HITACHI

HA8000V シリーズ

Service Pack for HA8000V (SPH)

Version 12.03 16

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
２０２６年5月	初版

2. Service Pack for HA8000V（ＳＰＨ)について

Service Pack for HA8000V(以降 SPH と呼びます)は、１台または複数台の HA8000V サーバのファームウェア/システムソフトウェアの更新を簡素化するソリューションです。
SPH には、サーバ/コントローラ/ストレージのファームウェア/ドライバ/ユーティリティパッケージが含まれます。また、SPH に収録されている Smart Update Manager(以降 SUM と呼びます)は、更新されたファームウェアおよびシステムソフトウェアをデプロイする推奨ツールです。
SPH/SUM を使うことで、ファームウェアおよびシステムソフトウェアのオンラインアップデートが可能となります。アップデート操作を SUM に統合することにより、個々の HA8000V サーバのアップデートが迅速になり、システム全体のアップデート時間を短縮することができます。

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

3. 適用機種及びＯＳ

SPH のバージョン及び適用機種/適用 OS の組み合わせについては、「Service Pack for HA8000V 補足資料(Readme)」の『サポートモデル/OS 一覧』を参照ください。

3.1 適用機種

- HA8000V/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 9.6
- 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 9.6

(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 9.5

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。)

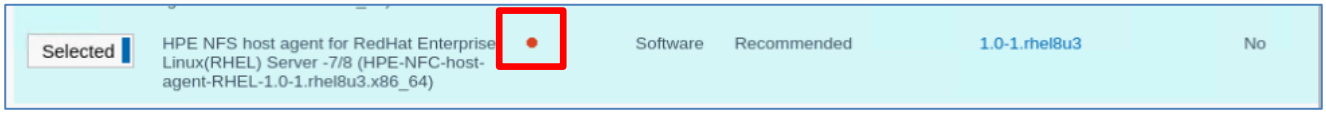
【注意】
ファームウェア/ドライバ/ユーティリティは、別途ご案内のない限り、最新のものをご使用いただくことを推奨しています。特に、強制適用を選択した場合、選択したバージョンが古いとダウングレードとなりますので、意図せずダウングレードしてしまうことが無いよう、操作には注意してください。

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。

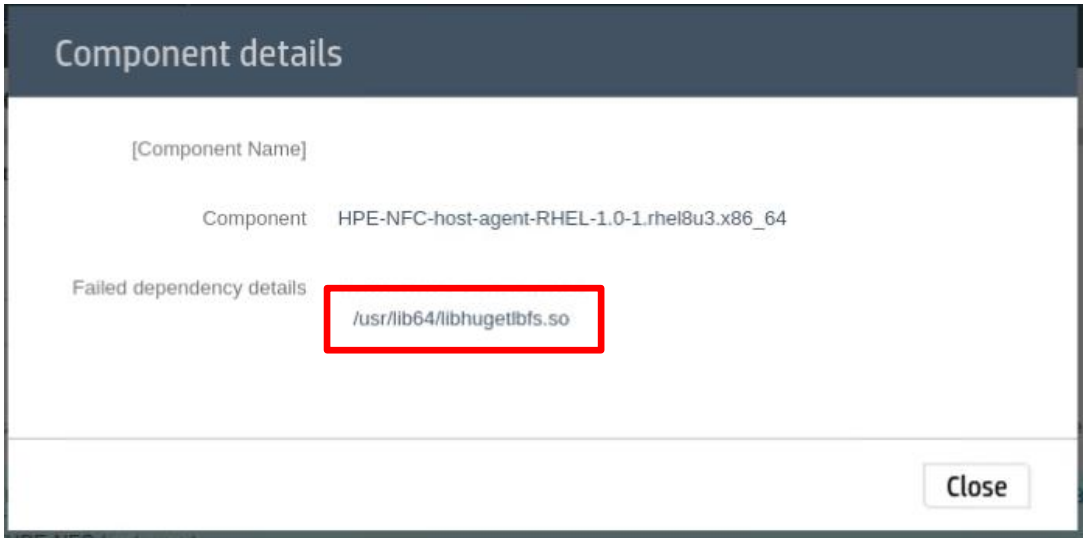
エラーが発生する場合、以降記述の各エラー表示例をご参照頂き、依存ファイルとして表示されるファイル/ライブラリをインストール後、再度 SPH を適用して下さい。

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。

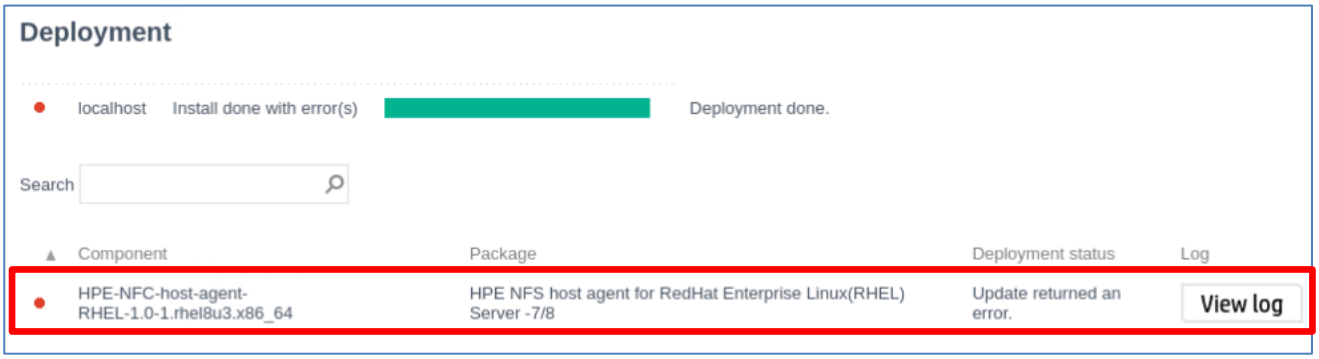


上記赤枠内の赤丸をダブルクリックすると次のダイアログが表示され、”Failed dependency details”として、インストールが必要となるファイル/ライブラリが表示されます。(赤枠内)

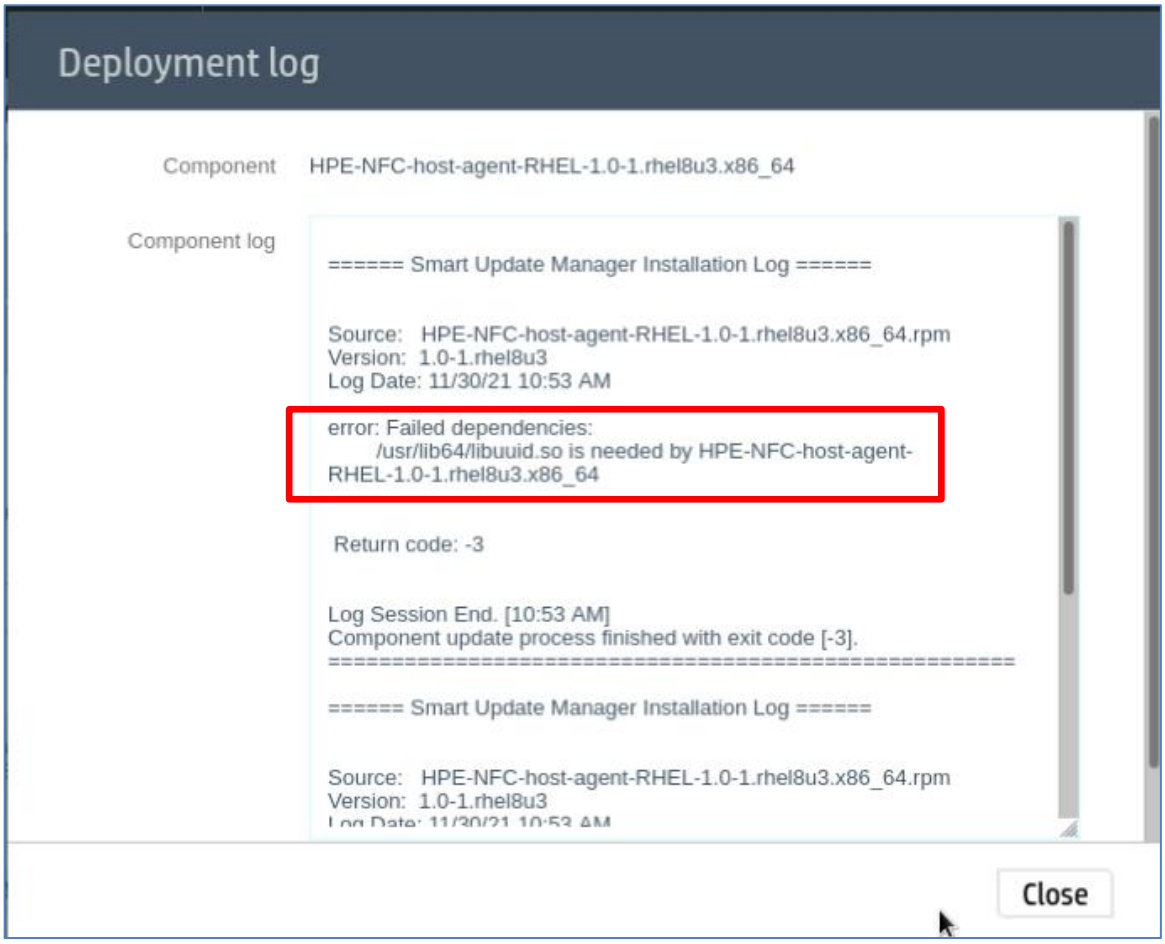


上記の例では、インストールが必要となるファイル/ライブラリとして、”libhugetlbfs.so”を示しています。

【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	

(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	cp070600.zip	sutComponent_800.6.6.0.8-*.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 6.6.0 for ESXi 8.0, ESXi 9.0 and ESXi 9.1	cp070600.zip	-	2026.03.00	800.6.6.0.8-0
2	Integrated Smart Update Tools for Linux x64	sut-6.6.0-11.linux.x86_64.rpm	-	6.6.0.0	6.6.0-11.linux
3	Integrated Smart Update Tools for Windows x64	cp070601.exe	-	6.6.0.0	6.6.0.0

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_1.62_02_06_2026.fwpkg	System BIOS - U68	1.62_02-06-2026	U68 v1.62 (02/06/2026)
5	ROM Flash Firmware Package - System ROM U71	OEM.U71_1.62_02_06_2026.fwpkg	System BIOS - U71	1.62_02-06-2026	U71 v1.62 (02/06/2026)
6	ROM Flash Firmware Package - System ROM U72	OEM.U72_1.62_02_06_2026.fwpkg	System BIOS - U72	1.62_02-06-2026	U72 v1.62 (02/06/2026)

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	cp070875.exe	-	10.1.19928.8615 (F)	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	cp069002.exe	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE	221.0.8.0 (C)	221.0.8.0
9	Broadcom NX1 1Gb Driver for Windows Server x64 Editions	cp069002.exe	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE	221.0.8.0 (C)	221.0.8.0
10	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp069012.exe	BCM 57414 10/25GbE 2p SFP28 Adptr	235.1.122.0	235.1.122.0
11	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp069012.exe	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	235.1.122.0	235.1.122.0
12	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp069012.exe	BCM 57416 10GbE 2p BASE-T Adptr	235.1.122.0	235.1.122.0
13	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp069012.exe	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	235.1.122.0	235.1.122.0
14	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp069012.exe	BCM 57412 10GbE 2p SFP+ Adptr	235.1.122.0	235.1.122.0
15	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp069012.exe	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	235.1.122.0	235.1.122.0
16	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp069012.exe	Broadcom NetXtreme-E BCM57608 100GbE 2p QSFP112 Adptr	235.1.122.0	235.1.122.0
17	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp069012.exe	Broadcom NetXtreme-E BCM57608 100GbE QSFP112 OCP3 Adptr	235.1.122.0	235.1.122.0
18	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp069012.exe	BCM 57504 10/25GbE 4p SFP28 Adptr	235.1.122.0	235.1.122.0
19	Broadcom NetXtreme-E Driver for	cp069012.exe	BCM 57504 10/25GbE	235.1.122.0	235.1.122.0

