup.fwpkg	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	233.1.135.7	233.1.135.7
179	Broadcom Firmware Package for BCM5750x adapters	bcm233.1.135.7_Thor.pup.fwpkg	BCM 57504 10/25GbE 4p SFP28 Adptr	233.1.135.7	233.1.135.7
180	Broadcom Firmware Package for BCM5750x adapters	bcm233.1.135.7_Thor.pup.fwpkg	BCM 57504 10/25GbE 4p SFP28 OCP3 Adptr	233.1.135.7	233.1.135.7
181	Broadcom Firmware Package for BCM57608 100GbE 2p Adapter	BCM233.1.135.7_BCM957608-P2100HQF00.fwpkg	Broadcom NetXtreme-E BCM57608 100GbE 2p QSFP112 Adptr	233.1.135.7	233.1.135.7
182	Broadcom Firmware Package for BCM57608 100GbE 2p OCP3 Adapter	BCM233.1.135.7_BCM957608-N2100HQI00.fwpkg	Broadcom NetXtreme-E BCM57608 100GbE QSFP112 OCP3 Adptr	233.1.135.7	233.1.135.7

183	Broadcom NX1 Firmware Package for BCM5719 OCP3 adapter	BCM5719N1905HC-4x1G-14E4-1657-14E4-1590.fwpkg	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE	20.33.41	20.33.41
184	Broadcom NX1 Firmware Package for BCM5719 adapter	BCM5719A1907HC-4x1G-14E4-1657-14E4-1591.fwpkg	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE	20.33.41	20.33.41
185	Intel Firmware Package For E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter	HPE_E810_CQDA2_4p80_PLDMoMCTP_80020543.fwpkg	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	4.80	4.80
186	Intel Firmware Package For E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter	HPE_E810_CQDA2_OCP_4p80_NCSIwPLDMoMCTP_8002053D.fwpkg	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	4.80	4.80
187	Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter	HPE_E810_XXVDA2_SD_4p80_PLDMoMCTP_8002053C.fwpkg	Intel E810-XXVDA2 adapter	4.80	4.80
188	Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter	HPE_E810_XXVDA2_SD_OCP_4p80_NCSIwPLDMoMCTP_80020544.fwpkg	Intel E810-XXVDA2 OCP3 adapter	4.80	4.80
189	Intel Firmware Package For E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter	HPE_E810_XXVDA4_FH_4p80_PLDMoMCTP_80020540.fwpkg	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	4.80	4.80
190	NVIDIA Firmware Package (FWPKG) - Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	26_45_1020-MCX631102AS-ADA_Ax.pldm.fwpkg	MLX MCX631102 10/25GbE 2p SFP28 Adptr	26.45.1020	26.45.1020
191	NVIDIA Firmware Package (FWPKG) - Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	26_45_1020-MCX631432AS-ADA_Ax.pldm.fwpkg	MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr	26.45.1020	26.45.1020
192	NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR/Ethernet 400Gb 1-port OSFP PCIe5 x16 MCX75310AAS-NEAT Adapter : HPE part numbers P45641-B23 and P45641-H23	28_45_1200-MCX75310AAS-NEAT_HPE2_Ax.pldm.fwpkg	HPE IB NDR/EN 400G 1p OSFP Adptr	28.45.1200	28.45.1200
193	NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR200/Ethernet 200Gb 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Adapter : HPE part numbers P45642-B22 and P45642-H22	28_45_1200-MCX75310AAS-HEAT_HPE2_Ax.pldm.fwpkg	HPE IB NDR200/EN 200G 1p OSFP Adptr	28.45.1200	28.45.1200
194	NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR200/Ethernet 200GbE 2-port QSFP112 PCIe5 x16 MCX755106AC-HEAT Adapter : HPE part numbers P65333-B21 and P65333-H21	28_45_1200-MCX755106AC-HEAT_HPE_Ax.pldm.fwpkg	HPE IB NDR200/EN 200G 2p QSFP112 Adptr	28.45.1200	28.45.1200
195	NVIDIA Firmware Package (FWPKG) for Mellanox MCX623106AS-CDAT Ethernet 100Gb 2-port QSFP56 Adapter for HPE	22_45_1020-MCX623106AS-CDA_Ax.pldm.fwpkg	HPE Ethernet 100Gb 2-port QSFP56 MCX623106AS-CDAT Adapter	22.45.1020	22.45.1020

6.2.12 Firmware - PCIe NVMe Storage Disk

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
196	Universal Firmware Package for Drives - VR000480KXNXE,VR000960KXNZU and VS001920KXNXF	Micron_7450_M7450ALLHPK4.fwpkg	VR000480KXNXE	HPK4	HPK4
197	Universal Firmware Package for Drives - VR000480KXNXE,VR000960KXNZU and VS001920KXNXF	Micron_7450_M7450ALLHPK4.fwpkg	VR000960KXNZU	HPK4	HPK4
198	Universal Firmware Package for Drives - VR000480KXNXE,VR000960KXNZU and	Micron_7450_M7450ALLHPK4.fwpkg	VS001920KXNXF	HPK4	HPK4

	VS001920KXNXF				
199	Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ	SKHynix_PE81X0_KPE81X0AHPK2.fwpkg	MO000800KXPRV	HPK2	HPK2
200	Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ	SKHynix_PE81X0_KPE81X0AHPK2.fwpkg	MO001600KXPTR	HPK2	HPK2
201	Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ	SKHynix_PE81X0_KPE81X0AHPK2.fwpkg	MO003200KXPTT	HPK2	HPK2
202	Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ	SKHynix_PE81X0_KPE81X0AHPK2.fwpkg	MO006400KXPTU	HPK2	HPK2
203	Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ	SKHynix_PE81X0_KPE81X0AHPK2.fwpkg	VO000960KXPRU	HPK2	HPK2
204	Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ	SKHynix_PE81X0_KPE81X0AHPK2.fwpkg	VO001920KXPTN	HPK2	HPK2
205	Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ	SKHynix_PE81X0_KPE81X0AHPK2.fwpkg	VO003840KXPTP	HPK2	HPK2
206	Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ	SKHynix_PE81X0_KPE81X0AHPK2.fwpkg	VO007680KXPTQ	HPK2	HPK2
207	Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ	Kioxia_CD8_KACD8ALSHPK2.fwpkg	MO000800KXUJT	HPK2	HPK2
208	Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ	Kioxia_CD8_KACD8ALSHPK2.fwpkg	MO001600KXUJU	HPK2	HPK2
209	Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ	Kioxia_CD8_KACD8ALSHPK2.fwpkg	MO003200KXUJV	HPK2	HPK2
210	Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ	Kioxia_CD8_KACD8ALSHPK2.fwpkg	MO006400KXUKA	HPK2	HPK2
211	Universal Firmware Package for Drives -	Kioxia_CD8_KACD8AL	VO000960KXUJN	HPK2	HPK2

	MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ	SHPK2.fwpkg			
212	Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ	Kioxia_CD8_KACD8ALSHPK2.fwpkg	VO001920KXUJP	HPK2	HPK2
213	Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ	Kioxia_CD8_KACD8ALSHPK2.fwpkg	VO003840KXUJQ	HPK2	HPK2
214	Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ	Kioxia_CD8_KACD8ALSHPK2.fwpkg	VO007680KXUJR	HPK2	HPK2
215	Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ	Kioxia_CD8_KACD8ALSHPK2.fwpkg	VO015360KYGZQ	HPK2	HPK2
216	Universal Firmware Package for Drives - MO000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP	Micron_7500_Micron_7500_M7500ALLHPK1.fwpkg	MO006400KYDZU	HPK1	HPK1
217	Universal Firmware Package for Drives - MO000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP	Micron_7500_Micron_7500_M7500ALLHPK1.fwpkg	MO003200KYDZT	HPK1	HPK1
218	Universal Firmware Package for Drives - MO000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP	Micron_7500_Micron_7500_M7500ALLHPK1.fwpkg	MO001600KYDZR	HPK1	HPK1
219	Universal Firmware Package for Drives - MO000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP	Micron_7500_Micron_7500_M7500ALLHPK1.fwpkg	MO000800KYDZK	HPK1	HPK1
220	Universal Firmware Package for Drives - MO000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP	Micron_7500_Micron_7500_M7500ALLHPK1.fwpkg	VO007680KYDZP	HPK1	HPK1
221	Universal Firmware Package for Drives - MO000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP	Micron_7500_Micron_7500_M7500ALLHPK1.fwpkg	VO003840KYDZN	HPK1	HPK1
222	Universal Firmware Package for Drives -	Micron_7500_Micron	VO001920KYDZL	HPK1	HPK1

	MO000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP	_7500_M7500ALLHPK1.fwpkg			
223	Universal Firmware Package for Drives - MO000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP	Micron_7500_Micron_7500_M7500ALLHPK1.fwpkg	VO000960KYDZH	HPK1	HPK1
224	Universal Firmware Package for Drives - MO000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP	Micron_7500_Micron_7500_M7500ALLHPK1.fwpkg	VO001536KYDZQ	HPK1	HPK1
225	Universal Firmware Package for Drives - MO001600KXVYH, MO003200KXVZD, MO006400KXVZE, VO001920KXVYF, VO003840KXVZA, VO007680KXVZB and VO015360KXVZC	Kioxia_CM7_KACM7ALSHPK3.fwpkg	MO001600KXVYH	HPK3	HPK3
226	Universal Firmware Package for Drives - MO001600KXVYH, MO003200KXVZD, MO006400KXVZE, VO001920KXVYF, VO003840KXVZA, VO007680KXVZB and VO015360KXVZC	Kioxia_CM7_KACM7ALSHPK3.fwpkg	MO003200KXVZD	HPK3	HPK3
227	Universal Firmware Package for Drives - MO001600KXVYH, MO003200KXVZD, MO006400KXVZE, VO001920KXVYF, VO003840KXVZA, VO007680KXVZB and VO015360KXVZC	Kioxia_CM7_KACM7ALSHPK3.fwpkg	MO006400KXVZE	HPK3	HPK3
228	Universal Firmware Package for Drives - MO001600KXVYH, MO003200KXVZD, MO006400KXVZE, VO001920KXVYF, VO003840KXVZA, VO007680KXVZB and VO015360KXVZC	Kioxia_CM7_KACM7ALSHPK3.fwpkg	VO001920KXVYF	HPK3	HPK3
229	Universal Firmware Package for Drives - MO001600KXVYH, MO003200KXVZD, MO006400KXVZE, VO001920KXVYF, VO003840KXVZA, VO007680KXVZB and VO015360KXVZC	Kioxia_CM7_KACM7ALSHPK3.fwpkg	VO003840KXVZA	HPK3	HPK3
230	Universal Firmware Package for Drives - MO001600KXVYH, MO003200KXVZD, MO006400KXVZE, VO001920KXVYF, VO003840KXVZA, VO007680KXVZB and VO015360KXVZC	Kioxia_CM7_KACM7ALSHPK3.fwpkg	VO007680KXVZB	HPK3	HPK3
231	Universal Firmware Package for Drives - MO001600KXVYH, MO003200KXVZD, MO006400KXVZE, VO001920KXVYF, VO003840KXVZA, VO007680KXVZB and VO015360KXVZC	Kioxia_CM7_KACM7ALSHPK3.fwpkg	VO015360KXVZC	HPK3	HPK3
232	Universal Firmware Package for Drives - MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO001920KYDMT, VO003840KYDMV, VO007680KYDNA and VO015360KYDNB	Samsung_PM173X_GPM173XAHPK6.fwpkg	MO001600KYDMU	HPK6	HPK6
233	Universal Firmware Package for Drives - MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO001920KYDMT, VO003840KYDMV, VO007680KYDNA and VO015360KYDNB	Samsung_PM173X_GPM173XAHPK6.fwpkg	MO003200KYDNC	HPK6	HPK6
234	Universal Firmware Package for Drives - MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO001920KYDMT, VO003840KYDMV, VO007680KYDNA	Samsung_PM173X_GPM173XAHPK6.fwpkg	MO006400KYDND	HPK6	HPK6

	and VO015360KYDNB				
235	Universal Firmware Package for Drives - MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO001920KYDMT, VO003840KYDMV, VO007680KYDNA and VO015360KYDNB	Samsung_PM173X_GPM173XAHPK6.fwpkg	VO001920KYDMT	HPK6	HPK6
236	Universal Firmware Package for Drives - MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO001920KYDMT, VO003840KYDMV, VO007680KYDNA and VO015360KYDNB	Samsung_PM173X_GPM173XAHPK6.fwpkg	VO003840KYDMV	HPK6	HPK6
237	Universal Firmware Package for Drives - MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO001920KYDMT, VO003840KYDMV, VO007680KYDNA and VO015360KYDNB	Samsung_PM173X_GPM173XAHPK6.fwpkg	VO007680KYDNA	HPK6	HPK6
238	Universal Firmware Package for Drives - MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO001920KYDMT, VO003840KYDMV, VO007680KYDNA and VO015360KYDNB	Samsung_PM173X_GPM173XAHPK6.fwpkg	VO015360KYDNB	HPK6	HPK6
239	Universal Firmware Package for Drives - MO001600KYFFF, MO003200KYFET, MO006400KYFEU, VO001920KYFFE, VO003840KYFEP, VO007680KYFEQ and VO015360KYFER	SKHynix_PS10x0_KPS10x0U3DK2.fwpkg	VO015360KYFER	HPK2	HPK2
240	Universal Firmware Package for Drives - MO001600KYFFF, MO003200KYFET, MO006400KYFEU, VO001920KYFFE, VO003840KYFEP, VO007680KYFEQ and VO015360KYFER	SKHynix_PS10x0_KPS10x0U3DK2.fwpkg	VO007680KYFEQ	HPK2	HPK2
241	Universal Firmware Package for Drives - MO001600KYFFF, MO003200KYFET, MO006400KYFEU, VO001920KYFFE, VO003840KYFEP, VO007680KYFEQ and VO015360KYFER	SKHynix_PS10x0_KPS10x0U3DK2.fwpkg	VO003840KYFEP	HPK2	HPK2
242	Universal Firmware Package for Drives - MO001600KYFFF, MO003200KYFET, MO006400KYFEU, VO001920KYFFE, VO003840KYFEP, VO007680KYFEQ and VO015360KYFER	SKHynix_PS10x0_KPS10x0U3DK2.fwpkg	VO001920KYFFE	HPK2	HPK2
243	Universal Firmware Package for Drives - MO001600KYFFF, MO003200KYFET, MO006400KYFEU, VO001920KYFFE, VO003840KYFEP, VO007680KYFEQ and VO015360KYFER	SKHynix_PS10x0_KPS10x0U3DK2.fwpkg	MO006400KYFEU	HPK2	HPK2
244	Universal Firmware Package for Drives - MO001600KYFFF, MO003200KYFET, MO006400KYFEU, VO001920KYFFE, VO003840KYFEP, VO007680KYFEQ and VO015360KYFER	SKHynix_PS10x0_KPS10x0U3DK2.fwpkg	MO003200KYFET	HPK2	HPK2
245	Universal Firmware Package for Drives - MO001600KYFFF, MO003200KYFET, MO006400KYFEU, VO001920KYFFE, VO003840KYFEP, VO007680KYFEQ and VO015360KYFER	SKHynix_PS10x0_KPS10x0U3DK2.fwpkg	MO001600KYFFF	HPK2	HPK2
246	Universal Firmware Package for Drives - MO001600KZYWU, MO003200KZYXB, MO006400KZYXC, VO001920KZYWT, VO003840KZYWV and VO007680KZYXA	Solidigm_P5x20_4IAAHPK5.fwpkg	MO001600KZYWU	HPK5	HPK5
247	Universal Firmware Package for Drives - MO001600KZYWU, MO003200KZYXB, MO006400KZYXC, VO001920KZYWT, VO003840KZYWV and VO007680KZYXA	Solidigm_P5x20_4IAAHPK5.fwpkg	MO003200KZYXB	HPK5	HPK5
248	Universal Firmware Package for Drives - MO001600KZYWU, MO003200KZYXB,	Solidigm_P5x20_4IAAHPK5.fwpkg	MO006400KZYXC	HPK5	HPK5

	MO006400KZYXC, VO001920KZYWT, VO003840KZYWV and VO007680KZYXA				
249	Universal Firmware Package for Drives - MO001600KZYWU, MO003200KZYXB, MO006400KZYXC, VO001920KZYWT, VO003840KZYWV and VO007680KZYXA	Solidigm_P5x20_4IAA HPK5.fwpkg	VO001920KZYWT	HPK5	HPK5
250	Universal Firmware Package for Drives - MO001600KZYWU, MO003200KZYXB, MO006400KZYXC, VO001920KZYWT, VO003840KZYWV and VO007680KZYXA	Solidigm_P5x20_4IAA HPK5.fwpkg	VO003840KZYWV	HPK5	HPK5
251	Universal Firmware Package for Drives - MO001600KZYWU, MO003200KZYXB, MO006400KZYXC, VO001920KZYWT, VO003840KZYWV and VO007680KZYXA	Solidigm_P5x20_4IAA HPK5.fwpkg	VO007680KZYXA	HPK5	HPK5
252	Universal Firmware Package for Drives - MO001600YXUJB, MO003200YXUJC, MO006400YXUJD, VO001920YXUHU, VO003840YXUHV and VO007680YXUJA	Kioxia_CM7_KACM7A LFHPK3.fwpkg	MO001600YXUJB	HPK3	HPK3
253	Universal Firmware Package for Drives - MO001600YXUJB, MO003200YXUJC, MO006400YXUJD, VO001920YXUHU, VO003840YXUHV and VO007680YXUJA	Kioxia_CM7_KACM7A LFHPK3.fwpkg	MO003200YXUJC	HPK3	HPK3
254	Universal Firmware Package for Drives - MO001600YXUJB, MO003200YXUJC, MO006400YXUJD, VO001920YXUHU, VO003840YXUHV and VO007680YXUJA	Kioxia_CM7_KACM7A LFHPK3.fwpkg	MO006400YXUJD	HPK3	HPK3
255	Universal Firmware Package for Drives - MO001600YXUJB, MO003200YXUJC, MO006400YXUJD, VO001920YXUHU, VO003840YXUHV and VO007680YXUJA	Kioxia_CM7_KACM7A LFHPK3.fwpkg	VO001920YXUHU	HPK3	HPK3
256	Universal Firmware Package for Drives - MO001600YXUJB, MO003200YXUJC, MO006400YXUJD, VO001920YXUHU, VO003840YXUHV and VO007680YXUJA	Kioxia_CM7_KACM7A LFHPK3.fwpkg	VO003840YXUHV	HPK3	HPK3
257	Universal Firmware Package for Drives - MO001600YXUJB, MO003200YXUJC, MO006400YXUJD, VO001920YXUHU, VO003840YXUHV and VO007680YXUJA	Kioxia_CM7_KACM7A LFHPK3.fwpkg	VO007680YXUJA	HPK3	HPK3
258	Universal Firmware Package for Drives - MV001600LYCBT, MV003200LYCBA, MV006400LYCBB, VV015360LYHDC, VV001920LYCBR, VV003840LYCAU and VV007680LYCAV	Kioxia_CD8P_KACD8A LEHPK3.fwpkg	VV015360LYHDC	HPK3	HPK3
259	Universal Firmware Package for Drives - MV001600LYCBT, MV003200LYCBA, MV006400LYCBB, VV015360LYHDC, VV001920LYCBR, VV003840LYCAU and VV007680LYCAV	Kioxia_CD8P_KACD8A LEHPK3.fwpkg	MV006400LYCBB	HPK3	HPK3
260	Universal Firmware Package for Drives - MV001600LYCBT, MV003200LYCBA, MV006400LYCBB, VV015360LYHDC, VV001920LYCBR, VV003840LYCAU and VV007680LYCAV	Kioxia_CD8P_KACD8A LEHPK3.fwpkg	MV003200LYCBA	HPK3	HPK3
261	Universal Firmware Package for Drives - MV001600LYCBT, MV003200LYCBA, MV006400LYCBB, VV015360LYHDC, VV001920LYCBR, VV003840LYCAU and VV007680LYCAV	Kioxia_CD8P_KACD8A LEHPK3.fwpkg	MV001600LYCBT	HPK3	HPK3
262	Universal Firmware Package for Drives - MV001600LYCBT, MV003200LYCBA, MV006400LYCBB, VV015360LYHDC, VV001920LYCBR, VV003840LYCAU and VV007680LYCAV	Kioxia_CD8P_KACD8A LEHPK3.fwpkg	VV001920LYCBR	HPK3	HPK3
263	Universal Firmware Package for Drives - MV001600LYCBT, MV003200LYCBA, MV006400LYCBB, VV015360LYHDC,	Kioxia_CD8P_KACD8A LEHPK3.fwpkg	VV003840LYCAU	HPK3	HPK3