	Microsoft Windows Server 2022		4p SFP28 OCP3 Adptr		
20	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp069011.exe	BCM 57414 10/25GbE 2p SFP28 Adptr	235.1.122.0	235.1.122.0
21	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp069011.exe	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	235.1.122.0	235.1.122.0
22	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp069011.exe	BCM 57416 10GbE 2p BASE-T Adptr	235.1.122.0	235.1.122.0
23	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp069011.exe	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	235.1.122.0	235.1.122.0
24	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp069011.exe	BCM 57412 10GbE 2p SFP+ Adptr	235.1.122.0	235.1.122.0
25	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp069011.exe	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	235.1.122.0	235.1.122.0
26	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp069011.exe	Broadcom NetXtreme-E BCM57608 100GbE 2p QSFP112 Adptr	235.1.122.0	235.1.122.0
27	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp069011.exe	Broadcom NetXtreme-E BCM57608 100GbE QSFP112 OCP3 Adptr	235.1.122.0	235.1.122.0
28	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp069011.exe	BCM 57504 10/25GbE 4p SFP28 Adptr	235.1.122.0	235.1.122.0
29	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp069011.exe	BCM 57504 10/25GbE 4p SFP28 OCP3 Adptr	235.1.122.0	235.1.122.0
30	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-235.1.164.14.rhel9u6.x86_64.rpm	BCM 57414 10/25GbE 2p SFP28 Adptr	1.10.3-235.1.164.14	1.10.3-235.1.164.14.rhel9u6
31	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-235.1.164.14.rhel9u6.x86_64.rpm	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	1.10.3-235.1.164.14	1.10.3-235.1.164.14.rhel9u6
32	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-235.1.164.14.rhel9u6.x86_64.rpm	BCM 57416 10GbE 2p BASE-T Adptr	1.10.3-235.1.164.14	1.10.3-235.1.164.14.rhel9u6
33	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-235.1.164.14.rhel9u6.x86_64.rpm	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	1.10.3-235.1.164.14	1.10.3-235.1.164.14.rhel9u6
34	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-235.1.164.14.rhel9u6.x86_64.rpm	BCM 57412 10GbE 2p SFP+ Adptr	1.10.3-235.1.164.14	1.10.3-235.1.164.14.rhel9u6
35	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-235.1.164.14.rhel9u6.x86_64.rpm	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	1.10.3-235.1.164.14	1.10.3-235.1.164.14.rhel9u6
36	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-235.1.164.14.rhel9u6.x86_64.rpm	Broadcom NetXtreme-E BCM57608 100GbE 2p QSFP112 Adptr	1.10.3-235.1.164.14	1.10.3-235.1.164.14.rhel9u6
37	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-235.1.164.14.rhel9u6.x86_64.rpm	Broadcom NetXtreme-E BCM57608 100GbE QSFP112 OCP3 Adptr	1.10.3-235.1.164.14	1.10.3-235.1.164.14.rhel9u6
38	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-235.1.164.14.rhel9u6.x86_64.rpm	BCM 57504 10/25GbE 4p SFP28 Adptr	1.10.3-235.1.164.14	1.10.3-235.1.164.14.rhel9u6
39	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-235.1.164.14.rhel9u6.x86_64.rpm	BCM 57504 10/25GbE 4p SFP28 OCP3 Adptr	1.10.3-235.1.164.14	1.10.3-235.1.164.14.rhel9u6
40	HPE Broadcom NetXtreme-E Drivers for	cp068542.zip	BCM 57414 10/25GbE	2025.11.00	235.1.240.0-

	VMware vSphere 8.0		2p SFP28 Adptr		1OEM.800.1.0.20613240
41	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp068542.zip	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	2025.11.00	235.1.240.0-1OEM.800.1.0.20613240
42	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp068542.zip	BCM 57416 10GbE 2p BASE-T Adptr	2025.11.00	235.1.240.0-1OEM.800.1.0.20613240
43	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp068542.zip	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	2025.11.00	235.1.240.0-1OEM.800.1.0.20613240
44	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp068542.zip	BCM 57412 10GbE 2p SFP+ Adptr	2025.11.00	235.1.240.0-1OEM.800.1.0.20613240
45	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp068542.zip	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	2025.11.00	235.1.240.0-1OEM.800.1.0.20613240
46	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp068542.zip	Broadcom NetXtreme-E BCM57608 100GbE 2p QSFP112 Adptr	2025.11.00	235.1.240.0-1OEM.800.1.0.20613240
47	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp068542.zip	Broadcom NetXtreme-E BCM57608 100GbE QSFP112 OCP3 Adptr	2025.11.00	235.1.240.0-1OEM.800.1.0.20613240
48	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp068542.zip	BCM 57504 10/25GbE 4p SFP28 Adptr	2025.11.00	235.1.240.0-1OEM.800.1.0.20613240
49	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp068542.zip	BCM 57504 10/25GbE 4p SFP28 OCP3 Adptr	2025.11.00	235.1.240.0-1OEM.800.1.0.20613240
50	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp068543.zip	BCM 57414 10/25GbE 2p SFP28 Adptr	2025.11.00	235.1.240.0-1OEM.900.0.24755229
51	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp068543.zip	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	2025.11.00	235.1.240.0-1OEM.900.0.24755229
52	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp068543.zip	BCM 57416 10GbE 2p BASE-T Adptr	2025.11.00	235.1.240.0-1OEM.900.0.24755229
53	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp068543.zip	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	2025.11.00	235.1.240.0-1OEM.900.0.24755229
54	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp068543.zip	BCM 57412 10GbE 2p SFP+ Adptr	2025.11.00	235.1.240.0-1OEM.900.0.24755229
55	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp068543.zip	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	2025.11.00	235.1.240.0-1OEM.900.0.24755229
56	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp068543.zip	Broadcom NetXtreme-E BCM57608 100GbE 2p QSFP112 Adptr	2025.11.00	235.1.240.0-1OEM.900.0.24755229
57	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp068543.zip	Broadcom NetXtreme-E BCM57608 100GbE QSFP112 OCP3 Adptr	2025.11.00	235.1.240.0-1OEM.900.0.24755229
58	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp068543.zip	BCM 57504 10/25GbE 4p SFP28 Adptr	2025.11.00	235.1.240.0-1OEM.900.0.24755229
59	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp068543.zip	BCM 57504 10/25GbE 4p SFP28 OCP3 Adptr	2025.11.00	235.1.240.0-1OEM.900.0.24755229
60	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 6.	libbnxt_re-235.1.164.14-rhel9u6.x86_64.rpm	BCM 57414 10/25GbE 2p SFP28 Adptr	235.1.164.14	235.1.164.14-rhel9u6

61	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 6.	libbnxt_re-235.1.164.14-rhel9u6.x86_64.rpm	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	235.1.164.14	235.1.164.14-rhel9u6
62	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 6.	libbnxt_re-235.1.164.14-rhel9u6.x86_64.rpm	BCM 57416 10GbE 2p BASE-T Adptr	235.1.164.14	235.1.164.14-rhel9u6
63	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 6.	libbnxt_re-235.1.164.14-rhel9u6.x86_64.rpm	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	235.1.164.14	235.1.164.14-rhel9u6
64	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 6.	libbnxt_re-235.1.164.14-rhel9u6.x86_64.rpm	BCM 57412 10GbE 2p SFP+ Adptr	235.1.164.14	235.1.164.14-rhel9u6
65	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 6.	libbnxt_re-235.1.164.14-rhel9u6.x86_64.rpm	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	235.1.164.14	235.1.164.14-rhel9u6
66	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 6.	libbnxt_re-235.1.164.14-rhel9u6.x86_64.rpm	Broadcom NetXtreme-E BCM57608 100GbE 2p QSFP112 Adptr	235.1.164.14	235.1.164.14-rhel9u6
67	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 6.	libbnxt_re-235.1.164.14-rhel9u6.x86_64.rpm	Broadcom NetXtreme-E BCM57608 100GbE QSFP112 OCP3 Adptr	235.1.164.14	235.1.164.14-rhel9u6
68	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 6.	libbnxt_re-235.1.164.14-rhel9u6.x86_64.rpm	BCM 57504 10/25GbE 4p SFP28 Adptr	235.1.164.14	235.1.164.14-rhel9u6
69	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 6.	libbnxt_re-235.1.164.14-rhel9u6.x86_64.rpm	BCM 57504 10/25GbE 4p SFP28 OCP3 Adptr	235.1.164.14	235.1.164.14-rhel9u6
70	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 9	kmod-tg3-3.139w-1.rhel9u6.x86_64.rpm	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE	3.139w-1	3.139w-1.rhel9u6
71	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 9	kmod-tg3-3.139w-1.rhel9u6.x86_64.rpm	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE	3.139w-1	3.139w-1.rhel9u6
72	HPE Intel iavf Drivers for Red Hat Enterprise Linux 9	kmod-hp-iavf-4.13.20-1.rhel9u6.x86_64.rpm	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	4.13.20-1	4.13.20-1.rhel9u6
73	HPE Intel iavf Drivers for Red Hat Enterprise Linux 9	kmod-hp-iavf-4.13.20-1.rhel9u6.x86_64.rpm	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	4.13.20-1	4.13.20-1.rhel9u6
74	HPE Intel iavf Drivers for Red Hat Enterprise Linux 9	kmod-hp-iavf-4.13.20-1.rhel9u6.x86_64.rpm	Intel E810-XXVDA2 adapter	4.13.20-1	4.13.20-1.rhel9u6
75	HPE Intel iavf Drivers for Red Hat Enterprise Linux 9	kmod-hp-iavf-4.13.20-1.rhel9u6.x86_64.rpm	Intel E810-XXVDA2 OCP3 adapter	4.13.20-1	4.13.20-1.rhel9u6
76	HPE Intel iavf Drivers for Red Hat Enterprise Linux 9	kmod-hp-iavf-4.13.20-1.rhel9u6.x86_64.rpm	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	4.13.20-1	4.13.20-1.rhel9u6
77	HPE Mellanox RoCE Driver [ConnectX-4 and above] for Red Hat Enterprise Linux 9 Update 6 (x86_64)	kmod-mlnx-ofa_kernel-25.07-OFED.25.07.0.9.7.1.rhel9u6.x86_64.rpm	MLX MCX631102 10/25GbE 2p SFP28 Adptr	25.07-0.9.7.0	25.07-OFED.25.07.0.9.7.1.rhel9u6
78	HPE Mellanox RoCE Driver [ConnectX-4 and above] for Red Hat Enterprise Linux 9 Update 6 (x86_64)	kmod-mlnx-ofa_kernel-25.07-OFED.25.07.0.9.7.1.rhel9u6.x86_64.rpm	MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr	25.07-0.9.7.0	25.07-OFED.25.07.0.9.7.1.rhel9u6
79	HPE Mellanox RoCE Driver [ConnectX-4	kmod-mlnx-	HPE IB NDR/EN 400G	25.07-	25.07-

	and above] for Red Hat Enterprise Linux 9 Update 6 (x86_64)	ofa_kernel-25.07-OFED.25.07.0.9.7.1.rhel9u6.x86_64.rpm	1p OSFP Adptr	0.9.7.0	OFED.25.07.0.9.7.1.rhel9u6
80	HPE Mellanox RoCE Driver [ConnectX-4 and above] for Red Hat Enterprise Linux 9 Update 6 (x86_64)	kmod-mlnx-ofa_kernel-25.07-OFED.25.07.0.9.7.1.rhel9u6.x86_64.rpm	HPE IB NDR200/EN 200G 1p OSFP Adptr	25.07-0.9.7.0	25.07-OFED.25.07.0.9.7.1.rhel9u6
81	HPE Mellanox RoCE Driver [ConnectX-4 and above] for Red Hat Enterprise Linux 9 Update 6 (x86_64)	kmod-mlnx-ofa_kernel-25.07-OFED.25.07.0.9.7.1.rhel9u6.x86_64.rpm	HPE IB NDR200/EN 200G 2p QSFP112 Adptr	25.07-0.9.7.0	25.07-OFED.25.07.0.9.7.1.rhel9u6
82	HPE Mellanox RoCE Driver [ConnectX-4 and above] for Red Hat Enterprise Linux 9 Update 6 (x86_64)	kmod-mlnx-ofa_kernel-25.07-OFED.25.07.0.9.7.1.rhel9u6.x86_64.rpm	HPE Ethernet 100Gb 2-port QSFP56 MCX623106AS-CDAT Adapter	25.07-0.9.7.0	25.07-OFED.25.07.0.9.7.1.rhel9u6
83	HPE Mellanox RoCE Driver [ConnectX-4 and above] for Red Hat Enterprise Linux 9 Update 6 (x86_64)	mlnx-ofa_kernel-25.07-OFED.25.07.0.9.7.1.rhel9u6.x86_64.rpm	MLX MCX631102 10/25GbE 2p SFP28 Adptr	25.07-0.9.7.0	25.07-OFED.25.07.0.9.7.1.rhel9u6
84	HPE Mellanox RoCE Driver [ConnectX-4 and above] for Red Hat Enterprise Linux 9 Update 6 (x86_64)	mlnx-ofa_kernel-25.07-OFED.25.07.0.9.7.1.rhel9u6.x86_64.rpm	MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr	25.07-0.9.7.0	25.07-OFED.25.07.0.9.7.1.rhel9u6
85	HPE Mellanox RoCE Driver [ConnectX-4 and above] for Red Hat Enterprise Linux 9 Update 6 (x86_64)	mlnx-ofa_kernel-25.07-OFED.25.07.0.9.7.1.rhel9u6.x86_64.rpm	HPE IB NDR/EN 400G 1p OSFP Adptr	25.07-0.9.7.0	25.07-OFED.25.07.0.9.7.1.rhel9u6
86	HPE Mellanox RoCE Driver [ConnectX-4 and above] for Red Hat Enterprise Linux 9 Update 6 (x86_64)	mlnx-ofa_kernel-25.07-OFED.25.07.0.9.7.1.rhel9u6.x86_64.rpm	HPE IB NDR200/EN 200G 1p OSFP Adptr	25.07-0.9.7.0	25.07-OFED.25.07.0.9.7.1.rhel9u6
87	HPE Mellanox RoCE Driver [ConnectX-4 and above] for Red Hat Enterprise Linux 9 Update 6 (x86_64)	mlnx-ofa_kernel-25.07-OFED.25.07.0.9.7.1.rhel9u6.x86_64.rpm	HPE IB NDR200/EN 200G 2p QSFP112 Adptr	25.07-0.9.7.0	25.07-OFED.25.07.0.9.7.1.rhel9u6
88	HPE Mellanox RoCE Driver [ConnectX-4 and above] for Red Hat Enterprise Linux 9 Update 6 (x86_64)	mlnx-ofa_kernel-25.07-OFED.25.07.0.9.7.1.rhel9u6.x86_64.rpm	HPE Ethernet 100Gb 2-port QSFP56 MCX623106AS-CDAT Adapter	25.07-0.9.7.0	25.07-OFED.25.07.0.9.7.1.rhel9u6
89	Intel ice Drivers for Red Hat Enterprise Linux 9	kmod-ice-2.4.5-1.rhel9u6.x86_64.rpm	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	2.4.5-1	2.4.5-1.rhel9u6
90	Intel ice Drivers for Red Hat Enterprise Linux 9	kmod-ice-2.4.5-1.rhel9u6.x86_64.rpm	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	2.4.5-1	2.4.5-1.rhel9u6
91	Intel ice Drivers for Red Hat Enterprise Linux 9	kmod-ice-2.4.5-1.rhel9u6.x86_64.rpm	Intel E810-XXVDA2 adapter	2.4.5-1	2.4.5-1.rhel9u6
92	Intel ice Drivers for Red Hat Enterprise Linux 9	kmod-ice-2.4.5-1.rhel9u6.x86_64.rpm	Intel E810-XXVDA2 OCP3 adapter	2.4.5-1	2.4.5-1.rhel9u6
93	Intel ice Drivers for Red Hat Enterprise Linux 9	kmod-ice-2.4.5-1.rhel9u6.x86_64.rpm	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	2.4.5-1	2.4.5-1.rhel9u6
94	Intel icea Driver for Microsoft Windows Server 2022	cp070553.exe	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	1.20.39.0	1.20.39.0
95	Intel icea Driver for Microsoft Windows Server 2022	cp070553.exe	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	1.20.39.0	1.20.39.0
96	Intel icea Driver for Microsoft Windows	cp070553.exe	Intel E810-XXVDA2	1.20.39.0	1.20.39.0

	Server 2022		adapter		
97	Intel icea Driver for Microsoft Windows Server 2022	cp070553.exe	Intel E810-XXVDA2 OCP3 adapter	1.20.39.0	1.20.39.0
98	Intel icea Driver for Microsoft Windows Server 2022	cp070553.exe	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	1.20.39.0	1.20.39.0
99	Intel icea Driver for Microsoft Windows Server 2025	cp070554.exe	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	1.20.43.0	1.20.43.0
100	Intel icea Driver for Microsoft Windows Server 2025	cp070554.exe	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	1.20.43.0	1.20.43.0
101	Intel icea Driver for Microsoft Windows Server 2025	cp070554.exe	Intel E810-XXVDA2 adapter	1.20.43.0	1.20.43.0
102	Intel icea Driver for Microsoft Windows Server 2025	cp070554.exe	Intel E810-XXVDA2 OCP3 adapter	1.20.43.0	1.20.43.0
103	Intel icea Driver for Microsoft Windows Server 2025	cp070554.exe	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	1.20.43.0	1.20.43.0
104	Intel icen Driver for VMware vSphere 8.0	cp068814.zip	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	2026.03.00	2.3.3.0-1OEM.800.1.0.20613240
105	Intel icen Driver for VMware vSphere 8.0	cp068814.zip	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	2026.03.00	2.3.3.0-1OEM.800.1.0.20613240
106	Intel icen Driver for VMware vSphere 8.0	cp068814.zip	Intel E810-XXVDA2 adapter	2026.03.00	2.3.3.0-1OEM.800.1.0.20613240
107	Intel icen Driver for VMware vSphere 8.0	cp068814.zip	Intel E810-XXVDA2 OCP3 adapter	2026.03.00	2.3.3.0-1OEM.800.1.0.20613240
108	Intel icen Driver for VMware vSphere 8.0	cp068814.zip	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	2026.03.00	2.3.3.0-1OEM.800.1.0.20613240
109	Intel icen Driver for VMware vSphere 9.0	cp068815.zip	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	2026.03.00	2.3.3.0-1OEM.900.0.24755229
110	Intel icen Driver for VMware vSphere 9.0	cp068815.zip	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	2026.03.00	2.3.3.0-1OEM.900.0.24755229
111	Intel icen Driver for VMware vSphere 9.0	cp068815.zip	Intel E810-XXVDA2 adapter	2026.03.00	2.3.3.0-1OEM.900.0.24755229
112	Intel icen Driver for VMware vSphere 9.0	cp068815.zip	Intel E810-XXVDA2 OCP3 adapter	2026.03.00	2.3.3.0-1OEM.900.0.24755229
113	Intel icen Driver for VMware vSphere 9.0	cp068815.zip	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	2026.03.00	2.3.3.0-1OEM.900.0.24755229
114	Mellanox WinOF2 Driver for Microsoft Windows Server 2022	cp068343.exe	HPE Ethernet 100Gb 2-port QSFP56 MCX623106AS-CDAT Adapter	25.7.26882.0	25.7.26882.0
115	Mellanox WinOF2 Driver for Microsoft Windows Server 2022	cp068343.exe	MLX MCX631102 10/25GbE 2p SFP28 Adptr	25.7.26882.0	25.7.26882.0

116	Mellanox WinOF2 Driver for Microsoft Windows Server 2022	cp068343.exe	MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr	25.7.26882.0	25.7.26882.0
117	Mellanox WinOF2 Driver for Microsoft Windows Server 2025	cp068345.exe	HPE Ethernet 100Gb 2-port QSFP56 MCX623106AS-CDAT Adapter	25.7.26882.0	25.7.26882.0
118	Mellanox WinOF2 Driver for Microsoft Windows Server 2025	cp068345.exe	MLX MCX631102 10/25GbE 2p SFP28 Adptr	25.7.26882.0	25.7.26882.0
119	Mellanox WinOF2 Driver for Microsoft Windows Server 2025	cp068345.exe	MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr	25.7.26882.0	25.7.26882.0

6.2.5 Driver - Security

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
120	Intel QuickAssist Technology driver for Microsoft Windows	cp069598.exe	-	2.6.0.30	2.6.0.30

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	cp068884.zip	HPE_MR416i-o_Gen11	2026.03.01	7.736.02.00-1OEM.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	cp068884.zip	HPE_MR416i-p_Gen11	2026.03.01	7.736.02.00-1OEM.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	cp068884.zip	HPE_MR216i-o_Gen11	2026.03.01	7.736.02.00-1OEM.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	cp068884.zip	HPE_MR408i-o_Gen11	2026.03.01	7.736.02.00-1OEM.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	cp068884.zip	HPE_MR216i-p_Gen11	2026.03.01	7.736.02.00-1OEM.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	cp068884.zip	HPE_MR408i-p_Gen11	2026.03.01	7.736.02.00-1OEM.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	cp068885.zip	HPE_MR416i-o_Gen11	2026.03.01	7.736.02.00-1OEM.900.0.24755229

	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	cp068885.zip	HPE_MR416i-p_Gen11	2026.03.01	7.736.02.00-1OEM.900.0.24755229
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	cp068885.zip	HPE_MR216i-o_Gen11	2026.03.01	7.736.02.00-1OEM.900.0.24755229
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	cp068885.zip	HPE_MR408i-o_Gen11	2026.03.01	7.736.02.00-1OEM.900.0.24755229
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	cp068885.zip	HPE_MR216i-p_Gen11	2026.03.01	7.736.02.00-1OEM.900.0.24755229
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	cp068885.zip	HPE_MR408i-p_Gen11	2026.03.01	7.736.02.00-1OEM.900.0.24755229
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-07.736.04.00_rhel9u6-1.x86_64.rpm	HPE_MR416i-o_Gen11	07.736.04.00	07.736.04.00_rhel9u6-1
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-07.736.04.00_rhel9u6-1.x86_64.rpm	HPE_MR416i-p_Gen11	07.736.04.00	07.736.04.00_rhel9u6-1
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-07.736.04.00_rhel9u6-1.x86_64.rpm	HPE_MR216i-o_Gen11	07.736.04.00	07.736.04.00_rhel9u6-1
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-07.736.04.00_rhel9u6-1.x86_64.rpm	HPE_MR408i-o_Gen11	07.736.04.00	07.736.04.00_rhel9u6-1
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-07.736.04.00_rhel9u6-1.x86_64.rpm	HPE_MR216i-p_Gen11	07.736.04.00	07.736.04.00_rhel9u6-1
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-07.736.04.00_rhel9u6-1.x86_64.rpm	HPE_MR408i-p_Gen11	07.736.04.00	07.736.04.00_rhel9u6-1

	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	cp069507.exe	HPE_MR416i-o_Gen11	7.736.3.0	7.736.3.0
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	cp069507.exe	HPE_MR416i-p_Gen11	7.736.3.0	7.736.3.0
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	cp069507.exe	HPE_MR216i-o_Gen11	7.736.3.0	7.736.3.0
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	cp069507.exe	HPE_MR408i-o_Gen11	7.736.3.0	7.736.3.0
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	cp069507.exe	HPE_MR216i-p_Gen11	7.736.3.0	7.736.3.0
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	cp069507.exe	HPE_MR408i-p_Gen11	7.736.3.0	7.736.3.0
145	HPE ProLiant Gen10 Smart Array and Gen10 Plus and Gen11 Smart RAID Controller Driver for VMware vSphere 8.0 (Driver Component).	cp069364.zip	HPE Smart Array E208e-p SR Gen10 Controller	2026.01.01	80.4880.0.109-1OEM.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).	cp069363.zip	HPE Smart Array E208e-p SR Gen10 Controller	2026.01.01	90.4880.0.109-1OEM.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-2.1.38-022.rhel9u6.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	2.1.38-022	2.1.38-022.rhel9u6
148	HPE Smart Array Gen10, Gen10Plus and Gen11 Controller Driver for Windows Server 2022 and Windows Server 2025	cp069362.exe	HPE Smart Array E208e-p SR Gen10 Controller	1016.30.0.1014	1016.30.0.1014
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	cp068882.exe	HPE_MR416i-o_Gen11	7.736.3.0	7.736.3.0
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	cp068882.exe	HPE_MR416i-p_Gen11	7.736.3.0	7.736.3.0
151	MR416i-p, MR416i-a, MR216i-p,	cp068882.exe	HPE_MR216i-	7.736.3.0	7.736.3.0

	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		o_Gen11		
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	cp068882.exe	HPE_MR408i-o_Gen11	7.736.3.0	7.736.3.0
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	cp068882.exe	HPE_MR216i-p_Gen11	7.736.3.0	7.736.3.0
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	cp068882.exe	HPE_MR408i-p_Gen11	7.736.3.0	7.736.3.0

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	cp066362.exe	HPE SN1620E 32Gb 2p FC HBA	14.4.624.0	14.4.624.0
156	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2022	cp066362.exe	HPE SN1720E 64Gb 2p FC HBA	14.4.624.0	14.4.624.0
157	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2025	cp070331.exe	HPE SN1620E 32Gb 2p FC HBA	14.4.624.1	14.4.624.1
158	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2025	cp070331.exe	HPE SN1720E 64Gb 2p FC HBA	14.4.624.1	14.4.624.1
159	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2022	cp070337.exe	HPE SN1700Q 64Gb 2p FC HBA	9.4.11.20 (c)	9.4.11.20
160	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2022	cp070337.exe	HPE SN1700Q 64Gb 1p FC HBA	9.4.11.20 (c)	9.4.11.20
161	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2022	cp070337.exe	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	9.4.11.20 (c)	9.4.11.20
162	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2022	cp070337.exe	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	9.4.11.20 (c)	9.4.11.20
163	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2025	cp070338.exe	HPE SN1700Q 64Gb 2p FC HBA	9.4.11.20 (d)	9.4.11.20
164	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2025	cp070338.exe	HPE SN1700Q 64Gb 1p FC HBA	9.4.11.20 (d)	9.4.11.20
165	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2025	cp070338.exe	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	9.4.11.20 (d)	9.4.11.20
166	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2025	cp070338.exe	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	9.4.11.20 (d)	9.4.11.20
167	Red Hat Enterprise Linux 9 Update 6 Server Fibre Channel Driver Kit for HPE	kmod-elx-lpfc-14.4.731.6-	HPE SN1620E 32Gb 2p FC HBA	14.4.731.6	14.4.731.6-1.rhel9u6

	Emulex Host Bus Adapter	1.rhel9u6.x86_64.rpm			
168	Red Hat Enterprise Linux 9 Update 6 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapter	kmod-elx-lpfc-14.4.731.6-1.rhel9u6.x86_64.rpm	HPE SN1720E 64Gb 2p FC HBA	14.4.731.6	14.4.731.6-1.rhel9u6
169	Red Hat Enterprise Linux 9 Update 6 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters	kmod-qlgc-qla2xxx-10.02.15.00_k1-1.rhel9u6.x86_64.rpm	HPE SN1700Q 64Gb 2p FC HBA	10.02.15.00-k1	10.02.15.00_k1-1.rhel9u6
170	Red Hat Enterprise Linux 9 Update 6 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters	kmod-qlgc-qla2xxx-10.02.15.00_k1-1.rhel9u6.x86_64.rpm	HPE SN1700Q 64Gb 1p FC HBA	10.02.15.00-k1	10.02.15.00_k1-1.rhel9u6
171	Red Hat Enterprise Linux 9 Update 6 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters	kmod-qlgc-qla2xxx-10.02.15.00_k1-1.rhel9u6.x86_64.rpm	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	10.02.15.00-k1	10.02.15.00_k1-1.rhel9u6
172	Red Hat Enterprise Linux 9 Update 6 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters	kmod-qlgc-qla2xxx-10.02.15.00_k1-1.rhel9u6.x86_64.rpm	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	10.02.15.00-k1	10.02.15.00_k1-1.rhel9u6

6.2.8 Driver - System Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
173	iLO 7 Automatic Server Recovery Driver for Microsoft Windows Server 2022 and 2025	cp069744.exe	-	4.8.0.0 (E)	4.8.0.0
174	iLO 7 Channel Interface Driver for Microsoft Windows Server 2022 and 2025	cp069743.exe	-	4.8.0.0 (E)	4.8.0.0

6.2.9 Driver – Video

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
175	Matrox G200eH3 Video Controller Driver for Microsoft Windows Server 2019, 2022 and 2025	cp069678.exe	-	9.15.1.268 (F)	9.15.1.268
176	Matrox G200eH5 Video Controller Driver for Microsoft Windows Server 2022 and 2025	cp069745.exe	-	9.15.1.271 (D)	9.15.1.271