	VV001920LYCBR, VV003840LYCAU and VV007680LYCAV				
264	Universal Firmware Package for Drives - MV001600LYCBT, MV003200LYCBA, MV006400LYCBB, VV015360LYHDC, VV001920LYCBR, VV003840LYCAU and VV007680LYCAV	Kioxia_CD8P_KACD8ALEHPK3.fwpkg	VV007680LYCAV	HPK3	HPK3
265	Universal Firmware Package for Drives - MV003200KYFFK, MV006400KYFFA, MV012800KYFFB, VV003840KYFFH, VV007680KYFFL and VV015360KYFEV	SKHynix_PS10x0_KPS10x0E3SK3.fwpkg	MV003200KYFFK	HPK3	HPK3
266	Universal Firmware Package for Drives - MV003200KYFFK, MV006400KYFFA, MV012800KYFFB, VV003840KYFFH, VV007680KYFFL and VV015360KYFEV	SKHynix_PS10x0_KPS10x0E3SK3.fwpkg	MV006400KYFFA	HPK3	HPK3
267	Universal Firmware Package for Drives - MV003200KYFFK, MV006400KYFFA, MV012800KYFFB, VV003840KYFFH, VV007680KYFFL and VV015360KYFEV	SKHynix_PS10x0_KPS10x0E3SK3.fwpkg	MV012800KYFFB	HPK3	HPK3
268	Universal Firmware Package for Drives - MV003200KYFFK, MV006400KYFFA, MV012800KYFFB, VV003840KYFFH, VV007680KYFFL and VV015360KYFEV	SKHynix_PS10x0_KPS10x0E3SK3.fwpkg	VV003840KYFFH	HPK3	HPK3
269	Universal Firmware Package for Drives - MV003200KYFFK, MV006400KYFFA, MV012800KYFFB, VV003840KYFFH, VV007680KYFFL and VV015360KYFEV	SKHynix_PS10x0_KPS10x0E3SK3.fwpkg	VV007680KYFFL	HPK3	HPK3
270	Universal Firmware Package for Drives - MV003200KYFFK, MV006400KYFFA, MV012800KYFFB, VV003840KYFFH, VV007680KYFFL and VV015360KYFEV	SKHynix_PS10x0_KPS10x0E3SK3.fwpkg	VV015360KYFEV	HPK3	HPK3
271	Universal Firmware Package for Drives - MV003200LXUJK, MV006400LXUJL, VV003840LXUJE, VV007680LXUJF and VV015360LXUJH	Kioxia_CM7_KACM7ALEHPK7.fwpkg	MV003200LXUJK	HPK7	HPK7
272	Universal Firmware Package for Drives - MV003200LXUJK, MV006400LXUJL, VV003840LXUJE, VV007680LXUJF and VV015360LXUJH	Kioxia_CM7_KACM7ALEHPK7.fwpkg	MV006400LXUJL	HPK7	HPK7
273	Universal Firmware Package for Drives - MV003200LXUJK, MV006400LXUJL, VV003840LXUJE, VV007680LXUJF and VV015360LXUJH	Kioxia_CM7_KACM7ALEHPK7.fwpkg	VV003840LXUJE	HPK7	HPK7
274	Universal Firmware Package for Drives - MV003200LXUJK, MV006400LXUJL, VV003840LXUJE, VV007680LXUJF and VV015360LXUJH	Kioxia_CM7_KACM7ALEHPK7.fwpkg	VV007680LXUJF	HPK7	HPK7
275	Universal Firmware Package for Drives - MV003200LXUJK, MV006400LXUJL, VV003840LXUJE, VV007680LXUJF and VV015360LXUJH	Kioxia_CM7_KACM7ALEHPK7.fwpkg	VV015360LXUJH	HPK7	HPK7
276	Universal Firmware Package for Drives - MV003200LYJKH, MV006400LYJKK, VV007680LYJKF and VV015360LYXMT	Kioxia_CM7_KACM7AEFHPK4.fwpkg	MV003200LYJKH	HPK4	HPK4
277	Universal Firmware Package for Drives - MV003200LYJKH, MV006400LYJKK, VV007680LYJKF and VV015360LYXMT	Kioxia_CM7_KACM7AEFHPK4.fwpkg	MV006400LYJKK	HPK4	HPK4
278	Universal Firmware Package for Drives - MV003200LYJKH, MV006400LYJKK, VV007680LYJKF and VV015360LYXMT	Kioxia_CM7_KACM7AEFHPK4.fwpkg	VV007680LYJKF	HPK4	HPK4
279	Universal Firmware Package for Drives - MV003200LYJKH, MV006400LYJKK, VV007680LYJKF and VV015360LYXMT	Kioxia_CM7_KACM7AEFHPK4.fwpkg	VV015360LYXMT	HPK4	HPK4
280	Universal Firmware Package for Drives - VK000960KYDPT, VK001920KYDPU, VK003840KYDPV and VK007680KYDQA	Samsung_PM9A3_GPM9A3SAHPK5.fwpkg	VK000960KYDPT	HPK5	HPK5

281	Universal Firmware Package for Drives - VK000960KYDPT, VK001920KYDPU, VK003840KYDPV and VK007680KYDQA	Samsung_PM9A3_GPM9A3SAHPK5.fwpkg	VK001920KYDPU	HPK5	HPK5
282	Universal Firmware Package for Drives - VK000960KYDPT, VK001920KYDPU, VK003840KYDPV and VK007680KYDQA	Samsung_PM9A3_GPM9A3SAHPK5.fwpkg	VK003840KYDPV	HPK5	HPK5
283	Universal Firmware Package for Drives - VK000960KYDPT, VK001920KYDPU, VK003840KYDPV and VK007680KYDQA	Samsung_PM9A3_GPM9A3SAHPK5.fwpkg	VK007680KYDQA	HPK5	HPK5
284	Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB	Micron_7450_Micron_7450_M7450ALLHPS3.fwpkg	VO001920KXNZQ	HPS3	HPS3
285	Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB	Micron_7450_Micron_7450_M7450ALLHPS3.fwpkg	VO003840KXNZR	HPS3	HPS3
286	Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB	Micron_7450_Micron_7450_M7450ALLHPS3.fwpkg	VO007680KXNZT	HPS3	HPS3
287	Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB	Micron_7450_Micron_7450_M7450ALLHPS3.fwpkg	MO000800KXNXH	HPS3	HPS3
288	Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB	Micron_7450_Micron_7450_M7450ALLHPS3.fwpkg	MO001600KXNZV	HPS3	HPS3
289	Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB	Micron_7450_Micron_7450_M7450ALLHPS3.fwpkg	MO003200KXPAA	HPS3	HPS3
290	Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB	Micron_7450_Micron_7450_M7450ALLHPS3.fwpkg	MO006400KXPAB	HPS3	HPS3
291	Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB	Micron_7450_Micron_7450_M7450ALLHPS3.fwpkg	VO000960KXNXD	HPS3	HPS3
292	Universal Firmware Package for Drives - VR000480KXLXF	Samsung_PM9A3_GPM9A3SAHPK4.fwpkg	VR000480KXLXF	HPK4	HPK4
293	Universal Firmware Package for Drives - VR000480KYXPQ, VR000960KYXQA and VR001920KYXQB	SKHynix_PE90X0_KPE9010IHPK2.fwpkg	VR000480KYXPQ	HPK2	HPK2
294	Universal Firmware Package for Drives - VR000480KYXPQ, VR000960KYXQA and VR001920KYXQB	SKHynix_PE90X0_KPE9010IHPK2.fwpkg	VR000960KYXQA	HPK2	HPK2
295	Universal Firmware Package for Drives -	SKHynix_PE90X0_KPE	VR001920KYXQB	HPK2	HPK2

	VR000480KYXPQ, VR000960KYXQA and VR001920KYXQB	9010IHPK2.fwpkg			
296	Universal Firmware Package for Drives - VR000960YYXPR	SKHynix_PE90X0_KPE9010SHPK2.fwpkg	VR000960YYXPR	HPK2	HPK2
297	Universal Firmware Package for Drives - VV001920LYDTT, VV003840LYDTU and VV007680LYDTV	Kioxia_CD7_KACD7ALSHPK6.fwpkg	VV001920LYDTT	HPK6	HPK6
298	Universal Firmware Package for Drives - VV001920LYDTT, VV003840LYDTU and VV007680LYDTV	Kioxia_CD7_KACD7ALSHPK6.fwpkg	VV003840LYDTU	HPK6	HPK6
299	Universal Firmware Package for Drives - VV001920LYDTT, VV003840LYDTU and VV007680LYDTV	Kioxia_CD7_KACD7ALSHPK6.fwpkg	VV007680LYDTV	HPK6	HPK6
300	Universal Firmware Package for Drives - VV003840KXNTH, VV007680KXNTN and VV015360KXNTP	Samsung_PM1743_GPM1743HPK6.fwpkg	VV003840KXNTH	HPK6	HPK6
301	Universal Firmware Package for Drives - VV003840KXNTH, VV007680KXNTN and VV015360KXNTP	Samsung_PM1743_GPM1743HPK6.fwpkg	VV007680KXNTN	HPK6	HPK6
302	Universal Firmware Package for Drives - VV003840KXNTH, VV007680KXNTN and VV015360KXNTP	Samsung_PM1743_GPM1743HPK6.fwpkg	VV015360KXNTP	HPK6	HPK6
303	Universal Firmware Package for Drives - VV003840KXWBF, VV007680KXWBL and VV015360KXWBN	Solidigm_P5x30_SP54304KHPK5.fwpkg	VV003840KXWBF	HPK5	HPK5
304	Universal Firmware Package for Drives - VV003840KXWBF, VV007680KXWBL and VV015360KXWBN	Solidigm_P5x30_SP54304KHPK5.fwpkg	VV007680KXWBL	HPK5	HPK5
305	Universal Firmware Package for Drives - VV003840KXWBF, VV007680KXWBL and VV015360KXWBN	Solidigm_P5x30_SP54304KHPK5.fwpkg	VV015360KXWBN	HPK5	HPK5

6.2.13 Firmware - SAS Storage Disk

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
306	Universal Firmware Package for Drive - MB016000JWXKH	Toshiba_MG08_TAMG08scHPDC.fwpkg	MB016000JWXKH	HPDC	HPDC
307	Universal Firmware Package for Drives - EG000600JWJNP, EG000600JXLVV, EG001200JWJNQ, EG001200JXLWA and EG001200MXJQU	Seagate_Skybolt_SSKYBT512ND9.fwpkg	EG000600JWJNP	HPD9	HPD9
308	Universal Firmware Package for Drives - EG000600JWJNP, EG000600JXLVV, EG001200JWJNQ, EG001200JXLWA and EG001200MXJQU	Seagate_Skybolt_SSKYBT512ND9.fwpkg	EG001200MXJQU	HPD9	HPD9
309	Universal Firmware Package for Drives - EG000600JWJNP, EG000600JXLVV, EG001200JWJNQ, EG001200JXLWA and EG001200MXJQU	Seagate_Skybolt_SSKYBT512ND9.fwpkg	EG001200JWJNQ	HPD9	HPD9
310	Universal Firmware Package for Drives - EG000600JWJNP, EG000600JXLVV, EG001200JWJNQ, EG001200JXLWA and EG001200MXJQU	Seagate_Skybolt_SSKYBT512ND9.fwpkg	EG000600JXLVV	HPD9	HPD9
311	Universal Firmware Package for Drives - EG000600JWJNP, EG000600JXLVV, EG001200JWJNQ, EG001200JXLWA and EG001200MXJQU	Seagate_Skybolt_SSKYBT512ND9.fwpkg	EG001200JXLWA	HPD9	HPD9
312	Universal Firmware Package for Drives - EG001800JWJNR, EG001800JXLWB, EG002400JWJNT, EG002400JXLWC and EG002400MXJQT	Seagate_Skybolt_SSKYBT512EDB.fwpkg	EG002400MXJQT	HPDB	HPDB
313	Universal Firmware Package for Drives - EG001800JWJNR, EG001800JXLWB, EG002400JWJNT, EG002400JXLWC and	Seagate_Skybolt_SSKYBT512EDB.fwpkg	EG001800JWJNR	HPDB	HPDB

	EG002400MXJQT				
314	Universal Firmware Package for Drives - EG001800JWJNR, EG001800JXLWB, EG002400JWJNT, EG002400JXLWC and EG002400MXJQT	Seagate_Skybolt_SSKYBT512EDB.fwpkg	EG002400JWJNT	HPDB	HPDB
315	Universal Firmware Package for Drives - EG001800JWJNR, EG001800JXLWB, EG002400JWJNT, EG002400JXLWC and EG002400MXJQT	Seagate_Skybolt_SSKYBT512EDB.fwpkg	EG001800JXLWB	HPDB	HPDB
316	Universal Firmware Package for Drives - EG001800JWJNR, EG001800JXLWB, EG002400JWJNT, EG002400JXLWC and EG002400MXJQT	Seagate_Skybolt_SSKYBT512EDB.fwpkg	EG002400JXLWC	HPDB	HPDB
317	Universal Firmware Package for Drives - MB001000JWWPV, MB002000JWWQA and MB004000JWWQB	Seagate_Cimarron_SCIMARRNNSD8.fwpkg	MB001000JWWPV	HPD8	HPD8
318	Universal Firmware Package for Drives - MB001000JWWPV, MB002000JWWQA and MB004000JWWQB	Seagate_Cimarron_SCIMARRNNSD8.fwpkg	MB002000JWWQA	HPD8	HPD8
319	Universal Firmware Package for Drives - MB001000JWWPV, MB002000JWWQA and MB004000JWWQB	Seagate_Cimarron_SCIMARRNNSD8.fwpkg	MB004000JWWQB	HPD8	HPD8
320	Universal Firmware Package for Drives - MB002000JYDNE and MB004000JYDPB	Seagate_CimarronBP_SCIMARBPNSD6.fwpkg	MB002000JYDNE	HPD6	HPD6
321	Universal Firmware Package for Drives - MB002000JYDNE and MB004000JYDPB	Seagate_CimarronBP_SCIMARBPNSD6.fwpkg	MB004000JYDPB	HPD6	HPD6
322	Universal Firmware Package for Drives - MB004000JWZVU	Toshiba_MG08Air_TAMG08SDAnD3.fwpkg	MB004000JWZVU	HPD3 (B)	HPD3
323	Universal Firmware Package for Drives - MB006000JWZVQ and MB008000JWZVR	Toshiba_MG08Air_TAMG08SDAeD3.fwpkg	MB006000JWZVQ	HPD3 (B)	HPD3
324	Universal Firmware Package for Drives - MB006000JWZVQ and MB008000JWZVR	Toshiba_MG08Air_TAMG08SDAeD3.fwpkg	MB008000JWZVR	HPD3 (B)	HPD3
325	Universal Firmware Package for Drives - MB006000JYDNF, MB008000JYDPC and MB010000JYDNH	Seagate_CimarronBP_SCIMARBPESD5.fwpkg	MB008000JYDPC	HPD5	HPD5
326	Universal Firmware Package for Drives - MB006000JYDNF, MB008000JYDPC and MB010000JYDNH	Seagate_CimarronBP_SCIMARBPESD5.fwpkg	MB006000JYDNF	HPD5	HPD5
327	Universal Firmware Package for Drives - MB006000JYDNF, MB008000JYDPC and MB010000JYDNH	Seagate_CimarronBP_SCIMARBPESD5.fwpkg	MB010000JYDNH	HPD5	HPD5
328	Universal Firmware Package for Drives - MB008000JWWQP and MB006000JWWQN	Seagate_Cimarron_SCIMARRNESD8.fwpkg	MB008000JWWQP	HPD8	HPD8
329	Universal Firmware Package for Drives - MB008000JWWQP and MB006000JWWQN	Seagate_Cimarron_SCIMARRNESD8.fwpkg	MB006000JWWQN	HPD8	HPD8
330	Universal Firmware Package for Drives - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE	Seagate_Evans_SHPEEVANSSD4.fwpkg	MB012000JWZHB	HPD4	HPD4
331	Universal Firmware Package for Drives - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE	Seagate_Evans_SHPEEVANSSD4.fwpkg	MB010000JWZHA	HPD4	HPD4
332	Universal Firmware Package for Drives - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE	Seagate_Evans_SHPEEVANSSD4.fwpkg	MB014000JWZHC	HPD4	HPD4
333	Universal Firmware Package for Drives - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and	Seagate_Evans_SHPEEVANSSD4.fwpkg	MB016000JWZHE	HPD4	HPD4

	MB016000JWZHE				
334	Universal Firmware Package for Drives - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN	Seagate_EvansBP_SHPEEVSBPSD6.fwpkg	MB010000JYDKK	HPD6	HPD6
335	Universal Firmware Package for Drives - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN	Seagate_EvansBP_SHPEEVSBPSD6.fwpkg	MB012000JYCJF	HPD6	HPD6
336	Universal Firmware Package for Drives - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN	Seagate_EvansBP_SHPEEVSBPSD6.fwpkg	MB014000JYCJV	HPD6	HPD6
337	Universal Firmware Package for Drives - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN	Seagate_EvansBP_SHPEEVSBPSD6.fwpkg	MB016000JYDKL	HPD6	HPD6
338	Universal Firmware Package for Drives - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN	Seagate_EvansBP_SHPEEVSBPSD6.fwpkg	MB018000JYDKN	HPD6	HPD6
339	Universal Firmware Package for Drives - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK	Toshiba_MG09_TAMG09scHPD4.fwpkg	MB012000JZYVN	HPD4	HPD4
340	Universal Firmware Package for Drives - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK	Toshiba_MG09_TAMG09scHPD4.fwpkg	MB014000JZYVP	HPD4	HPD4
341	Universal Firmware Package for Drives - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK	Toshiba_MG09_TAMG09scHPD4.fwpkg	MB016000JZYVQ	HPD4	HPD4
342	Universal Firmware Package for Drives - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK	Toshiba_MG09_TAMG09scHPD4.fwpkg	MB018000JYCLK	HPD4	HPD4
343	Universal Firmware Package for Drives - MB014000JXUCC	WDC_ParisC_PCHFA2BP.fwpkg	MB014000JXUCC	HPD4	HPD4
344	Universal Firmware Package for Drives - MB016000JXLBA and MB018000JXLAU	WDC_ParisC_PCHFA2B3.fwpkg	MB018000JXLAU	HPD3	HPD3
345	Universal Firmware Package for Drives - MB016000JXLBA and MB018000JXLAU	WDC_ParisC_PCHFA2B3.fwpkg	MB016000JXLBA	HPD3	HPD3
346	Universal Firmware Package for Drives - MB018000JXMTH and MB020000JXMTP	Seagate_Longspeak_SLONGSPKESD3.fwpkg	MB018000JXMTH	HPD3	HPD3
347	Universal Firmware Package for Drives - MB018000JXMTH and MB020000JXMTP	Seagate_Longspeak_SLONGSPKESD3.fwpkg	MB020000JXMTP	HPD3	HPD3
348	Universal Firmware Package for Drives - MB020000JXMVU	WDC_ParisD_WparisdASFD1.fwpkg	MB020000JXMVU	HPD1 (B)	HPD1
349	Universal Firmware Package for Drives - MB12000JYESN, MB16000JYEVC, MB20000JYEVD	Seagate_Summit_SUMMITSUSND1.fwpkg	MB12000JYESN	HPD1 (B)	HPD1
350	Universal Firmware Package for Drives - MB12000JYESN, MB16000JYEVC, MB20000JYEVD	Seagate_Summit_SUMMITSUSND1.fwpkg	MB16000JYEVC	HPD1 (B)	HPD1
351	Universal Firmware Package for Drives - MB12000JYESN, MB16000JYEVC, MB20000JYEVD	Seagate_Summit_SUMMITSUSND1.fwpkg	MB20000JYEVD	HPD1 (B)	HPD1
352	Universal Firmware Package for Drives - MB24000JYEVE	Seagate_Summit_SUMMITSUSSD1.fwpkg	MB24000JYEVE	HPD1 (B)	HPD1
353	Universal Firmware Package for Drives - MO000960RXKRC, MO001920RXKRH, MO003840RXKRK, VO000960RXKRB, VO001920RXKRD and VO003840RXKRE	Seagate_LangeBP_SLNGBPHPESD5.fwpkg	MO000960RXKRC	HPD5 (B)	HPD5
354	Universal Firmware Package for Drives - MO000960RXKRC, MO001920RXKRH, MO003840RXKRK, VO000960RXKRB, VO001920RXKRD and VO003840RXKRE	Seagate_LangeBP_SLNGBPHPESD5.fwpkg	MO001920RXKRH	HPD5 (B)	HPD5

355	Universal Firmware Package for Drives - MO000960RXKRC, MO001920RXKRH, MO003840RXKRK, VO000960RXKRB, VO001920RXKRD and VO003840RXKRE	Seagate_LangeBP_SLNGBPHPESD5.fwpkg	MO003840RXKRK	HPD5 (B)	HPD5
356	Universal Firmware Package for Drives - MO000960RXKRC, MO001920RXKRH, MO003840RXKRK, VO000960RXKRB, VO001920RXKRD and VO003840RXKRE	Seagate_LangeBP_SLNGBPHPESD5.fwpkg	VO000960RXKRB	HPD5 (B)	HPD5
357	Universal Firmware Package for Drives - MO000960RXKRC, MO001920RXKRH, MO003840RXKRK, VO000960RXKRB, VO001920RXKRD and VO003840RXKRE	Seagate_LangeBP_SLNGBPHPESD5.fwpkg	VO001920RXKRD	HPD5 (B)	HPD5
358	Universal Firmware Package for Drives - MO000960RXKRC, MO001920RXKRH, MO003840RXKRK, VO000960RXKRB, VO001920RXKRD and VO003840RXKRE	Seagate_LangeBP_SLNGBPHPESD5.fwpkg	VO003840RXKRE	HPD5 (B)	HPD5
359	Universal Firmware Package for Drives - MO000960RXRQK, MO001920RXRRH, MO003840RXRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD	Seagate_Cooper_SCOOPRHPESD4.fwpkg	MO000960RXRQK	HPD4 (B)	HPD4
360	Universal Firmware Package for Drives - MO000960RXRQK, MO001920RXRRH, MO003840RXRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD	Seagate_Cooper_SCOOPRHPESD4.fwpkg	MO001920RXRRH	HPD4 (B)	HPD4
361	Universal Firmware Package for Drives - MO000960RXRQK, MO001920RXRRH, MO003840RXRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD	Seagate_Cooper_SCOOPRHPESD4.fwpkg	MO003840RXRRK	HPD4 (B)	HPD4
362	Universal Firmware Package for Drives - MO000960RXRQK, MO001920RXRRH, MO003840RXRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD	Seagate_Cooper_SCOOPRHPESD4.fwpkg	VO000960RXRQL	HPD4 (B)	HPD4
363	Universal Firmware Package for Drives - MO000960RXRQK, MO001920RXRRH, MO003840RXRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD	Seagate_Cooper_SCOOPRHPESD4.fwpkg	VO001920RXRRL	HPD4 (B)	HPD4
364	Universal Firmware Package for Drives - MO000960RXRQK, MO001920RXRRH, MO003840RXRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD	Seagate_Cooper_SCOOPRHPESD4.fwpkg	VO003840RXRRN	HPD4 (B)	HPD4
365	Universal Firmware Package for Drives - MO000960RXRQK, MO001920RXRRH, MO003840RXRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD	Seagate_Cooper_SCOOPRHPESD4.fwpkg	VO007680RYEWD	HPD4 (B)	HPD4
366	Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU	Kioxia_PM7_KAPM7ALSHPD4.fwpkg	VO015360PXMTU	HPD4	HPD4
367	Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU	Kioxia_PM7_KAPM7ALSHPD4.fwpkg	VO007680PXMTT	HPD4	HPD4
368	Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU	Kioxia_PM7_KAPM7ALSHPD4.fwpkg	VO003840PXMTR	HPD4	HPD4

369	Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU	Kioxia_PM7_KAPM7ALSHPD4.fwpkg	VO001920PXMTL	HPD4	HPD4
370	Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU	Kioxia_PM7_KAPM7ALSHPD4.fwpkg	MO006400PXMUA	HPD4	HPD4
371	Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU	Kioxia_PM7_KAPM7ALSHPD4.fwpkg	MO003200PXMTV	HPD4	HPD4
372	Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU	Kioxia_PM7_KAPM7ALSHPD4.fwpkg	MO001600PXMTN	HPD4	HPD4
373	Universal Firmware Package for Drives - MO001600PXVRU, VO003840PXVRR and VO007680PXVRT	Kioxia_PM7_KAPM7ALFHPD3.fwpkg	VO007680PXVRT	HPD3	HPD3
374	Universal Firmware Package for Drives - MO001600PXVRU, VO003840PXVRR and VO007680PXVRT	Kioxia_PM7_KAPM7ALFHPD3.fwpkg	VO003840PXVRR	HPD3	HPD3
375	Universal Firmware Package for Drives - MO001600PXVRU, VO003840PXVRR and VO007680PXVRT	Kioxia_PM7_KAPM7ALFHPD3.fwpkg	MO001600PXVRU	HPD3	HPD3
376	Universal Firmware Package for Drives - MO001600PZWSH, MO003200PZWSK, MO000800PZWSF and MO006400PZXFA	Samsung_PM165X_GPM1655SAMD4.fwpkg	MO001600PZWSH	HPD4	HPD4
377	Universal Firmware Package for Drives - MO001600PZWSH, MO003200PZWSK, MO000800PZWSF and MO006400PZXFA	Samsung_PM165X_GPM1655SAMD4.fwpkg	MO003200PZWSK	HPD4	HPD4
378	Universal Firmware Package for Drives - MO001600PZWSH, MO003200PZWSK, MO000800PZWSF and MO006400PZXFA	Samsung_PM165X_GPM1655SAMD4.fwpkg	MO000800PZWSF	HPD4	HPD4
379	Universal Firmware Package for Drives - MO001600PZWSH, MO003200PZWSK, MO000800PZWSF and MO006400PZXFA	Samsung_PM165X_GPM1655SAMD4.fwpkg	MO006400PZXFA	HPD4	HPD4
380	Universal Firmware Package for Drives - VO000960PZWSL, VO001920PZWSN, VO003840PZWSP, VO007680PZXFB and VO015360PZXEU	Samsung_PM165X_GPM1653SAMD4.fwpkg	VO000960PZWSL	HPD4	HPD4
381	Universal Firmware Package for Drives - VO000960PZWSL, VO001920PZWSN, VO003840PZWSP, VO007680PZXFB and VO015360PZXEU	Samsung_PM165X_GPM1653SAMD4.fwpkg	VO001920PZWSN	HPD4	HPD4
382	Universal Firmware Package for Drives - VO000960PZWSL, VO001920PZWSN, VO003840PZWSP, VO007680PZXFB and VO015360PZXEU	Samsung_PM165X_GPM1653SAMD4.fwpkg	VO003840PZWSP	HPD4	HPD4
383	Universal Firmware Package for Drives - VO000960PZWSL, VO001920PZWSN, VO003840PZWSP, VO007680PZXFB and VO015360PZXEU	Samsung_PM165X_GPM1653SAMD4.fwpkg	VO007680PZXFB	HPD4	HPD4
384	Universal Firmware Package for Drives - VO000960PZWSL, VO001920PZWSN, VO003840PZWSP, VO007680PZXFB and VO015360PZXEU	Samsung_PM165X_GPM1653SAMD4.fwpkg	VO015360PZXEU	HPD4	HPD4
385	Universal Firmware Package for Drives -	Kioxia_RM6_KARM6A	VO000960RZWUP	HPD1 (B)	HPD1

	VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU	LSHPD1.fwpkg			
386	Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU	Kioxia_RM6_KARM6A LSHPD1.fwpkg	VO000960RZWUQ	HPD1 (B)	HPD1
387	Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU	Kioxia_RM6_KARM6A LSHPD1.fwpkg	VO001920RZWUR	HPD1 (B)	HPD1
388	Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU	Kioxia_RM6_KARM6A LSHPD1.fwpkg	VO001920RZWUV	HPD1 (B)	HPD1
389	Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU	Kioxia_RM6_KARM6A LSHPD1.fwpkg	VO003840RZWUT	HPD1 (B)	HPD1
390	Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU	Kioxia_RM6_KARM6A LSHPD1.fwpkg	VO003840RZWVA	HPD1 (B)	HPD1
391	Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU	Kioxia_RM6_KARM6A LSHPD1.fwpkg	VO007680RZWUU	HPD1 (B)	HPD1

6.2.14 Firmware – SATA Storage Disk

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
392	Universal Firmware Package for Drive - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR	Seagate_EvansBP_SHPEEVSBPTG3.fwpkg	MB010000GYDKP	HPG3	HPG3
393	Universal Firmware Package for Drive - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR	Seagate_EvansBP_SHPEEVSBPTG3.fwpkg	MB012000GYCJL	HPG3	HPG3
394	Universal Firmware Package for Drive - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR	Seagate_EvansBP_SHPEEVSBPTG3.fwpkg	MB014000GYCJT	HPG3	HPG3
395	Universal Firmware Package for Drive - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR	Seagate_EvansBP_SHPEEVSBPTG3.fwpkg	MB016000GYDKQ	HPG3	HPG3
396	Universal Firmware Package for Drive - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR	Seagate_EvansBP_SHPEEVSBPTG3.fwpkg	MB018000GYDKR	HPG3	HPG3
397	Universal Firmware Package for Drive - MB016000GWXKK	Toshiba_MG08_TAMG08acHPG4.fwpkg	MB016000GWXKK	HPG4	HPG4
398	Universal Firmware Package for Drives - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB	Toshiba_Tomcat_TATCATSATAG1.fwpkg	MB001000GWJAN	HPG1	HPG1
399	Universal Firmware Package for Drives - MB001000GWJAN, MB002000GWFWA	Toshiba_Tomcat_TATCATSATAG1.fwpkg	MB002000GWFWA	HPG1	HPG1

	and MB004000GWFWB				
400	Universal Firmware Package for Drives - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB	Toshiba_Tomcat_TATCATSATAG1.fwpkg	MB004000GWFWB	HPG1	HPG1
401	Universal Firmware Package for Drives - MB002000GYDNK and MB004000GYDPD	Seagate_CimarronBP_SCIMARBPNTG4.fwpkg	MB002000GYDNK	HPG4	HPG4
402	Universal Firmware Package for Drives - MB002000GYDNK and MB004000GYDPD	Seagate_CimarronBP_SCIMARBPNTG4.fwpkg	MB004000GYDPD	HPG4	HPG4
403	Universal Firmware Package for Drives - MB004000GWKGV	WDC_VelaA_HVLAnAaseFG1.fwpkg	MB004000GWKGV	HPG1	HPG1
404	Universal Firmware Package for Drives - MB004000GWZVT	Toshiba_MG08Air_TAMG08ADAnG3.fwpkg	MB004000GWZVT	HPG3	HPG3
405	Universal Firmware Package for Drives - MB006000GWKGR	WDC_VelaA_HVLAeAaseFG1.fwpkg	MB006000GWKGR	HPG1	HPG1
406	Universal Firmware Package for Drives - MB006000GWZVL and MB008000GWZVN	Toshiba_MG08Air_TAMG08ADAeG3.fwpkg	MB006000GWZVL	HPG3	HPG3
407	Universal Firmware Package for Drives - MB006000GWZVL and MB008000GWZVN	Toshiba_MG08Air_TAMG08ADAeG3.fwpkg	MB008000GWZVN	HPG3	HPG3
408	Universal Firmware Package for Drives - MB006000GYDNL, MB008000GYDPE and MB010000GYDNN	Seagate_CimarronBP_SCIMARBPETG4.fwpkg	MB006000GYDNL	HPG4	HPG4
409	Universal Firmware Package for Drives - MB006000GYDNL, MB008000GYDPE and MB010000GYDNN	Seagate_CimarronBP_SCIMARBPETG4.fwpkg	MB008000GYDPE	HPG4	HPG4
410	Universal Firmware Package for Drives - MB006000GYDNL, MB008000GYDPE and MB010000GYDNN	Seagate_CimarronBP_SCIMARBPETG4.fwpkg	MB010000GYDNN	HPG4	HPG4
411	Universal Firmware Package for Drives - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL	Toshiba_MG09_TAMG09acHPG4.fwpkg	MB012000GZYVT	HPG4	HPG4
412	Universal Firmware Package for Drives - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL	Toshiba_MG09_TAMG09acHPG4.fwpkg	MB014000GZYVU	HPG4	HPG4
413	Universal Firmware Package for Drives - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL	Toshiba_MG09_TAMG09acHPG4.fwpkg	MB016000GZYVV	HPG4	HPG4
414	Universal Firmware Package for Drives - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL	Toshiba_MG09_TAMG09acHPG4.fwpkg	MB018000GYCLL	HPG4	HPG4
415	Universal Firmware Package for Drives - MB018000GXMTK and MB020000GXMTQ	Seagate_Longspeak_SLONGSPKETG3.fwpkg	MB018000GXMTK	HPG3	HPG3
416	Universal Firmware Package for Drives - MB018000GXMTK and MB020000GXMTQ	Seagate_Longspeak_SLONGSPKETG3.fwpkg	MB020000GXMTQ	HPG3	HPG3
417	Universal Firmware Package for Drives - MB12000GYESP, MB16000GYEVF and MB20000GYEVH	Seagate_Summit_SUMMITSUANG1.fwpkg	MB12000GYESP	HPG1	HPG1
418	Universal Firmware Package for Drives - MB12000GYESP, MB16000GYEVF and MB20000GYEVH	Seagate_Summit_SUMMITSUANG1.fwpkg	MB16000GYEVF	HPG1	HPG1
419	Universal Firmware Package for Drives - MB12000GYESP, MB16000GYEVF and MB20000GYEVH	Seagate_Summit_SUMMITSUANG1.fwpkg	MB20000GYEVH	HPG1	HPG1
420	Universal Firmware Package for Drives - MB24000GYEVK	Seagate_Summit_SUMMITSUASG1.fwpkg	MB24000GYEVK	HPG1	HPG1
421	Universal Firmware Package for Drives - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL	SKHynix_SE5031_K503HPG3.fwpkg	MK000480GWXFF	HPG3	HPG3
422	Universal Firmware Package for Drives - MK000480GWXFF, MK000960GWXFH,	SKHynix_SE5031_K503HPG3.fwpkg	MK000960GWXFH	HPG3	HPG3