6.2.10 Firmware - Lights-Out Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
177	Hitachi Online ROM Flash Firmware Package - iLO 7	ilo7_1.20.00.fwpkg	-	1.20.00	1.20.00_pass_57 Feb 12 2026
178	Language Pack - Japanese	lang_ja_120.lpk.fwpkg	-	1.20.00	1.20.11.00 Mar 12 2026

6.2.11 Firmware – Network

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
179	Broadcom Firmware Package for BCM5741x adapters	bcm235.1.164.14.fwpkg	BCM 57414 10/25GbE 2p SFP28 Adptr	235.1.164.14	235.1.164.14
180	Broadcom Firmware Package for BCM5741x adapters	bcm235.1.164.14.fwpkg	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	235.1.164.14	235.1.164.14
181	Broadcom Firmware Package for BCM5741x adapters	bcm235.1.164.14.fwpkg	BCM 57416 10GbE 2p BASE-T Adptr	235.1.164.14	235.1.164.14

182	Broadcom Firmware Package for BCM5741x adapters	bcm235.1.164.14.fwpkg	BCM 57412 10GbE 2p SFP+ Adptr	235.1.164.14	235.1.164.14
183	Broadcom Firmware Package for BCM5741x adapters	bcm235.1.164.14.fwpkg	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	235.1.164.14	235.1.164.14
184	Broadcom Firmware Package for BCM5741x adapters	bcm235.1.164.14.fwpkg	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	235.1.164.14	235.1.164.14
185	Broadcom Firmware Package for BCM5750x adapters	bcm235.1.164.7_Thor.fwpkg	BCM 57504 10/25GbE 4p SFP28 Adptr	235.1.164.7	235.1.164.7
186	Broadcom Firmware Package for BCM5750x adapters	bcm235.1.164.7_Thor.fwpkg	BCM 57504 10/25GbE 4p SFP28 OCP3 Adptr	235.1.164.7	235.1.164.7
187	Broadcom Firmware Package for BCM57608 100GbE 2p Adapter	BCM235.1.164.14_BCM957608-P2100HQF00.fwpkg	Broadcom NetXtreme-E BCM57608 100GbE 2p QSFP112 Adptr	235.1.164.14	235.1.164.14
188	Broadcom Firmware Package for BCM57608 100GbE 2p OCP3 Adapter	BCM235.1.164.14_BCM957608-N2100HQI00.fwpkg	Broadcom NetXtreme-E BCM57608 100GbE QSFP112 OCP3 Adptr	235.1.164.14	235.1.164.14
189	Broadcom NX1 Firmware Package for BCM5719 OCP3 adapter	BCM5719N1905HC-4x1G-20.35.41.fwpkg	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE	20.35.41	20.35.41
190	Broadcom NX1 Firmware Package for BCM5719 adapter	BCM5719A1907HC-4x1G-20.35.41.fwpkg	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE	20.35.41	20.35.41
191	Intel Firmware Package For E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter	HPE_E810_CQDA2_4p91_PLDMoMCTP_800214AF.fwpkg	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	4.91	4.91
192	Intel Firmware Package For E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter	HPE_E810_CQDA2_OCP_4p91_NCSIwPLDMoMCTP_800214AD.fwpkg	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	4.91	4.91
193	Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter	HPE_E810_XXVDA2_SD_4p91_PLDMoMCTP_800214AB.fwpkg	Intel E810-XXVDA2 adapter	4.91	4.91
194	Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter	HPE_E810_XXVDA2_SD_OCP_4p91_NCSIwPLDMoMCTP_800214B2.fwpkg	Intel E810-XXVDA2 OCP3 adapter	4.91	4.91
195	Intel Firmware Package For E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter	HPE_E810_XXVDA4_FH_4p91_PLDMoMCTP_800214B3.fwpkg	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	4.91	4.91
196	NVIDIA Firmware Package (FWPKG) - Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	26_46_3048-MCX631102AS-ADA_Ax.pldm.fwpkg	MLX MCX631102 10/25GbE 2p SFP28 Adptr	26.46.3048	26.46.3048
197	NVIDIA Firmware Package (FWPKG) - Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	26_46_3048-MCX631432AS-ADA_Ax.pldm.fwpkg	MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr	26.46.3048	26.46.3048
198	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_47_1026-MCX75310AAS-NEAT_HPE2_Ax.pldm.fwpkg	HPE IB NDR/EN 400G 1p OSFP Adptr	28.47.1026	28.47.1026
199	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_47_1026-MCX75310AAS-HEAT_HPE2_Ax.pldm.fwpkg	HPE IB NDR200/EN 200G 1p OSFP Adptr	28.47.1026	28.47.1026
200	NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR200/Ethernet 200GbE 2-port QSFP112 PCIe5 x16 MCX755106AC-HEAT Adapter : HPE part	28_47_1026-MCX755106AC-HEAT_HPE_Ax.pldm.fwpkg	HPE IB NDR200/EN 200G 2p QSFP112 Adptr	28.47.1026	28.47.1026

	numbers P65333-B21 and P65333-H21				
201	NVIDIA Firmware Package (FWPKG) for Mellanox MCX623106AS-CDAT Ethernet 100Gb 2-port QSFP56 Adapter for HPE	22_46_3048-MCX623106AS-CDA_Ax.pldm.fwpkg	HPE Ethernet 100Gb 2-port QSFP56 MCX623106AS-CDAT Adapter	22.46.3048	22.46.3048

6.2.12 Firmware - PCIe NVMe Storage Disk

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
202	Universal Firmware Package for Drives - VR000480KXNXE,VR000960KXNZU and VS001920KXNXF	Micron_7450_M7450ALLHPK4.fwpkg	VR000480KXNXE	HPK4	HPK4
203	Universal Firmware Package for Drives - VR000480KXNXE,VR000960KXNZU and VS001920KXNXF	Micron_7450_M7450ALLHPK4.fwpkg	VR000960KXNZU	HPK4	HPK4
204	Universal Firmware Package for Drives - VR000480KXNXE,VR000960KXNZU and VS001920KXNXF	Micron_7450_M7450ALLHPK4.fwpkg	VS001920KXNXF	HPK4	HPK4
205	Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ	SKHynix_PE81X0_KPE81X0AHPK2.fwpkg	MO000800KXPRV	HPK2	HPK2
206	Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ	SKHynix_PE81X0_KPE81X0AHPK2.fwpkg	MO001600KXPTR	HPK2	HPK2
207	Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ	SKHynix_PE81X0_KPE81X0AHPK2.fwpkg	MO003200KXPTT	HPK2	HPK2
208	Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ	SKHynix_PE81X0_KPE81X0AHPK2.fwpkg	MO006400KXPTU	HPK2	HPK2
209	Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ	SKHynix_PE81X0_KPE81X0AHPK2.fwpkg	VO000960KXPRU	HPK2	HPK2
210	Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ	SKHynix_PE81X0_KPE81X0AHPK2.fwpkg	VO001920KXPTN	HPK2	HPK2
211	Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ	SKHynix_PE81X0_KPE81X0AHPK2.fwpkg	VO003840KXPTP	HPK2	HPK2
212	Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ	SKHynix_PE81X0_KPE81X0AHPK2.fwpkg	VO007680KXPTQ	HPK2	HPK2
213	Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ	Kioxia_CD8_KACD8ALSHPK2.fwpkg	MO000800KXUJT	HPK2	HPK2
214	Universal Firmware Package for Drives -	Kioxia_CD8_KACD8AL	MO001600KXUJU	HPK2	HPK2

	MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ	SHPK2.fwpkg			
215	Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ	Kioxia_CD8_KACD8ALSHPK2.fwpkg	MO003200KXUJV	HPK2	HPK2
216	Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ	Kioxia_CD8_KACD8ALSHPK2.fwpkg	MO006400KXUKA	HPK2	HPK2
217	Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ	Kioxia_CD8_KACD8ALSHPK2.fwpkg	VO000960KXUJN	HPK2	HPK2
218	Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ	Kioxia_CD8_KACD8ALSHPK2.fwpkg	VO001920KXUJP	HPK2	HPK2
219	Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ	Kioxia_CD8_KACD8ALSHPK2.fwpkg	VO003840KXUJQ	HPK2	HPK2
220	Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ	Kioxia_CD8_KACD8ALSHPK2.fwpkg	VO007680KXUJR	HPK2	HPK2
221	Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ	Kioxia_CD8_KACD8ALSHPK2.fwpkg	VO015360KYGZQ	HPK2	HPK2
222	Universal Firmware Package for Drives - MO000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP	Micron_7500_M7500ALLHPK6.fwpkg	MO006400KYDZU	HPK6	HPK6
223	Universal Firmware Package for Drives - MO000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP	Micron_7500_M7500ALLHPK6.fwpkg	MO003200KYDZT	HPK6	HPK6
224	Universal Firmware Package for Drives - MO000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP	Micron_7500_M7500ALLHPK6.fwpkg	MO001600KYDZR	HPK6	HPK6
225	Universal Firmware Package for Drives -	Micron_7500_M7500	MO000800KYDZK	HPK6	HPK6

	MO000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP	ALLHPK6.fwpkg			
226	Universal Firmware Package for Drives - MO000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP	Micron_7500_M7500 ALLHPK6.fwpkg	VO007680KYDZP	HPK6	HPK6
227	Universal Firmware Package for Drives - MO000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP	Micron_7500_M7500 ALLHPK6.fwpkg	VO003840KYDZN	HPK6	HPK6
228	Universal Firmware Package for Drives - MO000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP	Micron_7500_M7500 ALLHPK6.fwpkg	VO001920KYDZL	HPK6	HPK6
229	Universal Firmware Package for Drives - MO000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP	Micron_7500_M7500 ALLHPK6.fwpkg	VO000960KYDZH	HPK6	HPK6
230	Universal Firmware Package for Drives - MO000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP	Micron_7500_M7500 ALLHPK6.fwpkg	VO001536KYDZQ	HPK6	HPK6
231	Universal Firmware Package for Drives - MO001600KXVYH, MO003200KXVZD, MO006400KXVZE, VO001920KXVYF, VO003840KXVZA, VO007680KXVZB and VO015360KXVZC	Kioxia_CM7_KACM7A LSHPK4.fwpkg	MO001600KXVYH	HPK4	HPK4
232	Universal Firmware Package for Drives - MO001600KXVYH, MO003200KXVZD, MO006400KXVZE, VO001920KXVYF, VO003840KXVZA, VO007680KXVZB and VO015360KXVZC	Kioxia_CM7_KACM7A LSHPK4.fwpkg	MO003200KXVZD	HPK4	HPK4
233	Universal Firmware Package for Drives - MO001600KXVYH, MO003200KXVZD, MO006400KXVZE, VO001920KXVYF, VO003840KXVZA, VO007680KXVZB and VO015360KXVZC	Kioxia_CM7_KACM7A LSHPK4.fwpkg	MO006400KXVZE	HPK4	HPK4
234	Universal Firmware Package for Drives - MO001600KXVYH, MO003200KXVZD, MO006400KXVZE, VO001920KXVYF, VO003840KXVZA, VO007680KXVZB and VO015360KXVZC	Kioxia_CM7_KACM7A LSHPK4.fwpkg	VO001920KXVYF	HPK4	HPK4
235	Universal Firmware Package for Drives - MO001600KXVYH, MO003200KXVZD, MO006400KXVZE, VO001920KXVYF, VO003840KXVZA, VO007680KXVZB and VO015360KXVZC	Kioxia_CM7_KACM7A LSHPK4.fwpkg	VO003840KXVZA	HPK4	HPK4
236	Universal Firmware Package for Drives - MO001600KXVYH, MO003200KXVZD, MO006400KXVZE, VO001920KXVYF, VO003840KXVZA, VO007680KXVZB and VO015360KXVZC	Kioxia_CM7_KACM7A LSHPK4.fwpkg	VO007680KXVZB	HPK4	HPK4
237	Universal Firmware Package for Drives -	Kioxia_CM7_KACM7A	VO015360KXVZC	HPK4	HPK4