	MK001920GWXFK and MK003840GWXFL				
423	Universal Firmware Package for Drives - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL	SKHynix_SE5031_K503HPG3.fwpkg	MK001920GWXFK	HPG3	HPG3
424	Universal Firmware Package for Drives - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL	SKHynix_SE5031_K503HPG3.fwpkg	MK003840GWXFL	HPG3	HPG3
425	Universal Firmware Package for Drives - MK000480GXNXB, MK000960GXNZK, MK001920GXNZL, MK003840GXNZN, VK000240GXNWU, VK000480GXNZA, VK000960GXNZB, VK001920GXNZC, VK003840GXNZD, VK007680GXNZE, VK000480SXNWV, VK001920SXNZF, MK000960SXNXC and MK001920SXNZP	Micron_5400_M5400ALLHPG1.fwpkg	MK000480GXNXB	HPG1	HPG1
426	Universal Firmware Package for Drives - MK000480GXNXB, MK000960GXNZK, MK001920GXNZL, MK003840GXNZN, VK000240GXNWU, VK000480GXNZA, VK000960GXNZB, VK001920GXNZC, VK003840GXNZD, VK007680GXNZE, VK000480SXNWV, VK001920SXNZF, MK000960SXNXC and MK001920SXNZP	Micron_5400_M5400ALLHPG1.fwpkg	MK000960GXNZK	HPG1	HPG1
427	Universal Firmware Package for Drives - MK000480GXNXB, MK000960GXNZK, MK001920GXNZL, MK003840GXNZN, VK000240GXNWU, VK000480GXNZA, VK000960GXNZB, VK001920GXNZC, VK003840GXNZD, VK007680GXNZE, VK000480SXNWV, VK001920SXNZF, MK000960SXNXC and MK001920SXNZP	Micron_5400_M5400ALLHPG1.fwpkg	MK001920GXNZL	HPG1	HPG1
428	Universal Firmware Package for Drives - MK000480GXNXB, MK000960GXNZK, MK001920GXNZL, MK003840GXNZN, VK000240GXNWU, VK000480GXNZA, VK000960GXNZB, VK001920GXNZC, VK003840GXNZD, VK007680GXNZE, VK000480SXNWV, VK001920SXNZF, MK000960SXNXC and MK001920SXNZP	Micron_5400_M5400ALLHPG1.fwpkg	MK003840GXNZN	HPG1	HPG1
429	Universal Firmware Package for Drives - MK000480GXNXB, MK000960GXNZK, MK001920GXNZL, MK003840GXNZN, VK000240GXNWU, VK000480GXNZA, VK000960GXNZB, VK001920GXNZC, VK003840GXNZD, VK007680GXNZE, VK000480SXNWV, VK001920SXNZF, MK000960SXNXC and MK001920SXNZP	Micron_5400_M5400ALLHPG1.fwpkg	VK000240GXNWU	HPG1	HPG1
430	Universal Firmware Package for Drives - MK000480GXNXB, MK000960GXNZK, MK001920GXNZL, MK003840GXNZN, VK000240GXNWU, VK000480GXNZA, VK000960GXNZB, VK001920GXNZC, VK003840GXNZD, VK007680GXNZE, VK000480SXNWV, VK001920SXNZF, MK000960SXNXC and MK001920SXNZP	Micron_5400_M5400ALLHPG1.fwpkg	VK000480GXNZA	HPG1	HPG1
431	Universal Firmware Package for Drives - MK000480GXNXB, MK000960GXNZK, MK001920GXNZL, MK003840GXNZN, VK000240GXNWU, VK000480GXNZA, VK000960GXNZB, VK001920GXNZC, VK003840GXNZD, VK007680GXNZE, VK000480SXNWV, VK001920SXNZF, MK000960SXNXC and MK001920SXNZP	Micron_5400_M5400ALLHPG1.fwpkg	VK000960GXNZB	HPG1	HPG1

432	Universal Firmware Package for Drives - MK000480GXNXB, MK000960GXNZK, MK001920GXNZL, MK003840GXNZN, VK000240GXNWU, VK000480GXNZA, VK000960GXNZB, VK001920GXNZC, VK003840GXNZD, VK007680GXNZE, VK000480SXNWV, VK001920SXNZF, MK000960SXNXC and MK001920SXNZP	Micron_5400_M5400 ALLHPG1.fwpkg	VK001920GXNZC	HPG1	HPG1
433	Universal Firmware Package for Drives - MK000480GXNXB, MK000960GXNZK, MK001920GXNZL, MK003840GXNZN, VK000240GXNWU, VK000480GXNZA, VK000960GXNZB, VK001920GXNZC, VK003840GXNZD, VK007680GXNZE, VK000480SXNWV, VK001920SXNZF, MK000960SXNXC and MK001920SXNZP	Micron_5400_M5400 ALLHPG1.fwpkg	VK003840GXNZD	HPG1	HPG1
434	Universal Firmware Package for Drives - MK000480GXNXB, MK000960GXNZK, MK001920GXNZL, MK003840GXNZN, VK000240GXNWU, VK000480GXNZA, VK000960GXNZB, VK001920GXNZC, VK003840GXNZD, VK007680GXNZE, VK000480SXNWV, VK001920SXNZF, MK000960SXNXC and MK001920SXNZP	Micron_5400_M5400 ALLHPG1.fwpkg	MK000960SXNXC	HPG1	HPG1
435	Universal Firmware Package for Drives - MK000480GXNXB, MK000960GXNZK, MK001920GXNZL, MK003840GXNZN, VK000240GXNWU, VK000480GXNZA, VK000960GXNZB, VK001920GXNZC, VK003840GXNZD, VK007680GXNZE, VK000480SXNWV, VK001920SXNZF, MK000960SXNXC and MK001920SXNZP	Micron_5400_M5400 ALLHPG1.fwpkg	MK001920SXNZP	HPG1	HPG1
436	Universal Firmware Package for Drives - MK000480GXNXB, MK000960GXNZK, MK001920GXNZL, MK003840GXNZN, VK000240GXNWU, VK000480GXNZA, VK000960GXNZB, VK001920GXNZC, VK003840GXNZD, VK007680GXNZE, VK000480SXNWV, VK001920SXNZF, MK000960SXNXC and MK001920SXNZP	Micron_5400_M5400 ALLHPG1.fwpkg	VK001920SXNZF	HPG1	HPG1
437	Universal Firmware Package for Drives - MK000480GXNXB, MK000960GXNZK, MK001920GXNZL, MK003840GXNZN, VK000240GXNWU, VK000480GXNZA, VK000960GXNZB, VK001920GXNZC, VK003840GXNZD, VK007680GXNZE, VK000480SXNWV, VK001920SXNZF, MK000960SXNXC and MK001920SXNZP	Micron_5400_M5400 ALLHPG1.fwpkg	VK000480SXNWV	HPG1	HPG1
438	Universal Firmware Package for Drives - MK000480GXNXB, MK000960GXNZK, MK001920GXNZL, MK003840GXNZN, VK000240GXNWU, VK000480GXNZA, VK000960GXNZB, VK001920GXNZC, VK003840GXNZD, VK007680GXNZE, VK000480SXNWV, VK001920SXNZF, MK000960SXNXC and MK001920SXNZP	Micron_5400_M5400 ALLHPG1.fwpkg	VK007680GXNZE	HPG1	HPG1
439	Universal Firmware Package for Drives - MK000480GXNXB, MK000960GXNZK, MK001920GXNZL, MK003840GXNZN, VK000240GXNWU, VK000480GXNZA, VK000960GXNZB, VK001920GXNZC, VK003840GXNZD, VK007680GXNZE, VK000480SXNWV, VK001920SXNZF, MK000960SXNXC and MK001920SXNZP	Micron_5400_M5400 ALLHPG1.fwpkg	VR000240GXNXA	HPG1	HPG1
440	Universal Firmware Package for Drives - MK000480GXNXB, MK000960GXNZK,	Micron_5400_M5400 ALLHPG1.fwpkg	VR000480GXNZH	HPG1	HPG1

	MK001920GXNZL, MK003840GXNZN, VK000240GXNWU, VK000480GXNZA, VK000960GXNZB, VK001920GXNZC, VK003840GXNZD, VK007680GXNZE, VK000480SXNWV, VK001920SXNZF, MK000960SXNXC and MK001920SXNZP				
441	Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GXPQT and VR000480GXPQU	Solidigm_S4X20_4IYYHPG4.fwpkg	MK000480GYCNT	HPG4	HPG4
442	Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GXPQT and VR000480GXPQU	Solidigm_S4X20_4IYYHPG4.fwpkg	MK000960GYCNP	HPG4	HPG4
443	Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GXPQT and VR000480GXPQU	Solidigm_S4X20_4IYYHPG4.fwpkg	MK001920GYCNF	HPG4	HPG4
444	Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GXPQT and VR000480GXPQU	Solidigm_S4X20_4IYYHPG4.fwpkg	MK003840GYCNQ	HPG4	HPG4
445	Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GXPQT and VR000480GXPQU	Solidigm_S4X20_4IYYHPG4.fwpkg	VK000240GYCNU	HPG4	HPG4
446	Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GXPQT and VR000480GXPQU	Solidigm_S4X20_4IYYHPG4.fwpkg	VK000480GYCNH	HPG4	HPG4
447	Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GXPQT and VR000480GXPQU	Solidigm_S4X20_4IYYHPG4.fwpkg	VK000960GYCNK	HPG4	HPG4
448	Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GXPQT and VR000480GXPQU	Solidigm_S4X20_4IYYHPG4.fwpkg	VK001920GYCNL	HPG4	HPG4
449	Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000	Solidigm_S4X20_4IYYHPG4.fwpkg	VK003840GYCNN	HPG4	HPG4

	960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GXPQT and VR000480GXPQU				
450	Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GXPQT and VR000480GXPQU	Solidigm_S4X20_4IYYHPG4.fwpkg	VK007680GYCNE	HPG4	HPG4
451	Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GXPQT and VR000480GXPQU	Solidigm_S4X20_4IYYHPG4.fwpkg	VR000240GXPQT	HPG4	HPG4
452	Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GXPQT and VR000480GXPQU	Solidigm_S4X20_4IYYHPG4.fwpkg	VR000480GXPQU	HPG4	HPG4
453	Universal Firmware Package for Drives - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV	Samsung_PM897_HPG1PM897.fwpkg	MK000480GZXRA	HPG1	HPG1
454	Universal Firmware Package for Drives - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV	Samsung_PM897_HPG1PM897.fwpkg	MK000960GZXRB	HPG1	HPG1
455	Universal Firmware Package for Drives - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV	Samsung_PM897_HPG1PM897.fwpkg	MK001920GZXRC	HPG1	HPG1
456	Universal Firmware Package for Drives - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV	Samsung_PM897_HPG1PM897.fwpkg	MK003840GZXRV	HPG1	HPG1
457	Universal Firmware Package for Drives - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT	Samsung_PM893_HPG1PM893.fwpkg	VK000240GZXRU	HPG1	HPG1
458	Universal Firmware Package for Drives - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT	Samsung_PM893_HPG1PM893.fwpkg	VK000480GZXRF	HPG1	HPG1
459	Universal Firmware Package for Drives - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT	Samsung_PM893_HPG1PM893.fwpkg	VK000960GZXQU	HPG1	HPG1
460	Universal Firmware Package for Drives - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT	Samsung_PM893_HPG1PM893.fwpkg	VK001920GZXQV	HPG1	HPG1
461	Universal Firmware Package for Drives - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT	Samsung_PM893_HPG1PM893.fwpkg	VK003840GZXRH	HPG1	HPG1
462	Universal Firmware Package for Drives - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT	Samsung_PM893_HPG1PM893.fwpkg	VK007680GZXRT	HPG1	HPG1
463	Universal Firmware Package for Drives - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK	SKHynix_SE5110_K511HPG3.fwpkg	VK003840GZCNK	HPG3	HPG3
464	Universal Firmware Package for Drives - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK	SKHynix_SE5110_K511HPG3.fwpkg	VK001920GZCNH	HPG3	HPG3

465	Universal Firmware Package for Drives - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK	SKHynix_SE5110_K511HPG3.fwpkg	VK000480GZCNE	HPG3	HPG3
466	Universal Firmware Package for Drives - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK	SKHynix_SE5110_K511HPG3.fwpkg	VK000960GZCNF	HPG3	HPG3

6.2.15 Firmware - Storage Controller

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
467	Firmware Package - HPE MR216i-o Gen11 Tri Mode Controller	HPE_MR216i-o_Gen11_52.32.3-6333_A.fwpkg	HPE_MR216i-o_Gen11	52.32.3-6333	52.32.3-6333
468	Firmware Package - HPE MR216i-p Gen11 Tri Mode Controller	HPE_MR216i-p_Gen11_52.32.3-6333_A.fwpkg	HPE_MR216i-p_Gen11	52.32.3-6333	52.32.3-6333
469	Firmware Package - HPE MR408i-o Gen11 Tri Mode Controller	HPE_MR408i-o_Gen11_52.32.3-6333_A.fwpkg	HPE_MR408i-o_Gen11	52.32.3-6333	52.32.3-6333
470	Firmware Package - HPE MR408i-p Gen11 Tri Mode Controller	HPE_MR408i-p_Gen11_52.32.3-6333_A.fwpkg	HPE_MR408i-p_Gen11	52.32.3-6333	52.32.3-6333
471	Firmware Package - HPE MR416i-o Gen11 Tri Mode Controller	HPE_MR416i-o_Gen11_52.32.3-6333_A.fwpkg	HPE_MR416i-o_Gen11	52.32.3-6333	52.32.3-6333
472	Firmware Package - HPE MR416i-p Gen11 Tri Mode Controller	HPE_MR416i-p_Gen11_52.32.3-6333_A.fwpkg	HPE_MR416i-p_Gen11	52.32.3-6333	52.32.3-6333
473	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	HPE_SR_Gen10_7.81_A.fwpkg	HPE Smart Array E208e-p SR Gen10 Controller	7.81	7.81

6.2.16 Firmware - Storage Fibre Channel

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
474	HPE Firmware Flash for Emulex 32Gb and 64Gb Fibre Channel Host Bus Adapters	PP14.4.473.30_header.pldm.fwpkg	HPE SN1620E 32Gb 2p FC HBA	14.4.473.30	14.4.473.30
475	HPE Firmware Flash for Emulex 32Gb and 64Gb Fibre Channel Host Bus Adapters	PP14.4.473.30_header.pldm.fwpkg	HPE SN1720E 64Gb 2p FC HBA	14.4.473.30	14.4.473.30
476	HPE Firmware Flash for QLogic 32Gb and 64Gb Fibre Channel Host Bus Adapters	mh021101.upd_header.pldm.fwpkg	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	02.11.01	02.11.01
477	HPE Firmware Flash for QLogic 32Gb and 64Gb Fibre Channel Host Bus Adapters	mh021101.upd_header.pldm.fwpkg	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	02.11.01	02.11.01

6.2.17 Firmware – System

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
478	Firmware Package - UBM10 Backplane PIC PLDM Firmware	HPE_UBM10_1.04_A.fwpkg	UBM10 Backplane PIC	1.04	1.04
479	Firmware Package - UBM2 Backplane PIC PLDM Firmware for Gen10/Gen10P/Gen11 Servers	HPE_UBM2_1.20_F.fwpkg	UBM2 Backplane PIC	1.20 (F)	1.20
480	Firmware Package - UBM3 Backplane PIC PLDM Firmware for Gen10 and Gen10 Plus and Gen11 servers usage	HPE_UBM3_1.24_G.fwpkg	UBM3 Backplane PIC	1.24 (G)	1.24

481	Firmware Package - UBM4 Backplane PIC PLDM Firmware for Gen10P/Gen11/Gen12 servers usage	HPE_UBM4_1.24_G.fwpkg	UBM4 Backplane PIC	1.24 (G)	1.24
482	Firmware Package - UBM6 Backplane PIC PLDM Firmware for Gen10/Gen10P/Gen11/Gen12 servers usage	HPE_UBM6_1.04_C.fwpkg	UBM6 Backplane PIC	1.04 (C)	1.04

6.2.18 Software - Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
483	Smart Storage Administrator (SSA) CLI Smart Component for ESXi 8.0 for Gen10/Gen10 Plus/Gen11 Controllers	cp065587.zip	HPE Smart Array E208e-p SR Gen10 Controller	2025.09.01	6.50.11.0-8.0.0
484	Smart Storage Administrator (SSA) CLI Smart Component for ESXi 9.0 for Gen10/Gen10 Plus/Gen11 Controllers	cp066605.zip	HPE Smart Array E208e-p SR Gen10 Controller	2025.09.01	6.50.11.0-1OEM.900.0

6.2.19 Software - Storage Controller

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
485	HPE MegaRAID Storage Administrator StorCLI for VMware8.0 (For Gen10P and Gen11 Controllers)	cp067756.zip	HPE_MR416i-o_Gen11	2025.08.01	007.3212.0000.0000-02
486	HPE MegaRAID Storage Administrator StorCLI for VMware8.0 (For Gen10P and Gen11 Controllers)	cp067756.zip	HPE_MR416i-p_Gen11	2025.08.01	007.3212.0000.0000-02
487	HPE MegaRAID Storage Administrator StorCLI for VMware8.0 (For Gen10P and Gen11 Controllers)	cp067756.zip	HPE_MR216i-o_Gen11	2025.08.01	007.3212.0000.0000-02
488	HPE MegaRAID Storage Administrator StorCLI for VMware8.0 (For Gen10P and Gen11 Controllers)	cp067756.zip	HPE_MR408i-o_Gen11	2025.08.01	007.3212.0000.0000-02
489	HPE MegaRAID Storage Administrator StorCLI for VMware8.0 (For Gen10P and Gen11 Controllers)	cp067756.zip	HPE_MR216i-p_Gen11	2025.08.01	007.3212.0000.0000-02
490	HPE MegaRAID Storage Administrator StorCLI for VMware8.0 (For Gen10P and Gen11 Controllers)	cp067756.zip	HPE_MR408i-p_Gen11	2025.08.01	007.3212.0000.0000-02
491	HPE MegaRAID Storage Administrator StorCLI for VMware9.0 (For Gen10P and Gen11 Controllers)	cp067757.zip	HPE_MR416i-o_Gen11	2025.08.01	007.3212.0000.0000-02
492	HPE MegaRAID Storage Administrator StorCLI for VMware9.0 (For Gen10P and Gen11 Controllers)	cp067757.zip	HPE_MR416i-p_Gen11	2025.08.01	007.3212.0000.0000-02
493	HPE MegaRAID Storage Administrator StorCLI for VMware9.0 (For Gen10P and Gen11 Controllers)	cp067757.zip	HPE_MR216i-o_Gen11	2025.08.01	007.3212.0000.0000-02
494	HPE MegaRAID Storage Administrator StorCLI for VMware9.0 (For Gen10P and Gen11 Controllers)	cp067757.zip	HPE_MR408i-o_Gen11	2025.08.01	007.3212.0000.0000-02
495	HPE MegaRAID Storage Administrator StorCLI for VMware9.0 (For Gen10P and Gen11 Controllers)	cp067757.zip	HPE_MR216i-p_Gen11	2025.08.01	007.3212.0000.0000-02
496	HPE MegaRAID Storage Administrator StorCLI for VMware9.0 (For Gen10P and Gen11 Controllers)	cp067757.zip	HPE_MR408i-p_Gen11	2025.08.01	007.3212.0000.0000-02

6.2.20 Software - Storage Fibre Channel

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
497	HPE QLogic Fibre Channel driver	cp066387.zip	HPE SN1610Q 32Gb	2025.05.01	5.4.85.0-

	component for VMware vSphere 8.0		1-port Fibre Channel Host Bus Adapter		1OEM.803.0.0.24022510
498	HPE QLogic Fibre Channel driver component for VMware vSphere 8.0	cp066387.zip	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	2025.05.01	5.4.85.0-1OEM.803.0.0.24022510
499	HPE QLogic Fibre Channel driver component for VMware vSphere 9.0	cp066388.zip	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	2025.05.01	5.5.85.0-1OEM.900.0.24580437
500	HPE QLogic Fibre Channel driver component for VMware vSphere 9.0	cp066388.zip	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	2025.05.01	5.5.85.0-1OEM.900.0.24580437

6.2.21 Software - System Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
501	Agentless Management Service (iLO 5, iLO 6 and iLO 7) for Red Hat Enterprise Linux 9 Server	amsd-4.3.0-2073.5.rhel9.x86_64.rpm	-	4.3.0	4.3.0-2073.5.rhel9
502	Agentless Management Service for Microsoft Windows x64	cp068099.exe	-	4.40.0.0	4.40.0.0
503	HPE Agentless Management Bundle Smart Component on ESXi for Gen11 and Gen12 Servers	cp066690.zip	-	2025.05.01	802.12.2.0.8-1
504	HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit (for Gen10P and Gen11 Controllers)	storcli-007.3212.0000.0000-1.noarch.rpm	HPE_MR416i-o_Gen11	007.3212.0000.0000	007.3212.0000.0000-1
505	HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit (for Gen10P and Gen11 Controllers)	storcli-007.3212.0000.0000-1.noarch.rpm	HPE_MR416i-p_Gen11	007.3212.0000.0000	007.3212.0000.0000-1
506	HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit (for Gen10P and Gen11 Controllers)	storcli-007.3212.0000.0000-1.noarch.rpm	HPE_MR216i-o_Gen11	007.3212.0000.0000	007.3212.0000.0000-1
507	HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit (for Gen10P and Gen11 Controllers)	storcli-007.3212.0000.0000-1.noarch.rpm	HPE_MR408i-o_Gen11	007.3212.0000.0000	007.3212.0000.0000-1
508	HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit (for Gen10P and Gen11 Controllers)	storcli-007.3212.0000.0000-1.noarch.rpm	HPE_MR216i-p_Gen11	007.3212.0000.0000	007.3212.0000.0000-1
509	HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit (for Gen10P and Gen11 Controllers)	storcli-007.3212.0000.0000-1.noarch.rpm	HPE_MR408i-p_Gen11	007.3212.0000.0000	007.3212.0000.0000-1
510	HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers)	cp067755.exe	HPE_MR416i-o_Gen11	7.3212.0.0	7.3212.0.0
511	HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers)	cp067755.exe	HPE_MR416i-p_Gen11	7.3212.0.0	7.3212.0.0
512	HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers)	cp067755.exe	HPE_MR216i-o_Gen11	7.3212.0.0	7.3212.0.0
513	HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers)	cp067755.exe	HPE_MR408i-o_Gen11	7.3212.0.0	7.3212.0.0
514	HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers)	cp067755.exe	HPE_MR216i-p_Gen11	7.3212.0.0	7.3212.0.0
515	HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers)	cp067755.exe	HPE_MR408i-p_Gen11	7.3212.0.0	7.3212.0.0
516	HPE MegaRAID Storage Administrator for RHEL8, RHEL9 and SLES15 (HPE MRSA for Gen10P and Gen11 Controllers)	MRStorageAdministrator-008.012.052.000-00.x86_64.rpm	HPE_MR416i-o_Gen11	8.12.52.0	008.012.052.000-00
517	HPE MegaRAID Storage Administrator	MRStorageAdministra	HPE_MR416i-	8.12.52.0	008.012.052.0

	for RHEL8, RHEL9 and SLES15 (HPE MRSA for Gen10P and Gen11 Controllers)	tor-008.012.052.000-00.x86_64.rpm	p_Gen11		00-00
518	HPE MegaRAID Storage Administrator for RHEL8, RHEL9 and SLES15 (HPE MRSA for Gen10P and Gen11 Controllers)	MRStorageAdministrator-008.012.052.000-00.x86_64.rpm	HPE_MR216i-o_Gen11	8.12.52.0	008.012.052.000-00
519	HPE MegaRAID Storage Administrator for RHEL8, RHEL9 and SLES15 (HPE MRSA for Gen10P and Gen11 Controllers)	MRStorageAdministrator-008.012.052.000-00.x86_64.rpm	HPE_MR408i-o_Gen11	8.12.52.0	008.012.052.000-00
520	HPE MegaRAID Storage Administrator for RHEL8, RHEL9 and SLES15 (HPE MRSA for Gen10P and Gen11 Controllers)	MRStorageAdministrator-008.012.052.000-00.x86_64.rpm	HPE_MR216i-p_Gen11	8.12.52.0	008.012.052.000-00
521	HPE MegaRAID Storage Administrator for RHEL8, RHEL9 and SLES15 (HPE MRSA for Gen10P and Gen11 Controllers)	MRStorageAdministrator-008.012.052.000-00.x86_64.rpm	HPE_MR408i-p_Gen11	8.12.52.0	008.012.052.000-00
522	HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for Gen10 Plus and Gen11 Controllers)	cp066589.exe	HPE_MR416i-o_Gen11	8.12.52.0	8.12.52.0
523	HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for Gen10 Plus and Gen11 Controllers)	cp066589.exe	HPE_MR416i-p_Gen11	8.12.52.0	8.12.52.0
524	HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for Gen10 Plus and Gen11 Controllers)	cp066589.exe	HPE_MR216i-o_Gen11	8.12.52.0	8.12.52.0
525	HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for Gen10 Plus and Gen11 Controllers)	cp066589.exe	HPE_MR408i-o_Gen11	8.12.52.0	8.12.52.0
526	HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for Gen10 Plus and Gen11 Controllers)	cp066589.exe	HPE_MR216i-p_Gen11	8.12.52.0	8.12.52.0
527	HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for Gen10 Plus and Gen11 Controllers)	cp066589.exe	HPE_MR408i-p_Gen11	8.12.52.0	8.12.52.0
528	Smart Storage Administrator (SSA) CLI for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	ssacli-6.50-11.0.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	6.50.11.0	6.50-11.0
529	Smart Storage Administrator (SSA) CLI for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	cp065586.exe	HPE Smart Array E208e-p SR Gen10 Controller	6.50.11.0	6.50.11.0
530	Smart Storage Administrator (SSA) for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	ssa-6.50-11.0.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	6.50.11.0	6.50-11.0
531	Smart Storage Administrator (SSA) for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	cp065585.exe	HPE Smart Array E208e-p SR Gen10 Controller	6.50.11.0	6.50.11.0
532	Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	ssaducli-6.50-11.0.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	6.50.11.0	6.50-11.0
533	Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	cp065588.exe	HPE Smart Array E208e-p SR Gen10 Controller	6.50.11.0	6.50.11.0

6.3 パッケージの変更内容

ROM Flash Firmware Package - System ROM U68

Version: 1.46_08-08-2025 (Recommended)

Important Notes:

- This version of the System ROM contains updates aligned with the Intel GNR MR2.5 updates.
- This version of the System ROM contains updates aligned with Intel Birch Stream GNR MR2.5 BKC.
- This version of the System ROM contains updates aligned with Intel SRF 2S MR2 and 4S PV BKC update.

Problems Fixed:

- Addressed an issue where the system Redfish URIs for BIOS Registry Attribute would include wrong names and strings.
- Addressed an issue where the System ROM/RBSU setting change might not take effect when the System ROM is being updated.
- Addressed an issue where the system might be turned off before booting into RedHat Linux when TPM is hidden.
- Addressed an issue where the system might have unbalanced NUMA node configuration when specific core number is configured and sub-NUMA is enabled.
- Addressed an issue where the mapping between Ethernet Adapter Port and its MAC address might not be correct.
- Addressed an issue where some iLO related features might not be recognized in Windows environments when there is a MR-serious controller installed.
- Addressed an issue where the setting in Intel Speed Select Technology - Performance Profile of RBSU menu might not return to default setting once applied invalid settings.
- Addressed an issue where system time in operating systems might be delayed when the system is under stressful conditions.
- Addressed an issue where the system power cycle action might be incorrect when triggered through IPMI timeout.
- Addressed an issue where the system might encounter UMCE during power-on when a USB mouse is connected.
- Addressed an issue where the number of Boot Retry Count setting of each of network boot device might not take effect.
- Addressed an issue where certain Intel CPU property options in system RBSU might be changed to unexpected values.
- Addressed an issue where the "Negotiated Link Width" value of OCP adapter in system RBSU might be incorrect.
- Addressed an issue where the system might generate the"Failed to set power regulator settings" event when changing the setting to OS control mode.
- Addressed an issue where the options of "Intel Speed Select Technology - Performance Profile" in System Configuration (RBSU) menu might not be configurable.
- Addressed an issue where the "Export Signature" operation in "System Configuration (RBSU) menu >

Server Security > Secure Boot Settings > Advanced Secure Boot Options" might not display and work normally.

- Addressed an issue where the OS (Operating System) system time might shift when the time-zone setting in System Configuration (RBSU) menu is "unspecified time zone".
- Addressed an issue where the system might have incorrect drive storage information shown in the One-Time Boot menu.
- Addressed an issue where the system might encounter RSOD when performing drive encryption without select any drive in "System Configuration (RBSU) > Server Security > Device Encryption Options > Drive Encryption Settings >Encrypted Drives".
- Addressed an issue where the Product Names of DVD Drive might not be displayed in the boot options of System Configuration (RBSU).
- Addressed an issue where the system virtual media might malfunction.
- Addressed an issue where the display content of "System Configuration (RBSU) -> Power and Performance Options -> Advanced Power Options -> Efficiency Latency Control (ELC)" might be incorrect.
- Addressed an issue where the logical drive name of MR controllers might be incorrect in the System Configuration (RBSU) menu.
- Addressed an issue where the "Enhanced C-states" did not gray out after setting the Core C-states to No C-states in "System Configuration (RBSU) > Power and Performance options".

Enhancements:

- Added an new "Mission Critical Mode" option under "System Configuration > BIOS/Platform Configuration (RBSU)> System Options>Server Availability" options. This setting has the following Redfish properties: /redfish/v1/systems/1/bios/settings/MissionCriticalMode.
- Removed "Energy Performance Preference" option from "System Configuration > BIOS/Platform Configuration (RBSU)> Power and Performance" options.
- Removed unsupported option "Intel DMI Link Frequency" from "System Configuration > BIOS/Platform Configuration (RBSU) > Power and Performance Options".
- Added "CPU C1 Auto Demotion" and "CPU C1 Auto UnDemotion" options in "System Configuration > BIOS/Platform Configuration (RBSU) > Power and Performance Options".
- Added "Pre-boot DMA protection" option in "System Configuration > BIOS/Platform Configuration (RBSU) > Virtualization Options".
- Added help description to avoid having wrong configuration values of PPL1 or PPL2.
- Enabled Bifurcation capability support for system OCP slots.

ROM Flash Firmware Package - System ROM U71

Version: 1.46_08-08-2025 (Recommended)

Important Notes:

- This version of the System ROM contains updates aligned with the Intel GNR MR2.5 updates.
- This version of the System ROM contains updates aligned with Intel Birch Stream GNR MR2.5 BKC.
- This version of the System ROM contains updates aligned with Intel SRF 2S MR2 and 4S PV BKC update.

Problems Fixed:

- Addressed an issue where the system Redfish URIs for BIOS Registry Attribute would include wrong names and strings.
- Addressed an issue where the System ROM/RBSU setting change might not take effect when the System ROM is being updated.
- Addressed an issue where the system might be turned off before booting into RedHat Linux when TPM is hidden.
- Addressed an issue where the system might have unbalanced NUMA node configuration when specific core number is configured and sub-NUMA is enabled.
- Addressed an issue where the mapping between Ethernet Adapter Port and its MAC address might not be correct.
- Addressed an issue where some iLO related features might not be recognized in Windows environments when there is a MR-serious controller installed.
- Addressed an issue where the setting in Intel Speed Select Technology - Performance Profile of RBSU menu might not return to default setting once applied invalid settings.
- Addressed an issue where system time in operating systems might be delayed when the system is under stressful conditions.
- Addressed an issue where the system power cycle action might be incorrect when triggered through IPMI timeout.
- Addressed an issue where the system might encounter UMCE during power-on when a USB mouse is connected.
- Addressed an issue where the number of Boot Retry Count setting of each of network boot device might not take effect.
- Addressed an issue where certain Intel CPU property options in system RBSU might be changed to unexpected values.
- Addressed an issue where the "Negotiated Link Width" value of OCP adapter in system RBSU might be incorrect.
- Addressed an issue where the system might generate the"Failed to set power regulator settings" event when changing the setting to OS control mode.
- Addressed an issue where the options of "Intel Speed Select Technology - Performance Profile" in System Configuration (RBSU) menu might not be configurable.
- Addressed an issue where the "Export Signature" operation in "System Configuration (RBSU) menu > Server Security > Secure Boot Settings > Advanced Secure Boot Options" might not display and work normally.
- Addressed an issue where the OS (Operating System) system time might shift when the time-zone setting in System Configuration (RBSU) menu is "unspecified time zone".
- Addressed an issue where the system might have incorrect drive storage information shown in the One-Time Boot menu.
- Addressed an issue where the system might encounter RSOD when performing drive encryption without select any drive in "System Configuration (RBSU) > Server Security > Device Encryption Options > Drive Encryption Settings >Encrypted Drives".

- Addressed an issue where the Product Names of DVD Drive might not be displayed in the boot options of System Configuration (RBSU).
- Addressed an issue where the system virtual media might malfunction.
- Addressed an issue where the display content of "System Configuration (RBSU) -> Power and Performance Options -> Advanced Power Options -> Efficiency Latency Control (ELC)" might be incorrect.
- Addressed an issue where the logical drive name of MR controllers might be incorrect in the System Configuration (RBSU) menu.
- Addressed an issue where the "Enhanced C-states" did not gray out after setting the Core C-states to No C-states in "System Configuration (RBSU) > Power and Performance options".

Enhancements:

- Added an new "Mission Critical Mode" option under "System Configuration > BIOS/Platform Configuration (RBSU)> System Options>Server Availability" options. This setting has the following Redfish properties: /redfish/v1/systems/1/bios/settings/MissionCriticalMode.
- Removed "Energy Performance Preference" option from "System Configuration > BIOS/Platform Configuration (RBSU)> Power and Performance" options.
- Removed unsupported option "Intel DMI Link Frequency" from "System Configuration > BIOS/Platform Configuration (RBSU) > Power and Performance Options".
- Added "CPU C1 Auto Demotion" and "CPU C1 Auto UnDemotion" options in "System Configuration > BIOS/Platform Configuration (RBSU) > Power and Performance Options".
- Added "Pre-boot DMA protection" option in "System Configuration > BIOS/Platform Configuration (RBSU) > Virtualization Options".
- Added help description to avoid having wrong configuration values of PPL1 or PPL2.
- Enabled Bifurcation capability support for system OCP slots.

ROM Flash Firmware Package - System ROM U72

Version: 1.46_08-08-2025 (Recommended)

Important Notes:

- This version of the System ROM contains updates aligned with the Intel GNR MR2.5 updates.
- This version of the System ROM contains updates aligned with Intel Birch Stream GNR MR2.5 BKC.
- This version of the System ROM contains updates aligned with Intel SRF 2S MR2 and 4S PV BKC update.

Problems Fixed:

- Addressed an issue where the system Redfish URIs for BIOS Registry Attribute would include wrong names and strings.
- Addressed an issue where the System ROM/RBSU setting change might not take effect when the System ROM is being updated.
- Addressed an issue where the system might be turned off before booting into RedHat Linux when TPM is hidden.
- Addressed an issue where the system might have unbalanced NUMA node configuration when specific

core number is configured and sub-NUMA is enabled.

- Addressed an issue where the mapping between Ethernet Adapter Port and its MAC address might not be correct.
- Addressed an issue where some iLO related features might not be recognized in Windows environments when there is a MR-serious controller installed.
- Addressed an issue where the setting in Intel Speed Select Technology - Performance Profile of RBSU menu might not return to default setting once applied invalid settings.
- Addressed an issue where system time in operating systems might be delayed when the system is under stressful conditions.
- Addressed an issue where the system power cycle action might be incorrect when triggered through IPMI timeout.
- Addressed an issue where the system might encounter UMCE during power-on when a USB mouse is connected.
- Addressed an issue where the number of Boot Retry Count setting of each of network boot device might not take effect.
- Addressed an issue where certain Intel CPU property options in system RBSU might be changed to unexpected values.
- Addressed an issue where the "Negotiated Link Width" value of OCP adapter in system RBSU might be incorrect.
- Addressed an issue where the system might generate the"Failed to set power regulator settings" event when changing the setting to OS control mode.
- Addressed an issue where the options of "Intel Speed Select Technology - Performance Profile" in System Configuration (RBSU) menu might not be configurable.
- Addressed an issue where the "Export Signature" operation in "System Configuration (RBSU) menu > Server Security > Secure Boot Settings > Advanced Secure Boot Options" might not display and work normally.
- Addressed an issue where the OS (Operating System) system time might shift when the time-zone setting in System Configuration (RBSU) menu is "unspecified time zone".
- Addressed an issue where the system might have incorrect drive storage information shown in the One-Time Boot menu.
- Addressed an issue where the system might encounter RSOD when performing drive encryption without select any drive in "System Configuration (RBSU) > Server Security > Device Encryption Options > Drive Encryption Settings >Encrypted Drives".
- Addressed an issue where the Product Names of DVD Drive might not be displayed in the boot options of System Configuration (RBSU).
- Addressed an issue where the system virtual media might malfunction.
- Addressed an issue where the display content of "System Configuration (RBSU) -> Power and Performance Options -> Advanced Power Options -> Efficiency Latency Control (ELC)" might be incorrect.
- Addressed an issue where the logical drive name of MR controllers might be incorrect in the System Configuration (RBSU) menu.
- Addressed an issue where the "Enhanced C-states" did not gray out after setting the Core C-states to No

C-states in "System Configuration (RBSU) > Power and Performance options".

Enhancements:

- Added an new "Mission Critical Mode" option under "System Configuration > BIOS/Platform Configuration (RBSU)> System Options>Server Availability" options. This setting has the following Redfish properties: /redfish/v1/systems/1/bios/settings/MissionCriticalMode.
- Removed "Energy Performance Preference" option from "System Configuration > BIOS/Platform Configuration (RBSU)> Power and Performance" options.
- Removed unsupported option "Intel DMI Link Frequency" from "System Configuration > BIOS/Platform Configuration (RBSU) > Power and Performance Options".
- Added "CPU C1 Auto Demotion" and "CPU C1 Auto UnDemotion" options in "System Configuration > BIOS/Platform Configuration (RBSU) > Power and Performance Options".
- Added "Pre-boot DMA protection" option in "System Configuration > BIOS/Platform Configuration (RBSU) > Virtualization Options".
- Added help description to avoid having wrong configuration values of PPL1 or PPL2.
- Enabled Bifurcation capability support for system OCP slots.