	MO001600KXVYH, MO003200KXVZD, MO006400KXVZE, VO001920KXVYF, VO003840KXVZA, VO007680KXVZB and VO015360KXVZC	LSHPK4.fwpkg			
238	Universal Firmware Package for Drives - MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO001920KYDMT, VO003840KYDMV, VO007680KYDNA and VO015360KYDNB	Samsung_PM173X_GPM173XAHPK6.fwpkg	MO001600KYDMU	HPK6	HPK6
239	Universal Firmware Package for Drives - MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO001920KYDMT, VO003840KYDMV, VO007680KYDNA and VO015360KYDNB	Samsung_PM173X_GPM173XAHPK6.fwpkg	MO003200KYDNC	HPK6	HPK6
240	Universal Firmware Package for Drives - MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO001920KYDMT, VO003840KYDMV, VO007680KYDNA and VO015360KYDNB	Samsung_PM173X_GPM173XAHPK6.fwpkg	MO006400KYDND	HPK6	HPK6
241	Universal Firmware Package for Drives - MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO001920KYDMT, VO003840KYDMV, VO007680KYDNA and VO015360KYDNB	Samsung_PM173X_GPM173XAHPK6.fwpkg	VO001920KYDMT	HPK6	HPK6
242	Universal Firmware Package for Drives - MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO001920KYDMT, VO003840KYDMV, VO007680KYDNA and VO015360KYDNB	Samsung_PM173X_GPM173XAHPK6.fwpkg	VO003840KYDMV	HPK6	HPK6
243	Universal Firmware Package for Drives - MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO001920KYDMT, VO003840KYDMV, VO007680KYDNA and VO015360KYDNB	Samsung_PM173X_GPM173XAHPK6.fwpkg	VO007680KYDNA	HPK6	HPK6
244	Universal Firmware Package for Drives - MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO001920KYDMT, VO003840KYDMV, VO007680KYDNA and VO015360KYDNB	Samsung_PM173X_GPM173XAHPK6.fwpkg	VO015360KYDNB	HPK6	HPK6
245	Universal Firmware Package for Drives - MO001600KYFFF, MO003200KYFET, MO006400KYFEU, VO001920KYFFE, VO003840KYFEP, VO007680KYFEQ and VO015360KYFER	SKHynix_PS10x0_KPS10x0U3DK2.fwpkg	VO015360KYFER	HPK2	HPK2
246	Universal Firmware Package for Drives - MO001600KYFFF, MO003200KYFET, MO006400KYFEU, VO001920KYFFE, VO003840KYFEP, VO007680KYFEQ and VO015360KYFER	SKHynix_PS10x0_KPS10x0U3DK2.fwpkg	VO007680KYFEQ	HPK2	HPK2
247	Universal Firmware Package for Drives - MO001600KYFFF, MO003200KYFET, MO006400KYFEU, VO001920KYFFE, VO003840KYFEP, VO007680KYFEQ and VO015360KYFER	SKHynix_PS10x0_KPS10x0U3DK2.fwpkg	VO003840KYFEP	HPK2	HPK2
248	Universal Firmware Package for Drives - MO001600KYFFF, MO003200KYFET, MO006400KYFEU, VO001920KYFFE, VO003840KYFEP, VO007680KYFEQ and VO015360KYFER	SKHynix_PS10x0_KPS10x0U3DK2.fwpkg	VO001920KYFFE	HPK2	HPK2
249	Universal Firmware Package for Drives - MO001600KYFFF, MO003200KYFET, MO006400KYFEU, VO001920KYFFE, VO003840KYFEP, VO007680KYFEQ and VO015360KYFER	SKHynix_PS10x0_KPS10x0U3DK2.fwpkg	MO006400KYFEU	HPK2	HPK2
250	Universal Firmware Package for Drives - MO001600KYFFF, MO003200KYFET,	SKHynix_PS10x0_KPS10x0U3DK2.fwpkg	MO003200KYFET	HPK2	HPK2

	MO006400KYFEU, VO001920KYFFE, VO003840KYFEP, VO007680KYFEQ and VO015360KYFER				
251	Universal Firmware Package for Drives - MO001600KYFFF, MO003200KYFET, MO006400KYFEU, VO001920KYFFE, VO003840KYFEP, VO007680KYFEQ and VO015360KYFER	SKHynix_PS10x0_KPS 10x0U3DK2.fwpkg	MO001600KYFFF	HPK2	HPK2
252	Universal Firmware Package for Drives - MO001600KYLEC, MO003200KYLHL, MO006400KYLHN, VO001920KYLEB, VO003840KYLHF, VO007680KYLHH and VO015360KYLHK	SKHynix_PE10X0_KPE 10x0U3DK1.fwpkg	MO001600KYLEC	HPK1	HPK1
253	Universal Firmware Package for Drives - MO001600KYLEC, MO003200KYLHL, MO006400KYLHN, VO001920KYLEB, VO003840KYLHF, VO007680KYLHH and VO015360KYLHK	SKHynix_PE10X0_KPE 10x0U3DK1.fwpkg	MO003200KYLHL	HPK1	HPK1
254	Universal Firmware Package for Drives - MO001600KYLEC, MO003200KYLHL, MO006400KYLHN, VO001920KYLEB, VO003840KYLHF, VO007680KYLHH and VO015360KYLHK	SKHynix_PE10X0_KPE 10x0U3DK1.fwpkg	MO006400KYLHN	HPK1	HPK1
255	Universal Firmware Package for Drives - MO001600KYLEC, MO003200KYLHL, MO006400KYLHN, VO001920KYLEB, VO003840KYLHF, VO007680KYLHH and VO015360KYLHK	SKHynix_PE10X0_KPE 10x0U3DK1.fwpkg	VO001920KYLEB	HPK1	HPK1
256	Universal Firmware Package for Drives - MO001600KYLEC, MO003200KYLHL, MO006400KYLHN, VO001920KYLEB, VO003840KYLHF, VO007680KYLHH and VO015360KYLHK	SKHynix_PE10X0_KPE 10x0U3DK1.fwpkg	VO003840KYLHF	HPK1	HPK1
257	Universal Firmware Package for Drives - MO001600KYLEC, MO003200KYLHL, MO006400KYLHN, VO001920KYLEB, VO003840KYLHF, VO007680KYLHH and VO015360KYLHK	SKHynix_PE10X0_KPE 10x0U3DK1.fwpkg	VO007680KYLHH	HPK1	HPK1
258	Universal Firmware Package for Drives - MO001600KYLEC, MO003200KYLHL, MO006400KYLHN, VO001920KYLEB, VO003840KYLHF, VO007680KYLHH and VO015360KYLHK	SKHynix_PE10X0_KPE 10x0U3DK1.fwpkg	VO015360KYLHK	HPK1	HPK1
259	Universal Firmware Package for Drives - MO001600KZYWU, MO003200KZYXB, MO006400KZYXC, VO001920KZYWT, VO003840KZYWV and VO007680KZYXA	Solidigm_P5x20_4IAA HPK5.fwpkg	MO001600KZYWU	HPK5	HPK5
260	Universal Firmware Package for Drives - MO001600KZYWU, MO003200KZYXB, MO006400KZYXC, VO001920KZYWT, VO003840KZYWV and VO007680KZYXA	Solidigm_P5x20_4IAA HPK5.fwpkg	MO003200KZYXB	HPK5	HPK5
261	Universal Firmware Package for Drives - MO001600KZYWU, MO003200KZYXB, MO006400KZYXC, VO001920KZYWT, VO003840KZYWV and VO007680KZYXA	Solidigm_P5x20_4IAA HPK5.fwpkg	MO006400KZYXC	HPK5	HPK5
262	Universal Firmware Package for Drives - MO001600KZYWU, MO003200KZYXB, MO006400KZYXC, VO001920KZYWT, VO003840KZYWV and VO007680KZYXA	Solidigm_P5x20_4IAA HPK5.fwpkg	VO001920KZYWT	HPK5	HPK5
263	Universal Firmware Package for Drives - MO001600KZYWU, MO003200KZYXB, MO006400KZYXC, VO001920KZYWT, VO003840KZYWV and VO007680KZYXA	Solidigm_P5x20_4IAA HPK5.fwpkg	VO003840KZYWV	HPK5	HPK5
264	Universal Firmware Package for Drives - MO001600KZYWU, MO003200KZYXB, MO006400KZYXC, VO001920KZYWT,	Solidigm_P5x20_4IAA HPK5.fwpkg	VO007680KZYXA	HPK5	HPK5

	VO003840KZYWV and VO007680KZYXA				
265	Universal Firmware Package for Drives - MO001600YXUJB, MO003200YXUJC, MO006400YXUJD, VO001920YXUHU, VO003840YXUHV and VO007680YXUJA	Kioxia_CM7_KACM7ALFHPK4.fwpkg	MO001600YXUJB	HPK4	HPK4
266	Universal Firmware Package for Drives - MO001600YXUJB, MO003200YXUJC, MO006400YXUJD, VO001920YXUHU, VO003840YXUHV and VO007680YXUJA	Kioxia_CM7_KACM7ALFHPK4.fwpkg	MO003200YXUJC	HPK4	HPK4
267	Universal Firmware Package for Drives - MO001600YXUJB, MO003200YXUJC, MO006400YXUJD, VO001920YXUHU, VO003840YXUHV and VO007680YXUJA	Kioxia_CM7_KACM7ALFHPK4.fwpkg	MO006400YXUJD	HPK4	HPK4
268	Universal Firmware Package for Drives - MO001600YXUJB, MO003200YXUJC, MO006400YXUJD, VO001920YXUHU, VO003840YXUHV and VO007680YXUJA	Kioxia_CM7_KACM7ALFHPK4.fwpkg	VO001920YXUHU	HPK4	HPK4
269	Universal Firmware Package for Drives - MO001600YXUJB, MO003200YXUJC, MO006400YXUJD, VO001920YXUHU, VO003840YXUHV and VO007680YXUJA	Kioxia_CM7_KACM7ALFHPK4.fwpkg	VO003840YXUHV	HPK4	HPK4
270	Universal Firmware Package for Drives - MO001600YXUJB, MO003200YXUJC, MO006400YXUJD, VO001920YXUHU, VO003840YXUHV and VO007680YXUJA	Kioxia_CM7_KACM7ALFHPK4.fwpkg	VO007680YXUJA	HPK4	HPK4
271	Universal Firmware Package for Drives - MV001600KYNVA, MV003200KYNVC, MV006400KYNVD, VV001920KYNVB, VV003840KYNVE, VV007680KYNVF and VV015360KYNVH	SKHynix_PE10X0_KPE10x0E3SK2.fwpkg	VV015360KYNVH	HPK2	HPK2
272	Universal Firmware Package for Drives - MV001600KYNVA, MV003200KYNVC, MV006400KYNVD, VV001920KYNVB, VV003840KYNVE, VV007680KYNVF and VV015360KYNVH	SKHynix_PE10X0_KPE10x0E3SK2.fwpkg	VV007680KYNVF	HPK2	HPK2
273	Universal Firmware Package for Drives - MV001600KYNVA, MV003200KYNVC, MV006400KYNVD, VV001920KYNVB, VV003840KYNVE, VV007680KYNVF and VV015360KYNVH	SKHynix_PE10X0_KPE10x0E3SK2.fwpkg	VV003840KYNVE	HPK2	HPK2
274	Universal Firmware Package for Drives - MV001600KYNVA, MV003200KYNVC, MV006400KYNVD, VV001920KYNVB, VV003840KYNVE, VV007680KYNVF and VV015360KYNVH	SKHynix_PE10X0_KPE10x0E3SK2.fwpkg	VV001920KYNVB	HPK2	HPK2
275	Universal Firmware Package for Drives - MV001600KYNVA, MV003200KYNVC, MV006400KYNVD, VV001920KYNVB, VV003840KYNVE, VV007680KYNVF and VV015360KYNVH	SKHynix_PE10X0_KPE10x0E3SK2.fwpkg	MV006400KYNVD	HPK2	HPK2
276	Universal Firmware Package for Drives - MV001600KYNVA, MV003200KYNVC, MV006400KYNVD, VV001920KYNVB, VV003840KYNVE, VV007680KYNVF and VV015360KYNVH	SKHynix_PE10X0_KPE10x0E3SK2.fwpkg	MV003200KYNVC	HPK2	HPK2
277	Universal Firmware Package for Drives - MV001600KYNVA, MV003200KYNVC, MV006400KYNVD, VV001920KYNVB, VV003840KYNVE, VV007680KYNVF and VV015360KYNVH	SKHynix_PE10X0_KPE10x0E3SK2.fwpkg	MV001600KYNVA	HPK2	HPK2
278	Universal Firmware Package for Drives - MV001600LYCBT, MV003200LYCBA, MV006400LYCBB, VV015360LYHDC, VV001920LYCBR, VV003840LYCAU and VV007680LYCAV	Kioxia_CD8P_KACD8ALEHPK3.fwpkg	VV015360LYHDC	HPK3 (B)	HPK3
279	Universal Firmware Package for Drives -	Kioxia_CD8P_KACD8A	MV006400LYCBB	HPK3 (B)	HPK3