Hitachi Online ROM Flash Firmware Package - iLO 7

Version: 1.17

Problems Fixed:

- Fixed an issue where there was no VSP output on DL360 Gen11 iLO6 due to stack overflow on VSP log buffer handling.
- Fixed an issue where the fan speed was not set as per the thermal configuration due to server device discovery not reaching vMainDeviceDiscoveryComplete.
- Fixed an issue that did not allow to enable mTLS for subscription and returned error in loading client private key.
- Fixed an issue where param2 check-in challenge_auth response for NVIDIA adapter failed during SPDM authentication.
- Fixed an issue where the Kerberos client advertised insecure encryption (RC4, DES) types and rejected the deprecated ones. As a part of this fix, RC4, DES, and 3DES algorithms are removed from the Kerberos requests.
- Fixed an issue where the MCTP retry mechanism in i2c communication failed.
- Fixed an issue where a low value of the iLO reset progress bar time caused mismatch in the configuration during the iLO reset time.
- Fixed an issue where the IPMI fan's pwm values were set to a default of 255 to calculate dutycycle percentage.
- Fixed an issue with the time delay between retries for PCIe VDM transmit buffer.
- Fixed an issue for the sensor values that were reported in the GET_SENSOR response though these sensors were marked as non-supported in the PDR table.
- Fixed a BundleUpdate issue for Smart components of size greater than 32MB size.

- Fixed an issue where iLO RIBCL queries generated incorrect CAPACITY VALUE responses.
- Fixed an issue where fetching the email details of LDAP user where DistinguishedName containing special characters were causing the two-factor authentication process to fail.
- Fixed the cpqHoMIBStatusArray status issue that did not get updated with proper details when a drive attached to Smart Array P408i-a SR controller failed or degraded.

Enhancements:

- Replaced references of SSL to TLS for both UI and Redfish API responses.
- Support for ECDSA P384 keys across all iLO security modes for TLS connections. The default RSA key size for iLO CSR generation is increased to 4096 bits.
- Support for volume creation and deletion on iLO WebUI.
- Support for 5-minute idle timeout on iLO sessions.
- Enabled iLO SPDM authentication for PSU.
- NVMe-MI firmware update supported by iLO.
- Support for NS204i-u v2 Boot Controller and NS204i-u v2 Boot Controller with SED Support.
- Power on and Bundle updates will be restricted if Liquid cooling leakage is detected.
- Enabled Gen12 BMC support for LLDP on the iLO dedicated port and host NIC ports.
- Support added to keep the iLO LDAP session to remain active and to avoid network timeouts when the LDAP server timeout setting is configured to 45 seconds or more in LDAP server. The default LDAP server timeout setting is 9000 seconds.
- Support added for windbg_enable SSH CLI command.
- Support added to enable or disable Virtual Serial Port (VSP) from iLO GUI and Redfish interfaces.
- Added support for importing CA certificate chains for CAC authentication (maximum 6 CA certificates). Certificates must be imported in order, beginning with the issuer of the user certificate and continuing up the chain to the root certificate.
- Enhanced to support rendering of iLO UI across multiple screens and browsers.
- Enhancement to have better user experience while changing the source of time settings on the RTC page.

Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022

Version: 233.0.148.0 (Recommended)

Important Note!

HPE recommends the firmware provided in Broadcom Firmware Package for BCM5741x, BCM5750x and BCM5760x adapters, version 233.1.135.7 or later, for use with this driver.

Fixes

This product fixes issue where packet drops is seen when jumbo frame is enabled.

Enhancements

This product enhances to improve user mode RDMA abortive cleanup.This product enhances FW logging to host to work across device reset.

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 NetXtreme-E Driver for Microsoft Windows Server 2025

Version: 233.0.148.0 (B) (Recommended)

Important Note!

HPE recommends the firmware provided in Broadcom Firmware Package for BCM5741x, BCM5750x and BCM5760x adapters, version 233.1.135.7 or later, for use with this driver.

Enhancements

This product now supports Azure Local 24H2.

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 1Gb Driver for Windows Server x64 Editions

Version: 221.0.8.0 (B) (Recommended)

Important Note!

HPE recommends the firmware provided in HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.4.5.0 or later, for use with this driver.

Enhancements

This product now supports Azure Local 24H2.

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

HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9

Version: 1.10.3-233.0.152.2 (Recommended)

Important Note!

HPE recommends the HPE Broadcom NetXtreme-E Firmware Version, 233.1.135007 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 fixes issue where hwrm failure while running ethtool reset.o This product fixes issue where incorrect GSO type reporting in HW-GRO. (Generic Receive Offload)

Enhancements

This product enhances to create per PF worker thread to process Async events.This product enhances to Improve driver init in kdump kernel.This product enhances to handle FW recovery when bond mode is present.

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

HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0

Version: 2025.05.00 (Recommended)

Important Note!

HPE recommends the HPE Broadcom NetXtreme-E Firmware Version, 233.1.135007 or later, for use with this driver.

Fixes

This product fixes the issue where ESXi Datastore not seen when NPAR is enabled.This product fixes the issue where PSOD is seen when enable NPAR using 2 NICs.

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

HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0

Version: 2025.05.00 (Recommended)

Important Note!

HPE recommends the HPE Broadcom NetXtreme-E Firmware Version, 233.1.135007 or later, for use with this driver.

Fixes

This product fixes the issue where ESXi Datastore not seen when NPAR is enabled.This product fixes the

issue where PSOD is seen when enable NPAR using 2 NICs.

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

HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 4.

Version: 233.0.152.2 (Optional)

Prerequisites

HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9, version 1.10.3-233.0.152.2 or later, must be installed before installing this product.

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

Fixes

- This product fixes issue where In HW LAG mode 1 with Port1 link down, RX packet and byte counters in the VM do not increment during VF-to-VF RoCE traffic.
- This product fixes issue where Active CQ value differs between debugfs and rdma resource show.
- This product fixes issue where in existing sysfs counters.
- This product fixes issue where header file inclusion.

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

HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 5.

Version: 233.0.152.2 (Optional)

Prerequisites

HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9, version 1.10.3-233.0.152.2 or later, must be installed before installing this product.

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

Fixes

- This product fixes issue where In HW LAG mode 1 with Port1 link down, RX packet and byte counters in the VM do not increment during VF-to-VF RoCE traffic.
- This product fixes issue where Active CQ value differs between debugfs and rdma resource show.

・This product fixes issue where in existing sysfs counters.

・This product fixes issue where header file inclusion.

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

HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 9

Version: 3.139t-1 (Recommended)

Important Note!

HPE recommends the firmware provided in HPE NX1 Broadcom Online Firmware Upgrade Utility for Linux x86_64, version 2.41.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.

Fixes

This product fixes issue where link disconnected with the latest Out-of-Box (OOB) Driver.

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

HPE Intel iavf Drivers for Red Hat Enterprise Linux 9

Version: 4.13.14-1 (Recommended)

Important Note!

Intel Firmware Package For E810, version 4.80 or later for use with these drivers.

Fixes

This product fixes default number of queues to resolve RSS issues.

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

HPE Mellanox RoCE ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)

Version: 25.04-0.6.1.1 (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/).

Fixes

The following issues have been fixed in version 25.04-0.6.1.1:

- Buffer initialization became a performance bottleneck during the allocation of large buffers, typically when using a high number of QPs with large message sizes. The root cause was the inefficient use of rand(). This has been resolved by replacing it with a faster pseudo-random algorithm.
- A potential deadlock that could occur during the handling of peer memory registration failures.
- The following error occurred when switching to SwitchDev mode: "mlx5_core 0000:03:00.0: mlx5_cmd_out_err:835:(pid 24362): CREATE_FLOW_GROUP(0x933) op_mod(0x0) failed, status bad parameter(0x3), syndrome (0x4065f0), err(-22); mlx5_core 0000:03:00.0: E-Switch: Failed to create peer miss flow group err(-22)"
- A sysfs issue that occurred when accessing hardware counters from within a namespace.
- "ibstat" would fail and crash when encountering a non-RoCE/IB device, preventing it from displaying information for the remaining valid RoCE/IB devices.
- Bandwidth degradation in cases of high number of QPs, where polling only 16 CQEs per iteration may not be sufficient to process all completions in time.
- A race condition between firmware syndrome report and driver initialization during boot.
- The driver failed to load when a firmware syndrome was detected during boot.
- The mlnx_tune -l command did not list several operating systems that were in fact supported.
- The kernel did not define TCA_TUNNEL_KEY_ENC_SRC_PORT. To align offload behavior with non-offload, the OVS community introduced a commit (netdev-offload-tc: Fix offload of tunnel key tp_src) that causes offload to fail if this tunnel attribute is used. Now, any rule with a tunnel set action that includes a tunnel source port can no longer be offloaded.
- LLDP traffic from VFs or BF host PFs was not reaching the representor kernel interfaces.
- Flows where both the inner and outer destination (dst) and/or source (src) MAC addresses were

rewritten to the same value, the outer MAC address rewrite was ignored, leading to an outer MAC address of 00:00:00:00:00:00.

- Enabling sFlow with OVN caused OVS to crash.
- OVS crashed unexpectedly after DPUs repeatedly broadcast the error message “packet with own source address.”
- Changing the hw-offload setting from true to false while ports were configured led to errors reported in the OVS log.

Enhancements

The following new features and changes have been included in version 25.04-0.6.1.1:

- Trust Lockdown Health Syndrome: Added a new health syndrome for trust lockdown and expose the CRR bit in the health buffer. When the CRR bit is set, it indicates that the syndrome requires a cold reset for recovery.
- A Single PTP Device per Hardware Clock: PHC is typically shared across multiple functions. Currently, the driver creates a separate PTP device for each network interface sharing the same PHC, resulting in redundancy and added complexity. To address this, a single PTP device is now created to represent the shared PHC when operating in real-time mode.
- Log IB State Transitions: Enhanced visibility into IB device state transitions by adding log messages to the kernel log (dmesg). Each time an IB device changes state, a corresponding message will be logged. For example: "mlx5_0: Port: 1 Link DOWN".
- Optional-counters Binding Support and New Packets/bytes Counters: Previously, optional counters were available only on a per-link basis. This release introduces the ability to bind optional counters to a specific counter object, enabling users to track optional counters across a specific QP group. Support is provided for both automatic and manual binding modes. In both cases, the optional counters that are bound to the QP are those currently configured on the link at the time of binding. Additionally, four new optional counters that track RDMA ingress and egress traffic are introduced: rdma_tx_bytes; rdma_tx_packets; rdma_rx_bytes; rdma_rx_packets. This functionality is exposed to users via the iproute2 package, which must be updated to support this feature.
- User CAPability (UCAP) API: The User CAPability (UCAP) API introduces a mechanism for creating user contexts with specific firmware privileges. It offers fine-grained control over firmware features by exposing each capability as a character device with root-level read-write access. Root processes can grant users these privileges by allowing access to the corresponding character devices. When a user context is created using a UCAP file descriptor, it inherits the associated privileges. For mlx5, two UCAP character devices are provided, and any user context opened with at least one of them is treated as privileged. To guarantee the execution of privileged commands, non-privileged commands are restricted when a privileged user is active on the device.

Supported Devices and Features

SUPPORTED KERNELS: The kernels of Red Hat Enterprise Linux 9 update 5 (x86_64) supported by this binary rpm are:

- 5.14.0-503.11.1 (x86_64) and future update kernels.

Intel ice Drivers for Red Hat Enterprise Linux 9

Version: 1.17.8-1 (Recommended)

Important Note!

HPE recommends the firmware provided in Intel Firmware Package For E810, version 4.80 or later for use with these drivers.

Fixes

This product fixed an issue where the 'ethtool ethx' displayed 'AUI' with AOC cable, should display 'Fibre'.

Enhancements

This product now supports Red Hat Enterprise Linux 9.6.This product now supports Software Cross Timestamping feature for E810.

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: 1.17.72.0 (Recommended)

Important Note!

HPE recommends the firmware provided in Intel Firmware Package for Columbiaville (FWPKG), version 4.80 or later, for use with this driver.

Fixes

This product fixes an issue where the bugcheck D1 occurs when in the Jumbo frame scenario.This product fixes an issue where the VM traffic may not working when VF driver disabled or not installed.

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 Microsoft Windows Server 2025

Version: 1.17.73.0 (Recommended)

Important Note!

HPE recommends the firmware provided in Intel Firmware Package for Columbiaville (FWPKG), version 4.80 or later, for use with this driver.

Fixes

This product fixes an issue where the bugcheck D1 occurs when in the Jumbo frame scenario.This product fixes an issue where the VM traffic may not working when VF driver disabled or not installed.

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 8.0

Version: 2025.05.00 (Recommended)

Important Note!

HPE recommends the firmware provided in Intel Firmware Package For E810 Ethernet Adapter, version 4.71 or later, for use with these drivers.

Fixes

This product fixes to align DDP with the new FW version and NVM 4.7.

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 9.0

Version: 2025.05.00 (Recommended)

Important Note!

HPE recommends the firmware provided in Intel Firmware Package For E810 Ethernet Adapter, version 4.71 or later, for use with these drivers.

Fixes

This product fixes to align DDP with the new FW version and NVM 4.7.

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 2022

Version: 25.4.26768.0 (Recommended)

Fixes

This product fixed an issue that could cause a BSOD during the suspend/resume process when the firmware is not functional.This product fixed an issue where "Mlx5Cmd -Stat" displayed incorrect physical location information on multi-segment PCI machines when the adapter was disabled.This product fixed an issue where Event 399 displayed incorrect information.This product fixed an issue that triggered Error events 410 and 304 when enabling or disabling pktmon on an adapter operating in VMQ/SR-IOV mode.

Enhancements

Added support for the DOCA Telemetry Library on Windows.

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 2025

Version: 25.4.26768.0 (Recommended)

Fixes

This product fixed an issue that could cause a BSOD during the suspend/resume process when the

firmware is not functional.This product fixed an issue where "Mlx5Cmd -Stat" displayed incorrect physical location information on multi-segment PCI machines when the adapter was disabled.This product fixed an issue where Event 399 displayed incorrect information.This product fixed an issue that triggered Error events 410 and 304 when enabling or disabling pktmon on an adapter operating in VMQ/SR-IOV mode.

Enhancements

Added support for the DOCA Telemetry Library on Windows.

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

Intel QuickAssist Technology driver for Microsoft Windows

Version: 2.5.0.13 (B) (Recommended)

Enhancements

- Updated Supported Environments

HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 8.0

Version: 2025.09.01 (Recommended)

Important Note!

- Actual Version is 7.732.04.00

Fixes

- Fix a00145710en_us: HPE MR Gen11 and Gen10 Plus Storage Controllers - Purple Screen of Death (PSOD) May Be Observed When Updating Controller Firmware Via Service Pack for ProLiant (SPP) in Remote Deployment Mode With a VMware ESXi OS

HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 9.0

Version: 2025.09.01 (Recommended)

Important Note!

- Actual Version is 7.732.04.00

Fixes

- Fix a00145710en_us: HPE MR Gen11 and Gen10 Plus Storage Controllers - Purple Screen of Death (PSOD) May Be Observed When Updating Controller Firmware Via Service Pack for ProLiant (SPP) in Remote Deployment Mode With a VMware ESXi OS

HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver for 64-bit Red Hat Enterprise Linux 9

Version: 07.732.03.00 (Recommended)

Fixes

Fix a potential mutex deadlock between reset and event handling thread. The issue may happen when there is heavy IO, device add/delete and SCSI rescan running in the same time.

Enhancements

Verified the UNMAP command and confirmed that the Block Limits VPD page data is correct with the latest firmware.

HPE MR416i-p, MR416i-a, MR216i-p, MR216i-a Gen10p Controllers and MR416i-o, MR416i-p, MR216i-o, MR216i-p, MR408i-o , MR408i-p Gen11 Controllers driver for Microsoft Windows 2025 edition

Version: 7.732.3.0 (Recommended)

Fixes

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

Version: 2025.10.01 (Recommended)

Important Note!

- Actual ESXi8.0 driver version is 80.4862.0.104 It is strongly recommended to use controller firmware version 7.81 for SR SAS/SATA controllers and firmware version 03.01.41.032 for SR tri-mode controllers, along with Windows driver version 1016.24.0.1002, Linux driver version 2.1.36-026, and VMware ESXi driver version 4862.0.104, as this combination has been fully qualified.

Fixes

Fixed PSOD indicates a divide-by-zero happened.Fixed an issue where the driver's controller structure field was too small for the full ASCII firmware version.Fixed an issue where a message from a periodic check on the controller heartbeat appeared as a system error instead of an informational message.Fixed an issue where firmware versioning information was incorrect or blank on some of the controllers.

HPE ProLiant Gen10 Smart Array and Gen10 Plus and Gen11 Smart RAID Controller Driver for VMware vSphere 9.0 (Driver Component).

Version: 2025.09.01 (Recommended)

Important Note!

- Actual ESXi9.0 driver version is 90.4862.0.104 It is strongly recommended to use controller firmware version 7.81 for SR SAS/SATA controllers and firmware version 03.01.41.032 for SR tri-mode controllers, along with Windows driver version 1016.24.0.1002, Linux driver version 2.1.36-026, and VMware ESXi driver version 4862.0.104, as this combination has been fully qualified.

Fixes

Fixed PSOD indicates a divide-by-zero happened.Fixed an issue where the driver's controller structure field was too small for the full ASCII firmware version.Fixed an issue where a message from a periodic check on the controller heartbeat appeared as a system error instead of an informational message.Fixed an issue where firmware versioning information was incorrect or blank on some of the controllers.

HPE Smart Array Gen10, Gen10Plus and Gen11 Controller Driver for Windows Server 2019, Windows Server 2022 and Windows Server 2025

Version: 1016.24.0.1002 (Recommended)

Important Note!

It is strongly recommended to use controller firmware version 7.81 for SR SAS/SATA controllers and firmware version 03.01.41.032 for SR tri-mode controllers, along with Windows driver version 1016.24.0.1002, Linux driver version 2.1.36-026, and VMware ESXi driver version 4862.0.104, as this combination has been fully qualified.

Fixes

Fixed an issue related to the upcoming "Driver isolation" requirement for Windows@ Server 2025 security.

Enhancements

Added support for NVMe admin passthru requests.

MR416i-p, MR416i-a, MR216i-p, MR216i-a Gen10p Controllers and MR416i-o, MR416i-p, MR216i-o, MR216i-p, MR408i-o , MR408i-p Gen11 Controllers driver for Microsoft Windows 2022 edition

Version: 7.732.3.0 (Recommended)

Fixes

Fix an issue that system may crash when importing Logical Drive.

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

Version: 14.4.393.20 (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 SN1620E 32Gb Dual port Fibre Channel Secure Host Bus Adapter
- HPE SN1720E 64Gb Dual port Fibre Channel Secure Host Bus Adapter

HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2025

Version: 14.4.393.20 (b) (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 SN1620E 32Gb Dual port Fibre Channel Secure Host Bus Adapter
- HPE SN1720E 64Gb Dual port Fibre Channel Secure Host Bus Adapter

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

Version: 9.4.11.20 (Recommended)

Important Note!

This component is supported only on Gen12 ProLiant servers.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 9.4.11.20

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 Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2025

Version: 9.4.11.20 (b) (Recommended)

Important Note!

This component is supported only on Gen12 ProLiant servers.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 9.4.11.20

Supported Devices and Features

・HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter

・HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter

Red Hat Enterprise Linux 9 Update 5 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapter

Version: 14.4.473.24 (Recommended)

Important Note!

This component is supported only on Gen12 ProLiant servers.

Release notes:

Broadcom Release notes

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

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

For more information please refer to the Knowledge Base at:

https://www.suse.com/support/kb/doc/?id=000019640

Updated to driver version 14.4.473.24

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 14.4.473.24

Supported Devices and Features

Version: 10.02.14.00-k1 (Recommended)

Important Note!

This component is supported only on Gen12 ProLiant servers.1. The rpm base-name for the QLogic driver

has been changed to "qlgc". Upgrades from the earlier "hpqlgc" driver are supported.

Prerequisites

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

Enhancements

Updated Driver version 10.02.14.00-k1

Supported Devices and Features

- HPE SN1620E 32Gb Dual port Fibre Channel Secure Host Bus Adapter
- HPE SN1720E 64Gb Dual port Fibre Channel Secure Host Bus Adapter

iLO 7 Automatic Server Recovery Driver for Microsoft Windows Server 2022 and 2025

Version: 4.8.0.0 (D) (Optional)

Enhancements

- Updated Support Platform

iLO 7 Channel Interface Driver for Microsoft Windows Server 2022 and 2025

Version: 4.8.0.0 (D) (Optional)

Enhancements

- Updated Supported Platform

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

Version: 9.15.1.268 (E) (Optional)

Enhancements

- Updated Supported Environments

Matrox G200eH5 Video Controller Driver for Microsoft Windows Server 2022 and 2025

Version: 9.15.1.271 (C) (Optional)

Enhancements

- Updated Supported Products

Broadcom Firmware Package for BCM5741x adapters

Version: 233.1.135.7 (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 233.0.148.0 or later

・HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-233.0.152. or later

・HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.05.00 or later

Fixes

This product fixes an issue where the AssignablePhysicalNetworkPorts hyperlink under NetworkDeviceFunctions was not expanded correctly with Redfish expand queries.This product fixes an issue where the adapter did not correctly report all supported link speeds (1G/10G/25G) via ethtool.This product fixes an issue where Broadcom NXE NICs could overheat and become unrecognized when MCTP was disabled.

Supported Devices and Features

This product supports the following network adapters:

Broadcom Firmware Package for BCM5750x adapters

Version: 233.1.135.7 (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 233.0.148.0 or later

・HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-233.0.152.2 or later

・HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.05.00 or later

Fixes

This product fixes an issue where the AssignablePhysicalNetworkPorts hyperlink under NetworkDeviceFunctions was not expanded correctly with Redfish expand queries.This product fixes an issue where the adapter did not correctly report all supported link speeds (1G/10G/25G) via ethtool.

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 Firmware Package for BCM57608 100GbE 2p Adapter

Version: 233.1.135.7 (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 233.0.148.0 or later

・HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-233.0.152.2 or later

・HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.05.00 or later

Fixes

This product fixes an issue where firmware updates failed when using the UEFI-FMP update method.This product fixes an issue where the AssignablePhysicalNetworkPorts hyperlink under NetworkDeviceFunctions was not expanded correctly with Redfish expand queries.This product fixes an issue where the adapter did not correctly report all supported link speeds (1G/10G/25G) via ethtool.

Supported Devices and Features

This product supports the following network adapters:

Broadcom Firmware Package for BCM57608 100GbE 2p OCP3 Adapter

Version: 233.1.135.7 (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 233.0.148.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-233.0.152. or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.05.00 or later

Fixes

This product fixes an issue where firmware updates failed when using the UEFI-FMP update method.This product fixes an issue where the AssignablePhysicalNetworkPorts hyperlink under NetworkDeviceFunctions was not expanded correctly with Redfish expand queries.This product fixes an issue where the adapter did not correctly report all supported link speeds (1G/10G/25G) via ethtool.

Supported Devices and Features

This product supports the following network adapters:

Broadcom NX1 Firmware Package for BCM5719 adapter

Version: 20.33.41 (Recommended)

Important Note!

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

Fixes

This product fixes where MBA configuration reset to defaults after updating firmware.

Supported Devices and Features

This product supports the following network adapter:

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

Broadcom NX1 Firmware Package for BCM5719 OCP3 adapter

Version: 20.33.41 (Recommended)

Important Note!

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

Fixes

This product fixes where MBA configuration reset to defaults after updating firmware.

Supported Devices and Features

This product supports the following network adapter:

・Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE

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

Version: 4.80 (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 1.17.72.0 or later

・Intel ice Drivers for Linux, version 1.17.8-1 or later

・Intel icen Driver for VMware, version 2025.05.00 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 fixes an issue where the Port Reset attributes are missing under RDE port Schema.This product fixes an issue where the link failed with the LCP-1250RJ3SR-KH transceiver.This product fixes an issue where the FW PLDM upgrade may failed with CVL4.71 when MCTP traffic loading is heavy.This product fixes an issue where the BSOD(0x7e) observed in Windows OS with OOB driver.

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: 4.80 (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 1.17.72.0 or later

・Intel ice Drivers for Linux, version 1.17.8-1 or later

・Intel icen Driver for VMware, version 2025.05.00 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 fixes an issue where the Port Reset attributes are missing under RDE port Schema.This

product fixes an issue where the link failed with the LCP-1250RJ3SR-KH transceiver.This product fixes an issue where the FW PLDM upgrade may failed with CVL4.71 when MCTP traffic loading is heavy.This product fixes an issue where the BSOD(0x7e) observed in Windows OS with OOB driver.

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: 4.80 (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 1.17.72.0 or later

・Intel ice Drivers for Linux, version 1.17.8-1 or later

・Intel icen Driver for VMware, version 2025.05.00 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 fixes an issue where the Port Reset attributes are missing under RDE port Schema.This product fixes an issue where the link failed with the LCP-1250RJ3SR-KH transceiver.This product fixes an issue where the FW PLDM upgrade may failed with CVL4.71 when MCTP traffic loading is heavy.This product fixes an issue where the BSOD(0x7e) observed in Windows OS with OOB driver.

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: 4.80 (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 1.17.72.0 or later

・Intel ice Drivers for Linux, version 1.17.8-1 or later

・Intel icen Driver for VMware, version 2025.05.00 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 fixes an issue where the Port Reset attributes are missing under RDE port Schema.This product fixes an issue where the link failed with the LCP-1250RJ3SR-KH transceiver.This product fixes an

issue where the FW PLDM upgrade may failed with CVL4.71 when MCTP traffic loading is heavy.This product fixes an issue where the BSOD(0x7e) observed in Windows OS with OOB driver.

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: 4.80 (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 1.17.72.0 or later

・Intel ice Drivers for Linux, version 1.17.8-1 or later

・Intel icen Driver for VMware, version 2025.05.00 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 fixes an issue where the Port Reset attributes are missing under RDE port Schema.This product fixes an issue where the link failed with the LCP-1250RJ3SR-KH transceiver.This product fixes an issue where the FW PLDM upgrade may failed with CVL4.71 when MCTP traffic loading is heavy.This product fixes an issue where the BSOD(0x7e) observed in Windows OS with OOB driver.

Supported Devices and Features

This product supports the following network adapters:

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

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

Version: 26.45.1020 (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

The following issues have been fixed in version 26.45.1020:Configuring PHY_RATE_MASK for 10G in NV settings incorrectly disabled 10G capabilities.RTT packets with any destination MAC address were incorrectly treated as having a valid destination MAC. The new firmware now discards RTT packets if their destination MAC does not match the port's MAC.

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

No new features and changes have been included in version 26.45.1020.

Supported Devices and Features

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

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

Version: 26.45.1020 (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

The following issues have been fixed in version 26.45.1020:Configuring PHY_RATE_MASK for 10G in NV settings incorrectly disabled 10G capabilities.RTT packets with any destination MAC address were

incorrectly treated as having a valid destination MAC. The new firmware now discards RTT packets if their destination MAC does not match the port's MAC.

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.

No new features and changes have been included in version 26.45.1020.

Supported Devices and Features

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

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR/Ethernet 400Gb 1-port OSFP PCIe5 x16 MCX75310AAS-NEAT Adapter : HPE part numbers P45641-B23 and P45641-H23

Version: 28.45.1200 (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/connectx7firmwarev28451200/known+issues

Fixes

The following fixes have been included in version 28.45.1200:

・Fixed DC InfiniBand functionality.

Enhancements

New features and changes included in version 28.45.1200:

・Introduced a 1ms delay for SPDM responses.

Supported Devices and Features

HPE Part Number	NVIDIA VPI Adapter	PSID
P45641-B23	HPE InfiniBand NDR/Ethernet 400Gb 1-port OSFP PCIe5 x16 MCX75310AAS-NEAT Adapter (P45641-B23 and P45641-H23)	MT_0000001120

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR200/Ethernet 200Gb 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Adapter : HPE part numbers P45642-B22 and P45642-H22

Version: 28.45.1200 (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/connectx7firmwarev28451200/known+issues

Prerequisites

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

Fixes

The following fixes have been included in version 28.45.1200:

・Fixed DC InfiniBand functionality.

Enhancements

New features and changes included in version 28.45.1200:Introduced a 1ms delay for SPDM responses.

Supported Devices and Features

HPE Part Number	NVIDIA VPI Adapter	PSID
P45642-B22	HPE InfiniBand NDR200/Ethernet 200Gb 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Adapter (P45642-B22 and P45642-H22)	MT_0000001119

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR200/Ethernet 200GbE 2-port QSFP112 PCIe5 x16 MCX755106AC-HEAT Adapter : HPE part numbers P65333-B21 and P65333-H21

Version: 28.45.1200 (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/connectx7firmwarev28451200/known+issues

Fixes

The following fixes have been included in version 28.45.1200:

- Fixed DC InfiniBand functionality.

Enhancements

New features and changes included in version 28.45.1200:

- Introduced a 1ms delay for SPDM responses.

Supported Devices and Features

HPE Part Number	NVIDIA VPI Adapter	PSID
P65333-B21	HPE InfiniBand NDR200/Ethernet 200GbE 2-port QSFP112 PCIe5 x16 MCX755106AC-HEAT Adapter (P65333-B21 and P65333-H21)	MT_0000001108

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

Version: 22.45.1020 (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

The following issues have been fixed in version 22.45.1020:PCC_CNP_COUNT could not be reset using the pcc_counter.sh script in the DOCA tools.VQoS algorithm issue related to learning when an element is active and when it begins sending traffic.A race condition that would prevent the application from transmitting when VQoS was enabled.Bandwidth would drop when unbinding multiple VFs with VQoS

enabled.RTT packets with any destination MAC address were incorrectly treated as having a valid destination MAC. The new firmware now discards RTT packets if their destination MAC does not match the port's MAC.

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.

No new features and changes have been included in version 22.45.1020.

Supported Devices and Features

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

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

Version: HPK1 (Recommended)

Important Note!

There is a new FW HPK5 to fix a critical issue, here is the advisory in more detail.o Advisory: HPE SSD - CUSTOMER ACTION REQUIRED to Prevent Potential System "No Boot" Error When SPDM Is Enabled on Certain Models of SSDs

- Advisory: (Revision) HPE Server Platforms - Firmware Update Recommended -With Small Form Factor (SFF) NVMe Solid State Drive (SSD) Firmware Versions Prior To HPK5, the Drive May Fail and Become Inaccessible

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 - MO001600KYFFF, MO003200KYFET, MO006400KYFEU, VO001920KYFFE, VO003840KYFEP, VO007680KYFEQ and VO015360KYFER

Version: HPK2 (Recommended)

Important Note!

Upgrading from HPK1 to HPK2 requires power cycle.

Fixes

This is a maintenance release that contains code fix improvements and drive function enhancements. Upgrading from HPK1 to HPK2 requires power cycle.

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: HPK5 (Recommended)

Fixes

This FW update contains the fix for false ILO message of temporary drive "degraded" status.

Universal Firmware Package for Drives - VR000960YYXPR

Version: HPK2 (Recommended)

Fixes

RSOD issue fixed. RSOD was occurred during server power-on if enable the VROC.

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: HPK5 (Recommended)

Fixes

HPK5 is a planned maintenance release that follows HPK2. This is a recommended FW release that provides bug fixes for the 4K IU Solid State Drives.Noted this FW change require a system power cycle after installation for it to take effect.

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 - MO001600KXVYH, MO003200KXVZD, MO006400KXVZE, VO001920KXVYF, VO003840KXVZA, VO007680KXVZB and VO015360KXVZC

Version: HPK3 (Recommended)

Fixes

- Fix for PCIe link length drop in AMD x2 system configuration
- Fix for drive detection after hot re-insert on Windows
- Fix for other regular FW patch release

Universal Firmware Package for Drives - MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO001920KYDMT, VO003840KYDMV, VO007680KYDNA and VO015360KYDNB

Version: HPK6 (Recommended)

Fixes

FW HPK5 may cause Uncorrectable Machine Check Exception (UMCE) to occur. It is recommended to update FW to HPK6.

Universal Firmware Package for Drives - MO001600YXUJB, MO003200YXUJC, MO006400YXUJD, VO001920YXUHU, VO003840YXUHV and VO007680YXUJA

Version: HPK3 (Recommended)

Fixes

- Fix for PCIe link length drop in AMD x2 system configuration
- Fix for drive detection after hot re-insert on Windows
- Fix for other regular FW patch release

Universal Firmware Package for Drives - MV001600LYCBT, MV003200LYCBA, MV006400LYCBB, VV015360LYHDC, VV001920LYCBR, VV003840LYCAU and VV007680LYCAV

Version: HPK3 (Recommended)

Fixes

The FW address: PCIe link drop and 0ther regular FW patches release.

Universal Firmware Package for Drives - MV003200KYFFK, MV006400KYFFA, MV012800KYFFB, VV003840KYFFH, VV007680KYFFL and VV015360KYFEV

Version: HPK3 (Recommended)

Fixes

This is a maintenance release that contains code fix improvements and drive function enhancements.

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

Version: HPK7 (Recommended)

Fixes

・Regular FW maintenance for fixing MCU,sanitize, DRAM and log page..etc.

Universal Firmware Package for Drives - VR000480KXNXE,VR000960KXNZU and VS001920KXNXF

Version: HPK4 (Recommended)

Fixes

Changes and improvements that have been made in the firmware HPK4 which disable MCTP over PCIe VDM over the previous firmware.

Universal Firmware Package for Drives - VV001920LYDTT, VV003840LYDTU and VV007680LYDTV

Version: HPK6 (Recommended)

Fixes

To eliminate the risk of gen drop issue.

Universal Firmware Package for Drive - MB016000JWXKH

Version: HPDC (Recommended)

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.

Universal Firmware Package for Drives - MB006000JWZVQ and MB008000JWZVR

Version: HPD3 (B) (Recommended)

Fixes

Remove ROM flash way from this FWPKG.

Universal Firmware Package for Drives - EG000600JWJNP, EG000600JXLVV, EG001200JWJNQ, EG001200JXLWA and EG001200MXJQU

Version: HPD9 (Recommended)

Fixes

Regular FW maintenance release.

Universal Firmware Package for Drives - EG001800JWJNR, EG001800JXLWB, EG002400JWJNT, EG002400JXLWC and EG002400MXJQT

Version: HPDB (Recommended)

Fixes

- Fixes the Firmware version HPDB adds compatibility with the latest NAND generation for continuity of supply.

Universal Firmware Package for Drives - MB001000JWWPV, MB002000JWWQA and MB004000JWWQB

Version: HPD8 (Recommended)

Fixes

Remove ROM flash way from this FWPKG.

Universal Firmware Package for Drives - MB002000JYDNE and MB004000JYDPB

Version: HPD6 (Recommended)

Fixes

Firmware changes aligned for future FIPS code release and one assert fix.

Universal Firmware Package for Drives - MB004000JWZVU

Version: HPD3 (B) (Recommended)

Fixes

Remove ROM flash way from this FWPKG.

Universal Firmware Package for Drives - MB006000JYDNF, MB008000JYDPC and MB010000JYDNH

Version: HPD5 (Recommended)

Fixes

Firmware changes aligned for future FIPS code release and one assert fix.

Universal Firmware Package for Drives - MB008000JWWQP and MB006000JWWQN

Version: HPD8 (Recommended)

Fixes

Remove ROM flash way from this FWPKG.

Universal Firmware Package for Drives - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE

Version: HPD4 (Recommended)

Fixes

Remove ROM flash way from this FWPKG.

Universal Firmware Package for Drives - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN

Version: HPD6 (Recommended)

Fixes

A Drive Firmware enhancement has been made for Primera 600 products to reduce the probability of infrequent, unexpected power loss on some backed drives.

Universal Firmware Package for Drives - MB014000JXUCC

Version: HPD4 (Recommended)

Fixes

Remove ROM flash way from this FWPKG.

Universal Firmware Package for Drives - MB016000JXLBA and MB018000JXLAU

Version: HPD3 (Recommended)

Fixes

Remove ROM flash way from this FWPKG.

Universal Firmware Package for Drives - MB018000JXMTH and MB020000JXMTP

Version: HPD3 (Recommended)

Fixes

・Assert fixes, current firmware improvements and bug fixes.

Universal Firmware Package for Drives - MB12000JYESN, MB16000JYEVC, MB20000JYEVD

Version: HPD1 (B) (Recommended)

Fixes

Remove ROM flash way from this FWPKG.

Universal Firmware Package for Drives - MB24000JYEVE

Version: HPD1 (B) (Recommended)

Fixes

Remove ROM flash way from this FWPKG.

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

Version: HPD5 (B) (Recommended)

Fixes

Remove ROM flash way from this FWPKG.

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

Version: HPD4 (B) (Critical)

Fixes

Remove ROM flash way from this FWPKG.

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

Version: HPD4 (Recommended)

Fixes

- Fix chip kill -The host IO CMD may get timed out and shows SNS=04/40/C2 Fix garbage collection checking for performance recovery.

Universal Firmware Package for Drives - MO001600PXVRU, VO003840PXVRR and VO007680PXVRT

Version: HPD3 (Recommended)

Fixes

Fix chip kill -The host IO CMD may get timed out and shows SNS=04/40/C2.