	MV001600LYCBT, MV003200LYCBA, MV006400LYCBB, VV015360LYHDC, VV001920LYCBR, VV003840LYCAU and VV007680LYCAV	LEHPK3.fwpkg			
280	Universal Firmware Package for Drives - MV001600LYCBT, MV003200LYCBA, MV006400LYCBB, VV015360LYHDC, VV001920LYCBR, VV003840LYCAU and VV007680LYCAV	Kioxia_CD8P_KACD8ALEHPK3.fwpkg	MV003200LYCBA	HPK3 (B)	HPK3
281	Universal Firmware Package for Drives - MV001600LYCBT, MV003200LYCBA, MV006400LYCBB, VV015360LYHDC, VV001920LYCBR, VV003840LYCAU and VV007680LYCAV	Kioxia_CD8P_KACD8ALEHPK3.fwpkg	MV001600LYCBT	HPK3 (B)	HPK3
282	Universal Firmware Package for Drives - MV001600LYCBT, MV003200LYCBA, MV006400LYCBB, VV015360LYHDC, VV001920LYCBR, VV003840LYCAU and VV007680LYCAV	Kioxia_CD8P_KACD8ALEHPK3.fwpkg	VV001920LYCBR	HPK3 (B)	HPK3
283	Universal Firmware Package for Drives - MV001600LYCBT, MV003200LYCBA, MV006400LYCBB, VV015360LYHDC, VV001920LYCBR, VV003840LYCAU and VV007680LYCAV	Kioxia_CD8P_KACD8ALEHPK3.fwpkg	VV003840LYCAU	HPK3 (B)	HPK3
284	Universal Firmware Package for Drives - MV001600LYCBT, MV003200LYCBA, MV006400LYCBB, VV015360LYHDC, VV001920LYCBR, VV003840LYCAU and VV007680LYCAV	Kioxia_CD8P_KACD8ALEHPK3.fwpkg	VV007680LYCAV	HPK3 (B)	HPK3
285	Universal Firmware Package for Drives - MV003200KYFFK, MV006400KYFFA, MV012800KYFFB, VV003840KYFFH, VV007680KYFFL and VV015360KYFEV	SKHynix_PS10x0_E3S_KPS10x0E3SK4.fwpkg	MV003200KYFFK	HPK4	HPK4
286	Universal Firmware Package for Drives - MV003200KYFFK, MV006400KYFFA, MV012800KYFFB, VV003840KYFFH, VV007680KYFFL and VV015360KYFEV	SKHynix_PS10x0_E3S_KPS10x0E3SK4.fwpkg	MV006400KYFFA	HPK4	HPK4
287	Universal Firmware Package for Drives - MV003200KYFFK, MV006400KYFFA, MV012800KYFFB, VV003840KYFFH, VV007680KYFFL and VV015360KYFEV	SKHynix_PS10x0_E3S_KPS10x0E3SK4.fwpkg	MV012800KYFFB	HPK4	HPK4
288	Universal Firmware Package for Drives - MV003200KYFFK, MV006400KYFFA, MV012800KYFFB, VV003840KYFFH, VV007680KYFFL and VV015360KYFEV	SKHynix_PS10x0_E3S_KPS10x0E3SK4.fwpkg	VV003840KYFFH	HPK4	HPK4
289	Universal Firmware Package for Drives - MV003200KYFFK, MV006400KYFFA, MV012800KYFFB, VV003840KYFFH, VV007680KYFFL and VV015360KYFEV	SKHynix_PS10x0_E3S_KPS10x0E3SK4.fwpkg	VV007680KYFFL	HPK4	HPK4
290	Universal Firmware Package for Drives - MV003200KYFFK, MV006400KYFFA, MV012800KYFFB, VV003840KYFFH, VV007680KYFFL and VV015360KYFEV	SKHynix_PS10x0_E3S_KPS10x0E3SK4.fwpkg	VV015360KYFEV	HPK4	HPK4
291	Universal Firmware Package for Drives - MV003200LXUJK, MV006400LXUJL, VV003840LXUJE, VV007680LXUJF and VV015360LXUJH	Kioxia_CM7_KACM7ALEHPK7.fwpkg	MV003200LXUJK	HPK7	HPK7
292	Universal Firmware Package for Drives - MV003200LXUJK, MV006400LXUJL, VV003840LXUJE, VV007680LXUJF and VV015360LXUJH	Kioxia_CM7_KACM7ALEHPK7.fwpkg	MV006400LXUJL	HPK7	HPK7
293	Universal Firmware Package for Drives - MV003200LXUJK, MV006400LXUJL, VV003840LXUJE, VV007680LXUJF and VV015360LXUJH	Kioxia_CM7_KACM7ALEHPK7.fwpkg	VV003840LXUJE	HPK7	HPK7
294	Universal Firmware Package for Drives -	Kioxia_CM7_KACM7A	VV007680LXUJF	HPK7	HPK7

	MV003200LXUJK, MV006400LXUJL, VV003840LXUJE, VV007680LXUJF and VV015360LXUJH	LEHPK7.fwpkg			
295	Universal Firmware Package for Drives - MV003200LXUJK, MV006400LXUJL, VV003840LXUJE, VV007680LXUJF and VV015360LXUJH	Kioxia_CM7_KACM7ALEHPK7.fwpkg	VV015360LXUJH	HPK7	HPK7
296	Universal Firmware Package for Drives - MV003200LYJKH, MV006400LYJKK, VV007680LYJKF and VV015360LYXMT	Kioxia_CM7_KACM7AEFHPK4.fwpkg	MV003200LYJKH	HPK4	HPK4
297	Universal Firmware Package for Drives - MV003200LYJKH, MV006400LYJKK, VV007680LYJKF and VV015360LYXMT	Kioxia_CM7_KACM7AEFHPK4.fwpkg	MV006400LYJKK	HPK4	HPK4
298	Universal Firmware Package for Drives - MV003200LYJKH, MV006400LYJKK, VV007680LYJKF and VV015360LYXMT	Kioxia_CM7_KACM7AEFHPK4.fwpkg	VV007680LYJKF	HPK4	HPK4
299	Universal Firmware Package for Drives - MV003200LYJKH, MV006400LYJKK, VV007680LYJKF and VV015360LYXMT	Kioxia_CM7_KACM7AEFHPK4.fwpkg	VV015360LYXMT	HPK4	HPK4
300	Universal Firmware Package for Drives - VK000960KYDPT, VK001920KYDPU, VK003840KYDPV and VK007680KYDQA	Samsung_PM9A3_GPM9A3SAHPK6.fwpkg	VK000960KYDPT	HPK6	HPK6
301	Universal Firmware Package for Drives - VK000960KYDPT, VK001920KYDPU, VK003840KYDPV and VK007680KYDQA	Samsung_PM9A3_GPM9A3SAHPK6.fwpkg	VK001920KYDPU	HPK6	HPK6
302	Universal Firmware Package for Drives - VK000960KYDPT, VK001920KYDPU, VK003840KYDPV and VK007680KYDQA	Samsung_PM9A3_GPM9A3SAHPK6.fwpkg	VK003840KYDPV	HPK6	HPK6
303	Universal Firmware Package for Drives - VK000960KYDPT, VK001920KYDPU, VK003840KYDPV and VK007680KYDQA	Samsung_PM9A3_GPM9A3SAHPK6.fwpkg	VK007680KYDQA	HPK6	HPK6
304	Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB	Micron_7450_Micron_7450_M7450ALLHPS3.fwpkg	VO001920KXNZQ	HPS3	HPS3
305	Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB	Micron_7450_Micron_7450_M7450ALLHPS3.fwpkg	VO003840KXNZR	HPS3	HPS3
306	Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB	Micron_7450_Micron_7450_M7450ALLHPS3.fwpkg	VO007680KXNZT	HPS3	HPS3
307	Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB	Micron_7450_Micron_7450_M7450ALLHPS3.fwpkg	MO000800KXNXH	HPS3	HPS3
308	Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB	Micron_7450_Micron_7450_M7450ALLHPS3.fwpkg	MO001600KXNZV	HPS3	HPS3
309	Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and	Micron_7450_Micron_7450_M7450ALLHPS3.fwpkg	MO003200KXPAA	HPS3	HPS3

	MO006400KXPAB				
310	Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB	Micron_7450_Micron_7450_M7450ALLHPS3.fwpkg	MO006400KXPAB	HPS3	HPS3
311	Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB	Micron_7450_Micron_7450_M7450ALLHPS3.fwpkg	VO000960KXNXD	HPS3	HPS3
312	Universal Firmware Package for Drives - VR000480KXLXF	Samsung_PM9A3_GPM9A3SAHPK4.fwpkg	VR000480KXLXF	HPK4	HPK4
313	Universal Firmware Package for Drives - VR000480KYXPQ, VR000960KYXQA and VR001920KYXQB	SKHynix_PE90X0_KPE9010IHPK2.fwpkg	VR000480KYXPQ	HPK2	HPK2
314	Universal Firmware Package for Drives - VR000480KYXPQ, VR000960KYXQA and VR001920KYXQB	SKHynix_PE90X0_KPE9010IHPK2.fwpkg	VR000960KYXQA	HPK2	HPK2
315	Universal Firmware Package for Drives - VR000480KYXPQ, VR000960KYXQA and VR001920KYXQB	SKHynix_PE90X0_KPE9010IHPK2.fwpkg	VR001920KYXQB	HPK2	HPK2
316	Universal Firmware Package for Drives - VR000960YYXPR	SKHynix_PE90X0_KPE9010SHPK2.fwpkg	VR000960YYXPR	HPK2	HPK2
317	Universal Firmware Package for Drives - VV001920KYMLU, VV003840KYMME, VV007680KYMMF and VV015360KYMMH	Samsung_PM9D3a_PM9D3AE3K5.fwpkg	VV001920KYMLU	HPK5	HPK5
318	Universal Firmware Package for Drives - VV001920KYMLU, VV003840KYMME, VV007680KYMMF and VV015360KYMMH	Samsung_PM9D3a_PM9D3AE3K5.fwpkg	VV003840KYMME	HPK5	HPK5
319	Universal Firmware Package for Drives - VV001920KYMLU, VV003840KYMME, VV007680KYMMF and VV015360KYMMH	Samsung_PM9D3a_PM9D3AE3K5.fwpkg	VV007680KYMMF	HPK5	HPK5
320	Universal Firmware Package for Drives - VV001920KYMLU, VV003840KYMME, VV007680KYMMF and VV015360KYMMH	Samsung_PM9D3a_PM9D3AE3K5.fwpkg	VV015360KYMMH	HPK5	HPK5
321	Universal Firmware Package for Drives - VV001920LYDTT, VV003840LYDTU and VV007680LYDTV	Kioxia_CD7_KACD7ALSHPK6.fwpkg	VV001920LYDTT	HPK6	HPK6
322	Universal Firmware Package for Drives - VV001920LYDTT, VV003840LYDTU and VV007680LYDTV	Kioxia_CD7_KACD7ALSHPK6.fwpkg	VV003840LYDTU	HPK6	HPK6
323	Universal Firmware Package for Drives - VV001920LYDTT, VV003840LYDTU and VV007680LYDTV	Kioxia_CD7_KACD7ALSHPK6.fwpkg	VV007680LYDTV	HPK6	HPK6
324	Universal Firmware Package for Drives - VV003840KXNTH, VV007680KXNTN and VV015360KXNTP	Samsung_PM1743_GPM1743HPK6.fwpkg	VV003840KXNTH	HPK6	HPK6
325	Universal Firmware Package for Drives - VV003840KXNTH, VV007680KXNTN and VV015360KXNTP	Samsung_PM1743_GPM1743HPK6.fwpkg	VV007680KXNTN	HPK6	HPK6
326	Universal Firmware Package for Drives - VV003840KXNTH, VV007680KXNTN and VV015360KXNTP	Samsung_PM1743_GPM1743HPK6.fwpkg	VV015360KXNTP	HPK6	HPK6
327	Universal Firmware Package for Drives - VV003840KXWBF, VV007680KXWBL and VV015360KXWBN	Solidigm_P5x30_SP54304KHPK8.fwpkg	VV003840KXWBF	HPK8	HPK8
328	Universal Firmware Package for Drives - VV003840KXWBF, VV007680KXWBL and VV015360KXWBN	Solidigm_P5x30_SP54304KHPK8.fwpkg	VV007680KXWBL	HPK8	HPK8

329	Universal Firmware Package for Drives - VV003840KXWBF, VV007680KXWBL and VV015360KXWBN	Solidigm_P5x30_SP54304KHPK8.fwpkg	VV015360KXWBN	HPK8	HPK8
330	Universal Firmware Package for Drives - VV030720KYNYP	Solidigm_P5x30_SP54308KHPK6.fwpkg	VV030720KYNYP	HPK6	HPK6

6.2.13 Firmware - SAS Storage Disk

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
331	Universal Firmware Package for Drive - MB016000JWXKH	Toshiba_MG08_TAMG08scHPDC.fwpkg	MB016000JWXKH	HPDC	HPDC
332	Universal Firmware Package for Drives - EG000600JWJNP, EG000600JXLVV, EG001200JWJNQ, EG001200JXLWA and EG001200MXJQU	Seagate_Skybolt_SSKYBT512ND9.fwpkg	EG000600JWJNP	HPD9	HPD9
333	Universal Firmware Package for Drives - EG000600JWJNP, EG000600JXLVV, EG001200JWJNQ, EG001200JXLWA and EG001200MXJQU	Seagate_Skybolt_SSKYBT512ND9.fwpkg	EG001200MXJQU	HPD9	HPD9
334	Universal Firmware Package for Drives - EG000600JWJNP, EG000600JXLVV, EG001200JWJNQ, EG001200JXLWA and EG001200MXJQU	Seagate_Skybolt_SSKYBT512ND9.fwpkg	EG001200JWJNQ	HPD9	HPD9
335	Universal Firmware Package for Drives - EG000600JWJNP, EG000600JXLVV, EG001200JWJNQ, EG001200JXLWA and EG001200MXJQU	Seagate_Skybolt_SSKYBT512ND9.fwpkg	EG000600JXLVV	HPD9	HPD9
336	Universal Firmware Package for Drives - EG000600JWJNP, EG000600JXLVV, EG001200JWJNQ, EG001200JXLWA and EG001200MXJQU	Seagate_Skybolt_SSKYBT512ND9.fwpkg	EG001200JXLWA	HPD9	HPD9
337	Universal Firmware Package for Drives - EG001800JWJNR, EG001800JXLWB, EG002400JWJNT, EG002400JXLWC and EG002400MXJQT	Seagate_Skybolt_SSKYBT512EDB.fwpkg	EG002400MXJQT	HPDB	HPDB
338	Universal Firmware Package for Drives - EG001800JWJNR, EG001800JXLWB, EG002400JWJNT, EG002400JXLWC and EG002400MXJQT	Seagate_Skybolt_SSKYBT512EDB.fwpkg	EG001800JWJNR	HPDB	HPDB
339	Universal Firmware Package for Drives - EG001800JWJNR, EG001800JXLWB, EG002400JWJNT, EG002400JXLWC and EG002400MXJQT	Seagate_Skybolt_SSKYBT512EDB.fwpkg	EG002400JWJNT	HPDB	HPDB
340	Universal Firmware Package for Drives - EG001800JWJNR, EG001800JXLWB, EG002400JWJNT, EG002400JXLWC and EG002400MXJQT	Seagate_Skybolt_SSKYBT512EDB.fwpkg	EG001800JXLWB	HPDB	HPDB
341	Universal Firmware Package for Drives - EG001800JWJNR, EG001800JXLWB, EG002400JWJNT, EG002400JXLWC and EG002400MXJQT	Seagate_Skybolt_SSKYBT512EDB.fwpkg	EG002400JXLWC	HPDB	HPDB
342	Universal Firmware Package for Drives - MB001000JWWPV, MB002000JWWQA and MB004000JWWQB	Seagate_Cimarron_SCIMARRNNSD8.fwpkg	MB001000JWWPV	HPD8	HPD8
343	Universal Firmware Package for Drives - MB001000JWWPV, MB002000JWWQA and MB004000JWWQB	Seagate_Cimarron_SCIMARRNNSD8.fwpkg	MB002000JWWQA	HPD8	HPD8
344	Universal Firmware Package for Drives - MB001000JWWPV, MB002000JWWQA and MB004000JWWQB	Seagate_Cimarron_SCIMARRNNSD8.fwpkg	MB004000JWWQB	HPD8	HPD8
345	Universal Firmware Package for Drives - MB002000JYDNE and MB004000JYDPB	Seagate_CimarronBP_SCIMARBPNSD6.fwpkg	MB002000JYDNE	HPD6	HPD6
346	Universal Firmware Package for Drives -	Seagate_CimarronBP_	MB004000JYDPB	HPD6	HPD6