Universal Firmware Package for Drives - MO001600PZWSH, MO003200PZWSK, MO000800PZWSF and MO006400PZXFA

Version: HPD4 (Critical)

Fixes

- This is a firmware maintenance release. It addresses a potential data loss issue, along with other bug fixes and improvements.
- For more information, refer to HPE Customer Bulletin at the following URL: https://support.hpe.com/hpsc/doc/public/display?docId=a00150711en_us.

Universal Firmware Package for Drive - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR

Version: HPG3 (Recommended)

Fixes

Regular Firmware changes included:corner case performance enhance.o Servo change that resolves issue with early heat application from Idle sweep seek terminated that may cause read errors

Universal Firmware Package for Drive - MB016000GWXKK

Version: HPG4 (Recommended)

Fixes

- This firmware revision improves data integrity and reliability by optimizing adjacent track refresh parameters and management of emergency power loss table structure
- The risk of not upgrading to this firmware is the increased possibility of data corruption in emergency power loss events
- Several maintenance items are included in this firmware revision that reduce the probability of hangs and provide some minor performance improvements

Universal Firmware Package for Drives - MB004000GWZVT

Version: HPG3 (Recommended)

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.

Universal Firmware Package for Drives - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL

Version: HPG4 (Recommended)

Fixes

Improves data integrity.The risk of not upgrading to this firmware is the increased possibility of data corruption in certain error and timing conditions.Several maintenance items are included in this firmware revision that reduce the probability of hangs and provide a minor performance improvement.

Universal Firmware Package for Drives - MB12000GYESP, MB16000GYEVF and MB20000GYEVH

Version: HPG1 (Recommended)

Fixes

- Fix FW assert and other regular fixes

Universal Firmware Package for Drives - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV

Version: HPG1 (Recommended)

Fixes

- Fix contains optimization to increase the time for Recovery operation and few checks for maintenance

Universal Firmware Package for Drives - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT

Version: HPG1 (Recommended)

Fixes

・Fix contains optimization to increase the time for Recovery operation and few checks for maintenance

Universal Firmware Package for Drives - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB

Version: HPG1 (Recommended)

Fixes

・A minor reliability enhancement involving an extra head cleaning operation o

Universal Firmware Package for Drives - MB004000GWKGV

Version: HPG1 (Recommended)

Fixes

This firmware fixes an issue where the drive can become inaccessible after an emergency power off, and corrects a potential verification issue during read recovery.

Universal Firmware Package for Drives - MB006000GYDNL, MB008000GYDPE and MB010000GYDNN

Version: HPG4 (Recommended)

Fixes

・Firmware changes aligned for FIPS code release and one assert fix

Universal Firmware Package for Drives - MB018000GXMTK and MB020000GXMTQ

Version: HPG3 (Recommended)

Fixes

・Improve the FW about data mismatch after SPL issued.

Universal Firmware Package for Drives - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL

Version: HPG3 (Recommended)

Fixes

Improve the FW about data mismatch after SPL issued.

Universal Firmware Package for Drives - MK000480GXNXB, MK000960GXNZK, MK001920GXNZL, MK003840GXNZN, VK000240GXNWU, VK000480GXNZA, VK000960GXNZB, VK001920GXNZC,

VK003840GXNZD, VK007680GXNZE, VK000480SXNWV, VK001920SXNZF, MK000960SXNXC and MK001920SXNZP

Version: HPG1 (Recommended)

Fixes

- Improve FW handling on capacitor charge timeout mechanism
- Change the sense code during download microcode (0E)

Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GXPQT and VR000480GXPQU

Version: HPG4 (Recommended)

Fixes

This is a planned maintenance release covering bug fixes. This firmware includes updates to improve PLI circuit reliability.

Universal Firmware Package for Drives - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK

Version: HPG3 (Recommended)

Fixes

- Improve the FW about data mismatch after SPL

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: 7.81 (Recommended)

Important Note!

It is strongly recommended to use controller firmware version 7.81 for SR SAS/SATA controllers and firmware version 03.01.41.032 for SR tri-mode controllers, along with Windows driver version 1016.24.0.1002, Linux driver version 2.1.36-026, and VMware ESXi driver version 4862.0.104, as this combination has been fully qualified.

Fixes

Fixed an issue where SEDs reverting to foreign after controller reboot due to the otherwise owned flag not being saved to the datastore.Fixed an issue where firmware crash/lockup during NDSR (Non-Disruptive Software Reset) due to a NULL pointer reference when handling a failed drive during logical drive rebuilt.Fixed an issue where master key change failure on Managed SED logical drives due to LU cache flush requests conflicting with the password update process.Fixed an issue where physical drive Predictive Failure status not reported correctly by tools and iLO.Fixed an issue where controller lockup during surface scan caused by stale internal resources when handling Unrecoverable Read Errors (UREs) in unmapped

logical drive regions.Fixed an issue where uncorrectable DDR ECC errors could be reported at boot due to cache being accessed before initialization.Fixed an issue where the controller could lock up (0x3120C) when enabling MCP due to duplicate routing entries from flooded BMC requests.Fixed an issue where SATA drives could be incorrectly reported as hot-removed during spin-up by adjusting the dampen timer to align with vendor-specified TTR values.Fixed an issue where the controller could lock up (0x1E30) under high I/O workloads when configuration changes occurred simultaneously with a LUN reset.Fixed an issue where RAID 0 could hang with I/O timeouts and LUN resets during Predictive Spare Rebuild.Fixed an issue where the RAID controller could incorrectly report Online Firmware Activation as enabled. Firmware now checks support during PQI initialization and sets or clears the feature flags accordingly.Fixed an issue where Micron 6550 SED drives could fail to create a Secured Volume due to insufficient timeout during the TCG Revert process.Fixed an issue where Battery Redfish Alerts contained an incorrect OriginOfCondition pointing to a StorageController instead of the Battery resource.Fixed an issue where deleting volumes through PLDM Type 6 could cause a controller lockup if other PLDM commands were sent simultaneously. These commands now return NOT_READY when a long-running RDE operation is in progress.Fixed an issue where an incorrect error message was shown in HII when creating a logical drive on a locked SED, by updating the error message to correctly reflect SED encryption.

Enhancements

Added SSD life expectancy monitoring.Added support to securely transfer encryption keys in remote key management mode.Enhanced drive writes cache status reporting in HII.

Firmware Package - HPE MR216i-o Gen11 Tri Mode Controller

Version: 52.32.3-6333 (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 a00143124en_us Advisory: HPE MR Gen11 Controller - MR Gen11 Controllers on HPE Gen11 Servers May Fail to Generate "WriteCacheDataLoss" in the IML
- Fix a00148035en_us Advisory: HPE MR Gen11 Controllers - The Bay And Box NVMe Drive Location Is Not Displayed in the One-Time Boot Menu
- Fix an issue that Read/Write transfers over 128KB on LTO fail in Linux OS
- Fix an issue that Backup Exec doesn't work with LTO
- Fix an issue that controller might be dropped by the iLO in server boot up when there are 240 Logical Drives are configured Fix a rare issue that server health shows critical temporally when remove drive continuously.o Fix an issue that Request Sense command causes task management on the drive where sanitization is in progress.Fix an issue that Redfish PATCH StorageController[ControllerRates] silently sets random values when the value beyond 255 is used.o Fix an issue that incorrect controller error event may be logged when controller is configured as passthrough and do vm reboot Fix an issue that active

width, current speed are wrong in Redfish Fabric port when two backplanes connected to same storage port.o Fix a rare issue that NVMe drive link status may fail after reboot

- Fix a rare issue that controller may assert when there are multiple drives removed and inserted in a short time
- Fix an issue that sanitize percentage does not progress on SATA drives if there is SATA passthrough command running
- Fix an issue that sanitize percentage does not progress on NVMe drives
- Fix a rare issue that IO timeout and device reset may occur with stress test of Read/Write and Non-Read/Write commands

Enhancements

- DMTF PLDM Redfish Device Enablement enhancements
  - Redfish Volume Transformation Support
  - POST #Volume.ChangeRAIDLayout: RAID Layout Change. Change in the RAID Layout is achieved by providing the target RAIDType and the list of the drives in the input JSON body.
  - POST #Volume.ChangeRAIDLayout: Resize. ChangeRAIDLayout can be used to resize the volume by adding new Unconfigured Good drives without changing the RAIDType. In such cases RAIDType must not be provided in the input JSON body but the full drive list must be provided accordingly.
  - PATCH Volume[CapacityBytes]: This operation is used for resizing the volume when there is unused size available in the volume. There is no scope for adding any new drives here
  - POST #Volume.CheckConsistency: This operation starts Consistency Check operation on the volume. No input is expected for this operation.
  - Redfish Metrics GET Support
  - StorageControllerMetrics: UncorrectableECCErrorCount, CorrectableECCErrorCount, CorrectableParityErrorCount, StateChangeCount
  - PortMetrics: SAS.InvalidDwordCount, SAS.LossOfDwordSynchronizationCount, SAS.RunningDisparityErrorCount, PCIeErrors.CorrectableErrorCount, PCIeErrors.FatalErrorCount, PCIeErrors.NonFatalErrorCount
  - Each counter can hold a value up to 65535. Once the counter reaches the maximum value the value is not reset.
  - Metrics are cleared when user performs Controller NVRAM clear or Redfish ResetToDefaults.ResetAll.

Add support for users to clear NVRAM using MRSA and storcli Factory Repurpose operation.

- Clear NVRAM operation is not allowed if there is any configuration present on the controller or if there is any pinned cache.
- After clearing NVRAM, controller FW performs Online Controller Reset (OCR). If for some reason OCR cannot be performed, then the user will be notified to perform a system reboot.
- The Clear NVRAM operation is equivalent to Redfish ResetToDefaults.ResetAll operation functionally.

HPE Firmware Flash for QLogic 32Gb and 64Gb Fibre Channel Host Bus Adapters

Version: 02.11.01 (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	02.11.01	09.15.05	7.39	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.11.01	09.15.05	7.39	0.0

Fixes

Fixed the following:

BitLocker recovery is triggered during POST due to an option ROM verification failure on the Marvell adapter, preventing system to boot to Windows OS.

Enhancements

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.11.01	09.15.05	7.39	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.11.01	09.15.05	7.39	0.0

Supported Devices and Features

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

Firmware Package - UBM10 Backplane PIC PLDM Firmware

Version: 1.04 (Recommended)

Important Note!

Flash FWPKG Component on Web Standalone mode PLDM FWPKG component can be supported installation of UBM10 firmware when Backplane direct attached the the server.

Prerequisites

For Gen11 servers, iLO 6 version 1.10 or later is required.o For Gen12 servers iLO 6 version 1.62 or later is required

Enhancements

Remove the 0xC2 address to allow iLO to handle the MCTP discovery workaround.

Firmware Package - UBM4 Backplane PIC PLDM Firmware for Gen10P/Gen11/Gen12 servers usage

Version: 1.24 (G) (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 1.62 or later is required for Gen12 servers
- iLO 6 version 1.10 or later is required for Gen11 servers
- iLO 5 version 2.72 or later is required for Gen10 Plus servers

Enhancements

Support Gen12 servers.

Firmware Package - UBM6 Backplane PIC PLDM Firmware for Gen10/Gen10P/Gen11/Gen12 servers usage

Version: 1.04 (C) (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

- iLO 6 version 1.62 or later is required for Gen12 servers
- iLO 6 version 1.10 or later is required for Gen11 servers
- iLO 5 version 2.72 or later is required for Gen10P servers

Enhancements

Support SY480 Gen12 server.

Smart Storage Administrator (SSA) CLI Smart Component for ESXi 8.0 for Gen10/Gen10 Plus/Gen11 Controllers

Version: 2025.09.01 (Recommended)

Important Note!

- Actual ESXi Version is 6.50.11.0

Fixes

Fixed the "Parity Initialization Method" information displayed for non-parity RAID levels.Fixed an issue

where users were unable to clear the controller's configuration when a foreign volume was present.Fixed an issue where a foreign-owned SED drive was being listed for array creation.Fixed an issue where the last failure reason was not listing on physical drives.Fixed an issue where SSAScripting failed to create an encrypted volume while in express local mode.Fixed an issue where an error/warning message was not being generated correctly while expanding a RAID 1+0 volume.Fixed an issue where a duplicate entry for the physical drive was displayed.

Smart Storage Administrator (SSA) CLI Smart Component for ESXi 9.0 for Gen10/Gen10 Plus/Gen11 Controllers

Version: 2025.09.01 (Recommended)

Important Note!

・Actual ESXi Version is 6.50.11.0

Fixes

Fixed the "Parity Initialization Method" information displayed for non-parity RAID levels.Fixed an issue where users were unable to clear the controller's configuration when a foreign volume was present.Fixed an issue where a foreign-owned SED drive was being listed for array creation.Fixed an issue where the last failure reason was not listing on physical drives.Fixed an issue where SSAScripting failed to create an encrypted volume while in express local mode.Fixed an issue where an error/warning message was not being generated correctly while expanding a RAID 1+0 volume.Fixed an issue where a duplicate entry for the physical drive was displayed.

Enhancements

・Added support for VMware ESXi 9.0

HPE MegaRAID Storage Administrator StorCLI for VMware8.0 (For Gen10P and Gen11 Controllers)

Version: 2025.08.01 (Recommended)

Important Note!

・Actual ESXi Version is 007.3212.0000.0000

Enhancements

・Add support for users to clear NVRAM using Factory Repurpose operation

- Command: storcli /cx set factory repurpose

HPE MegaRAID Storage Administrator StorCLI for VMware9.0 (For Gen10P and Gen11 Controllers)

Version: 2025.08.01 (Recommended)

Important Note!

・Actual ESXi Version is 007.3212.0000.0000

Enhancements

・Add support for users to clear NVRAM using Factory Repurpose operation

- Command: storcli /cx set factory repurpose

HPE QLogic Fibre Channel driver component for VMware vSphere 8.0

Version: 2025.05.01 (Recommended)

Important Note!

This component is supported only on Gen12 ProLiant servers.Release Notes: HPE QLogic Adapters Release Notes webpages, plus an HPE specific CPXXXX.xml file. 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 5.4.85.0 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 QLogic Fibre Channel driver component for VMware vSphere 9.0

Version: 2025.05.01 (Recommended)

Important Note!

This component is supported only on Gen12 ProLiant servers.This component is intended to be used by HPE applications. It is a zip that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CPXXXX.xml file. This driver is only supported on VMware ESXi 9.0.

Prerequisites

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

Enhancements

Driver version 5.5.85.0 This driver is only supported on VMware ESXi 9.0

Supported Devices and Features

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

Agentless Management Service (iLO 5, iLO 6 and iLO 7) for Red Hat Enterprise Linux 9 Server

Version: 4.3.0 (Recommended)

Prerequisites

amsd only supported on HPE Gen10/Gen10 Plus and later Server Generations.o amsd provides information to the iLO 5,iLO 6 and iLO 7 service providing SNMP support For HPE servers with iLO 7: Ensure that the iLO Virtual NIC(VNIC) feature is enabled. Please refer to the HPE iLO User Guide for VNIC configuration procedure.

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 for Microsoft Windows x64

Version: 4.40.0.0 (Recommended)

Important Note!

About installation and enablement of SMA service:During AMS installation in interactive mode, there is pop up message to selectively install SMA.

- If Yes is selected, SMA service will be installed and set to running state.
- If No is selected, SMA service will be installed but the service is not enabled.

IMPORTANT: The SNMP service community name and permission must also be setup. This is not done by "EnableSma.bat".o 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

For HPE servers with iLO7: Ensure that the iLO Virtual NIC(VNIC) feature is enabled. Please refer to the HPE iLO User Guide for VNIC configuration procedure.

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 RHEL8, RHEL9 and SLES15 (HPE MRSA for Gen10P and Gen11 Controllers)

Version: 8.12.52.0 (Recommended)

Prerequisites

- 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.

Fixes

- Fix MRSA issue in a00150411en_us Advisory: HPE Compute MR Controllers - HPE MR Storage Administrator (MRSA) Launch Issue and Storage Command Line Interface (StorCLI) Installation Warning Message Observed With Red Hat Enterprise Linux Server 10

Enhancements

Change the backplane bay count information to the actual bay that is connected to controller.o Add support for users to clear NVRAM using Factory Repurpose operation

- Re-order MRSA GUI buttons
  - Move the Rebuild button to the top before Make Online button
  - Add the Rebuild button in the Offline Drive warning session
- Change the recommended action for Degarded Volume to "Make sure all the participating drives are connected and rebuild is complete".

HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for Gen10 Plus and Gen11 Controllers)

Version: 8.12.52.0 (Recommended)

Enhancements

Change the backplane bay count information to the actual bay that is connected to controller.o Add support for users to clear NVRAM using Factory Repurpose operation

- Re-order MRSA GUI buttons
  - Move the Rebuild button to the top before Make Online button
  - Add the Rebuild button in the Offline Drive warning session
- Change the recommended action for Degarded Volume to "Make sure all the participating drives are connected and rebuild is complete".

HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers)

Version: 7.3212.0.0 (Recommended)

Enhancements

- Add support for users to clear NVRAM using Factory Repurpose operation
  - Command: storcli /cx set factory repurpose

Smart Storage Administrator (SSA) CLI for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers

Version: 6.50.11.0 (Recommended)

Fixes

Fixed the "Parity Initialization Method" information displayed for non-parity RAID levels.Fixed an issue where users were unable to clear the controller's configuration when a foreign volume was present.Fixed an issue where a foreign-owned SED drive was being listed for array creation.Fixed an issue where the last

failure reason was not listing on physical drives.Fixed an issue where SSAScripting failed to create an encrypted volume while in express local mode.Fixed an issue where an error/warning message was not being generated correctly while expanding a RAID 1+0 volume.Fixed an issue where a duplicate entry for the physical drive was displayed.

Smart Storage Administrator (SSA) for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers

Version: 6.50.11.0 (Recommended)

Fixes

Fixed the "Parity Initialization Method" information displayed for non-parity RAID levels.Fixed an issue where users were unable to clear the controller's configuration when a foreign volume was present.Fixed an issue where a foreign-owned SED drive was being listed for array creation.

Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers

Version: 6.50.11.0 (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 the "Parity Initialization Method" information displayed for non-parity RAID levels.Fixed an issue where users were unable to clear the controller's configuration when a foreign volume was present.Fixed an issue where a foreign-owned SED drive was being listed for array creation.Fixed an issue where the last failure reason was not listing on physical drives.Fixed an issue where SSAScripting failed to create an encrypted volume while in express local mode.Fixed an issue where an error/warning message was not being generated correctly while expanding a RAID 1+0 volume.o
Fixed an issue where a duplicate entry for the physical drive was displayed.