	MB002000JYDNE and MB004000JYDPB	SCIMARBPNSD6.fwpkg			
347	Universal Firmware Package for Drives - MB004000JWZVU	Toshiba_MG08Air_TAMG08SDAnD3.fwpkg	MB004000JWZVU	HPD3 (B)	HPD3
348	Universal Firmware Package for Drives - MB006000JWZVQ and MB008000JWZVR	Toshiba_MG08Air_TAMG08SDAeD3.fwpkg	MB006000JWZVQ	HPD3 (B)	HPD3
349	Universal Firmware Package for Drives - MB006000JWZVQ and MB008000JWZVR	Toshiba_MG08Air_TAMG08SDAeD3.fwpkg	MB008000JWZVR	HPD3 (B)	HPD3
350	Universal Firmware Package for Drives - MB006000JYDNF, MB008000JYDPC and MB010000JYDNH	Seagate_CimarronBP_SCIMARBPESD5.fwpkg	MB008000JYDPC	HPD5	HPD5
351	Universal Firmware Package for Drives - MB006000JYDNF, MB008000JYDPC and MB010000JYDNH	Seagate_CimarronBP_SCIMARBPESD5.fwpkg	MB006000JYDNF	HPD5	HPD5
352	Universal Firmware Package for Drives - MB006000JYDNF, MB008000JYDPC and MB010000JYDNH	Seagate_CimarronBP_SCIMARBPESD5.fwpkg	MB010000JYDNH	HPD5	HPD5
353	Universal Firmware Package for Drives - MB008000JWWQP and MB006000JWWQN	Seagate_Cimarron_SCIMARRNESD8.fwpkg	MB008000JWWQP	HPD8	HPD8
354	Universal Firmware Package for Drives - MB008000JWWQP and MB006000JWWQN	Seagate_Cimarron_SCIMARRNESD8.fwpkg	MB006000JWWQN	HPD8	HPD8
355	Universal Firmware Package for Drives - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE	Seagate_Evans_SHPEEVANSSD4.fwpkg	MB012000JWZHB	HPD4	HPD4
356	Universal Firmware Package for Drives - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE	Seagate_Evans_SHPEEVANSSD4.fwpkg	MB010000JWZHA	HPD4	HPD4
357	Universal Firmware Package for Drives - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE	Seagate_Evans_SHPEEVANSSD4.fwpkg	MB014000JWZHC	HPD4	HPD4
358	Universal Firmware Package for Drives - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE	Seagate_Evans_SHPEEVANSSD4.fwpkg	MB016000JWZHE	HPD4	HPD4
359	Universal Firmware Package for Drives - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN	Seagate_EvansBP_SHPEEVSBPSD6.fwpkg	MB010000JYDKK	HPD6	HPD6
360	Universal Firmware Package for Drives - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN	Seagate_EvansBP_SHPEEVSBPSD6.fwpkg	MB012000JYCJF	HPD6	HPD6
361	Universal Firmware Package for Drives - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN	Seagate_EvansBP_SHPEEVSBPSD6.fwpkg	MB014000JYCJV	HPD6	HPD6
362	Universal Firmware Package for Drives - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN	Seagate_EvansBP_SHPEEVSBPSD6.fwpkg	MB016000JYDKL	HPD6	HPD6
363	Universal Firmware Package for Drives - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN	Seagate_EvansBP_SHPEEVSBPSD6.fwpkg	MB018000JYDKN	HPD6	HPD6
364	Universal Firmware Package for Drives - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK	Toshiba_MG09_TAMG09scHPD4.fwpkg	MB012000JZYVN	HPD4	HPD4
365	Universal Firmware Package for Drives - MB012000JZYVN, MB014000JZYVP,	Toshiba_MG09_TAMG09scHPD4.fwpkg	MB014000JZYVP	HPD4	HPD4

	MB016000JZYVQ and MB018000JYCLK				
366	Universal Firmware Package for Drives - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK	Toshiba_MG09_TAMG09scHPD4.fwpkg	MB016000JZYVQ	HPD4	HPD4
367	Universal Firmware Package for Drives - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK	Toshiba_MG09_TAMG09scHPD4.fwpkg	MB018000JYCLK	HPD4	HPD4
368	Universal Firmware Package for Drives - MB014000JXUCC	WDC_ParisC_PCHFA2BP.fwpkg	MB014000JXUCC	HPD4	HPD4
369	Universal Firmware Package for Drives - MB016000JXLBA and MB018000JXLAU	WDC_ParisC_PCHFA2B3.fwpkg	MB018000JXLAU	HPD3	HPD3
370	Universal Firmware Package for Drives - MB016000JXLBA and MB018000JXLAU	WDC_ParisC_PCHFA2B3.fwpkg	MB016000JXLBA	HPD3	HPD3
371	Universal Firmware Package for Drives - MB018000JXMTH and MB020000JXMTP	Seagate_Longspeak_SLONGSPKESD3.fwpkg	MB018000JXMTH	HPD3	HPD3
372	Universal Firmware Package for Drives - MB018000JXMTH and MB020000JXMTP	Seagate_Longspeak_SLONGSPKESD3.fwpkg	MB020000JXMTP	HPD3	HPD3
373	Universal Firmware Package for Drives - MB020000JXMVU	WDC_ParisD_WparisdASFD1.fwpkg	MB020000JXMVU	HPD1 (B)	HPD1
374	Universal Firmware Package for Drives - MB12000JYESN, MB16000JYEVC, MB20000JYEVD	Seagate_Summit_SUMMITSUSND3.fwpkg	MB12000JYESN	HPD3	HPD3
375	Universal Firmware Package for Drives - MB12000JYESN, MB16000JYEVC, MB20000JYEVD	Seagate_Summit_SUMMITSUSND3.fwpkg	MB16000JYEVC	HPD3	HPD3
376	Universal Firmware Package for Drives - MB12000JYESN, MB16000JYEVC, MB20000JYEVD	Seagate_Summit_SUMMITSUSND3.fwpkg	MB20000JYEVD	HPD3	HPD3
377	Universal Firmware Package for Drives - MB24000JYEVE	Seagate_Summit_SUMMITSUSSD3.fwpkg	MB24000JYEVE	HPD3	HPD3
378	Universal Firmware Package for Drives - MO000960RXKRC, MO001920RXKRH, MO003840RXKRK, VO000960RXKRB, VO001920RXKRD and VO003840RXKRE	Seagate_LangeBP_SLNGBPHPESD5.fwpkg	MO000960RXKRC	HPD5 (B)	HPD5
379	Universal Firmware Package for Drives - MO000960RXKRC, MO001920RXKRH, MO003840RXKRK, VO000960RXKRB, VO001920RXKRD and VO003840RXKRE	Seagate_LangeBP_SLNGBPHPESD5.fwpkg	MO001920RXKRH	HPD5 (B)	HPD5
380	Universal Firmware Package for Drives - MO000960RXKRC, MO001920RXKRH, MO003840RXKRK, VO000960RXKRB, VO001920RXKRD and VO003840RXKRE	Seagate_LangeBP_SLNGBPHPESD5.fwpkg	MO003840RXKRK	HPD5 (B)	HPD5
381	Universal Firmware Package for Drives - MO000960RXKRC, MO001920RXKRH, MO003840RXKRK, VO000960RXKRB, VO001920RXKRD and VO003840RXKRE	Seagate_LangeBP_SLNGBPHPESD5.fwpkg	VO000960RXKRB	HPD5 (B)	HPD5
382	Universal Firmware Package for Drives - MO000960RXKRC, MO001920RXKRH, MO003840RXKRK, VO000960RXKRB, VO001920RXKRD and VO003840RXKRE	Seagate_LangeBP_SLNGBPHPESD5.fwpkg	VO001920RXKRD	HPD5 (B)	HPD5
383	Universal Firmware Package for Drives - MO000960RXKRC, MO001920RXKRH, MO003840RXKRK, VO000960RXKRB, VO001920RXKRD and VO003840RXKRE	Seagate_LangeBP_SLNGBPHPESD5.fwpkg	VO003840RXKRE	HPD5 (B)	HPD5
384	Universal Firmware Package for Drives - MO000960RXRQK, MO001920RXRRH, MO003840RXRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD	Seagate_Cooper_SCOOPRHPESD4.fwpkg	MO000960RXRQK	HPD4 (B)	HPD4
385	Universal Firmware Package for Drives - MO000960RXRQK, MO001920RXRRH, MO003840RXRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD	Seagate_Cooper_SCOOPRHPESD4.fwpkg	MO001920RXRRH	HPD4 (B)	HPD4

386	Universal Firmware Package for Drives - MO000960RXRQK, MO001920RXRRH, MO003840RXRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD	Seagate_Cooper_SCOOPRHPESD4.fwpkg	MO003840RXRRK	HPD4 (B)	HPD4
387	Universal Firmware Package for Drives - MO000960RXRQK, MO001920RXRRH, MO003840RXRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD	Seagate_Cooper_SCOOPRHPESD4.fwpkg	VO000960RXRQL	HPD4 (B)	HPD4
388	Universal Firmware Package for Drives - MO000960RXRQK, MO001920RXRRH, MO003840RXRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD	Seagate_Cooper_SCOOPRHPESD4.fwpkg	VO001920RXRRL	HPD4 (B)	HPD4
389	Universal Firmware Package for Drives - MO000960RXRQK, MO001920RXRRH, MO003840RXRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD	Seagate_Cooper_SCOOPRHPESD4.fwpkg	VO003840RXRRN	HPD4 (B)	HPD4
390	Universal Firmware Package for Drives - MO000960RXRQK, MO001920RXRRH, MO003840RXRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD	Seagate_Cooper_SCOOPRHPESD4.fwpkg	VO007680RYEWD	HPD4 (B)	HPD4
391	Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU	Kioxia_PM7_KAPM7ALSHPD4.fwpkg	VO015360PXMTU	HPD4	HPD4
392	Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU	Kioxia_PM7_KAPM7ALSHPD4.fwpkg	VO007680PXMTT	HPD4	HPD4
393	Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU	Kioxia_PM7_KAPM7ALSHPD4.fwpkg	VO003840PXMTR	HPD4	HPD4
394	Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU	Kioxia_PM7_KAPM7ALSHPD4.fwpkg	VO001920PXMTL	HPD4	HPD4
395	Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU	Kioxia_PM7_KAPM7ALSHPD4.fwpkg	MO006400PXMUA	HPD4	HPD4
396	Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU	Kioxia_PM7_KAPM7ALSHPD4.fwpkg	MO003200PXMTV	HPD4	HPD4
397	Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU	Kioxia_PM7_KAPM7ALSHPD4.fwpkg	MO001600PXMTN	HPD4	HPD4
398	Universal Firmware Package for Drives - MO001600PXVRU, VO003840PXVRR and VO007680PXVRT	Kioxia_PM7_KAPM7ALFHPD3.fwpkg	VO007680PXVRT	HPD3	HPD3
399	Universal Firmware Package for Drives - MO001600PXVRU, VO003840PXVRR and VO007680PXVRT	Kioxia_PM7_KAPM7ALFHPD3.fwpkg	VO003840PXVRR	HPD3	HPD3

400	Universal Firmware Package for Drives - MO001600PXVRU, VO003840PXVRR and VO007680PXVRT	Kioxia_PM7_KAPM7ALFHPD3.fwpkg	MO001600PXVRU	HPD3	HPD3
401	Universal Firmware Package for Drives - MO001600PZWSH, MO003200PZWSK, MO000800PZWSF and MO006400PZXFA	Samsung_PM165X_GPM1655SAMD4.fwpkg	MO001600PZWSH	HPD4	HPD4
402	Universal Firmware Package for Drives - MO001600PZWSH, MO003200PZWSK, MO000800PZWSF and MO006400PZXFA	Samsung_PM165X_GPM1655SAMD4.fwpkg	MO003200PZWSK	HPD4	HPD4
403	Universal Firmware Package for Drives - MO001600PZWSH, MO003200PZWSK, MO000800PZWSF and MO006400PZXFA	Samsung_PM165X_GPM1655SAMD4.fwpkg	MO000800PZWSF	HPD4	HPD4
404	Universal Firmware Package for Drives - MO001600PZWSH, MO003200PZWSK, MO000800PZWSF and MO006400PZXFA	Samsung_PM165X_GPM1655SAMD4.fwpkg	MO006400PZXFA	HPD4	HPD4
405	Universal Firmware Package for Drives - VO000960PZWSL, VO001920PZWSN, VO003840PZWSP, VO007680PZXFB and VO015360PZXEU	Samsung_PM165X_GPM1653SAMD4.fwpkg	VO000960PZWSL	HPD4	HPD4
406	Universal Firmware Package for Drives - VO000960PZWSL, VO001920PZWSN, VO003840PZWSP, VO007680PZXFB and VO015360PZXEU	Samsung_PM165X_GPM1653SAMD4.fwpkg	VO001920PZWSN	HPD4	HPD4
407	Universal Firmware Package for Drives - VO000960PZWSL, VO001920PZWSN, VO003840PZWSP, VO007680PZXFB and VO015360PZXEU	Samsung_PM165X_GPM1653SAMD4.fwpkg	VO003840PZWSP	HPD4	HPD4
408	Universal Firmware Package for Drives - VO000960PZWSL, VO001920PZWSN, VO003840PZWSP, VO007680PZXFB and VO015360PZXEU	Samsung_PM165X_GPM1653SAMD4.fwpkg	VO007680PZXFB	HPD4	HPD4
409	Universal Firmware Package for Drives - VO000960PZWSL, VO001920PZWSN, VO003840PZWSP, VO007680PZXFB and VO015360PZXEU	Samsung_PM165X_GPM1653SAMD4.fwpkg	VO015360PZXEU	HPD4	HPD4
410	Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU	Kioxia_RM6_KARM6ALSHPD1.fwpkg	VO000960RZWUP	HPD1 (B)	HPD1
411	Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU	Kioxia_RM6_KARM6ALSHPD1.fwpkg	VO000960RZWUQ	HPD1 (B)	HPD1
412	Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU	Kioxia_RM6_KARM6ALSHPD1.fwpkg	VO001920RZWUR	HPD1 (B)	HPD1
413	Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU	Kioxia_RM6_KARM6ALSHPD1.fwpkg	VO001920RZWUV	HPD1 (B)	HPD1
414	Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU	Kioxia_RM6_KARM6ALSHPD1.fwpkg	VO003840RZWUT	HPD1 (B)	HPD1
415	Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ,	Kioxia_RM6_KARM6ALSHPD1.fwpkg	VO003840RZWVA	HPD1 (B)	HPD1

	VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU				
416	Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU	Kioxia_RM6_KARM6ALSHPD1.fwpkg	VO007680RZWUU	HPD1 (B)	HPD1

6.2.14 Firmware - SATA Storage Disk

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
417	Universal Firmware Package for Drive - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR	Seagate_EvansBP_SHPEEVSBPTG3.fwpkg	MB010000GYDKP	HPG3	HPG3
418	Universal Firmware Package for Drive - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR	Seagate_EvansBP_SHPEEVSBPTG3.fwpkg	MB012000GYCJL	HPG3	HPG3
419	Universal Firmware Package for Drive - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR	Seagate_EvansBP_SHPEEVSBPTG3.fwpkg	MB014000GYCJT	HPG3	HPG3
420	Universal Firmware Package for Drive - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR	Seagate_EvansBP_SHPEEVSBPTG3.fwpkg	MB016000GYDKQ	HPG3	HPG3
421	Universal Firmware Package for Drive - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR	Seagate_EvansBP_SHPEEVSBPTG3.fwpkg	MB018000GYDKR	HPG3	HPG3
422	Universal Firmware Package for Drive - MB016000GWXKK	Toshiba_MG08_TAMG08acHPG5.fwpkg	MB016000GWXKK	HPG5	HPG5
423	Universal Firmware Package for Drives - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB	Toshiba_Tomcat_TATCATSATAG1.fwpkg	MB001000GWJAN	HPG1	HPG1
424	Universal Firmware Package for Drives - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB	Toshiba_Tomcat_TATCATSATAG1.fwpkg	MB002000GWFWA	HPG1	HPG1
425	Universal Firmware Package for Drives - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB	Toshiba_Tomcat_TATCATSATAG1.fwpkg	MB004000GWFWB	HPG1	HPG1
426	Universal Firmware Package for Drives - MB002000GYDNK and MB004000GYDPD	Seagate_CimarronBP_SCIMARBPNTG4.fwpkg	MB002000GYDNK	HPG4	HPG4
427	Universal Firmware Package for Drives - MB002000GYDNK and MB004000GYDPD	Seagate_CimarronBP_SCIMARBPNTG4.fwpkg	MB004000GYDPD	HPG4	HPG4
428	Universal Firmware Package for Drives - MB004000GWKGV	WDC_VelaA_HVLAnAaseFG1.fwpkg	MB004000GWKGV	HPG1	HPG1
429	Universal Firmware Package for Drives - MB004000GWZVT	Toshiba_MG08Air_TAMG08ADAnG3.fwpkg	MB004000GWZVT	HPG3	HPG3
430	Universal Firmware Package for Drives - MB006000GWKGR	WDC_VelaA_HVLAeAaseFG1.fwpkg	MB006000GWKGR	HPG1	HPG1
431	Universal Firmware Package for Drives - MB006000GWZVL and MB008000GWZVN	Toshiba_MG08Air_TAMG08ADAeG3.fwpkg	MB006000GWZVL	HPG3	HPG3
432	Universal Firmware Package for Drives - MB006000GWZVL and MB008000GWZVN	Toshiba_MG08Air_TAMG08ADAeG3.fwpkg	MB008000GWZVN	HPG3	HPG3
433	Universal Firmware Package for Drives - MB006000GYDNL, MB008000GYDPE and MB010000GYDNN	Seagate_CimarronBP_SCIMARBPETG4.fwpkg	MB006000GYDNL	HPG4	HPG4

434	Universal Firmware Package for Drives - MB006000GYDNL, MB008000GYDPE and MB010000GYDNN	Seagate_CimarronBP_SCIMARBPETG4.fwpkg	MB008000GYDPE	HPG4	HPG4
435	Universal Firmware Package for Drives - MB006000GYDNL, MB008000GYDPE and MB010000GYDNN	Seagate_CimarronBP_SCIMARBPETG4.fwpkg	MB010000GYDNN	HPG4	HPG4
436	Universal Firmware Package for Drives - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL	Toshiba_MG09_TAMG09acHPG4.fwpkg	MB012000GZYVT	HPG4	HPG4
437	Universal Firmware Package for Drives - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL	Toshiba_MG09_TAMG09acHPG4.fwpkg	MB014000GZYVU	HPG4	HPG4
438	Universal Firmware Package for Drives - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL	Toshiba_MG09_TAMG09acHPG4.fwpkg	MB016000GZYVV	HPG4	HPG4
439	Universal Firmware Package for Drives - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL	Toshiba_MG09_TAMG09acHPG4.fwpkg	MB018000GYCLL	HPG4	HPG4
440	Universal Firmware Package for Drives - MB018000GXMTK and MB020000GXMTQ	Seagate_Longspeak_SLONGSPKETG3.fwpkg	MB018000GXMTK	HPG3	HPG3
441	Universal Firmware Package for Drives - MB018000GXMTK and MB020000GXMTQ	Seagate_Longspeak_SLONGSPKETG3.fwpkg	MB020000GXMTQ	HPG3	HPG3
442	Universal Firmware Package for Drives - MB12000GYESP, MB16000GYEVF and MB20000GYEVH	Seagate_SummitAN_SUMMITSUANG3.fwpkg	MB12000GYESP	HPG3	HPG3
443	Universal Firmware Package for Drives - MB12000GYESP, MB16000GYEVF and MB20000GYEVH	Seagate_SummitAN_SUMMITSUANG3.fwpkg	MB16000GYEVF	HPG3	HPG3
444	Universal Firmware Package for Drives - MB12000GYESP, MB16000GYEVF and MB20000GYEVH	Seagate_SummitAN_SUMMITSUANG3.fwpkg	MB20000GYEVH	HPG3	HPG3
445	Universal Firmware Package for Drives - MB24000GYEVK	Seagate_SummitAS_SUMMITSUASG3.fwpkg	MB24000GYEVK	HPG3	HPG3
446	Universal Firmware Package for Drives - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL	SKHynix_SE5031_K503HPG3.fwpkg	MK000480GWXFF	HPG3	HPG3
447	Universal Firmware Package for Drives - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL	SKHynix_SE5031_K503HPG3.fwpkg	MK000960GWXFH	HPG3	HPG3
448	Universal Firmware Package for Drives - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL	SKHynix_SE5031_K503HPG3.fwpkg	MK001920GWXFK	HPG3	HPG3
449	Universal Firmware Package for Drives - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL	SKHynix_SE5031_K503HPG3.fwpkg	MK003840GWXFL	HPG3	HPG3
450	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
451	Universal Firmware Package for Drives - MK000480GXNXB, MK000960GXNZK, MK001920GXNZL, MK003840GXNZN, VK000240GXNWU, VK000480GXNZA, VK000960GXNZB, VK001920GXNZC, VK003840GXNZD, VK007680GXNZE,	Micron_5400_M5400ALLHPG1.fwpkg	MK000960GXNZK	HPG1	HPG1

	VK000480SXNWV, VK001920SXNZF, MK000960SXNXC and MK001920SXNZP				
452	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	MK001920GXNZL	HPG1	HPG1
453	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	MK003840GXNZN	HPG1	HPG1
454	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	VK000240GXNWU	HPG1	HPG1
455	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	VK000480GXNZA	HPG1	HPG1
456	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	VK000960GXNZB	HPG1	HPG1
457	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
458	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
459	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

460	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
461	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
462	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
463	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
464	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
465	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	VR000480GXNZH	HPG1	HPG1
466	Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GXPQT and VR000480GXPQU	Solidigm_S4X20_4IYY HPG4.fwpkg	MK000480GYCNT	HPG4	HPG4
467	Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GXPQT and VR000480GXPQU	Solidigm_S4X20_4IYY HPG4.fwpkg	MK000960GYCNP	HPG4	HPG4
468	Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000	Solidigm_S4X20_4IYY HPG4.fwpkg	MK001920GYCNF	HPG4	HPG4

	960GYCNK ,VK001920GYCNL ,VK003840 GYCNN ,VK007680GYCNE ,VR000240GX PQT and VR000480GXPQU				
469	Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,M K001920GYCNF ,MK003840GYCNQ ,VK0 00240GYCNU ,VK000480GYCNH ,VK000 960GYCNK ,VK001920GYCNL ,VK003840 GYCNN ,VK007680GYCNE ,VR000240GX PQT and VR000480GXPQU	Solidigm_S4X20_4IYY HPG4.fwpkg	MK003840GYCNQ	HPG4	HPG4
470	Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,M K001920GYCNF ,MK003840GYCNQ ,VK0 00240GYCNU ,VK000480GYCNH ,VK000 960GYCNK ,VK001920GYCNL ,VK003840 GYCNN ,VK007680GYCNE ,VR000240GX PQT and VR000480GXPQU	Solidigm_S4X20_4IYY HPG4.fwpkg	VK000240GYCNU	HPG4	HPG4
471	Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,M K001920GYCNF ,MK003840GYCNQ ,VK0 00240GYCNU ,VK000480GYCNH ,VK000 960GYCNK ,VK001920GYCNL ,VK003840 GYCNN ,VK007680GYCNE ,VR000240GX PQT and VR000480GXPQU	Solidigm_S4X20_4IYY HPG4.fwpkg	VK000480GYCNH	HPG4	HPG4
472	Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,M K001920GYCNF ,MK003840GYCNQ ,VK0 00240GYCNU ,VK000480GYCNH ,VK000 960GYCNK ,VK001920GYCNL ,VK003840 GYCNN ,VK007680GYCNE ,VR000240GX PQT and VR000480GXPQU	Solidigm_S4X20_4IYY HPG4.fwpkg	VK000960GYCNK	HPG4	HPG4
473	Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,M K001920GYCNF ,MK003840GYCNQ ,VK0 00240GYCNU ,VK000480GYCNH ,VK000 960GYCNK ,VK001920GYCNL ,VK003840 GYCNN ,VK007680GYCNE ,VR000240GX PQT and VR000480GXPQU	Solidigm_S4X20_4IYY HPG4.fwpkg	VK001920GYCNL	HPG4	HPG4
474	Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,M K001920GYCNF ,MK003840GYCNQ ,VK0 00240GYCNU ,VK000480GYCNH ,VK000 960GYCNK ,VK001920GYCNL ,VK003840 GYCNN ,VK007680GYCNE ,VR000240GX PQT and VR000480GXPQU	Solidigm_S4X20_4IYY HPG4.fwpkg	VK003840GYCNN	HPG4	HPG4
475	Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,M K001920GYCNF ,MK003840GYCNQ ,VK0 00240GYCNU ,VK000480GYCNH ,VK000 960GYCNK ,VK001920GYCNL ,VK003840 GYCNN ,VK007680GYCNE ,VR000240GX PQT and VR000480GXPQU	Solidigm_S4X20_4IYY HPG4.fwpkg	VK007680GYCNE	HPG4	HPG4
476	Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,M K001920GYCNF ,MK003840GYCNQ ,VK0 00240GYCNU ,VK000480GYCNH ,VK000 960GYCNK ,VK001920GYCNL ,VK003840 GYCNN ,VK007680GYCNE ,VR000240GX PQT and VR000480GXPQU	Solidigm_S4X20_4IYY HPG4.fwpkg	VR000240GXPQT	HPG4	HPG4
477	Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,M K001920GYCNF ,MK003840GYCNQ ,VK0 00240GYCNU ,VK000480GYCNH ,VK000 960GYCNK ,VK001920GYCNL ,VK003840 GYCNN ,VK007680GYCNE ,VR000240GX PQT and VR000480GXPQU	Solidigm_S4X20_4IYY HPG4.fwpkg	VR000480GXPQU	HPG4	HPG4

478	Universal Firmware Package for Drives - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV	Samsung_PM897_HPG1PM897.fwpkg	MK000480GZXRA	HPG1	HPG1
479	Universal Firmware Package for Drives - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV	Samsung_PM897_HPG1PM897.fwpkg	MK000960GZXRB	HPG1	HPG1
480	Universal Firmware Package for Drives - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV	Samsung_PM897_HPG1PM897.fwpkg	MK001920GZXRC	HPG1	HPG1
481	Universal Firmware Package for Drives - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV	Samsung_PM897_HPG1PM897.fwpkg	MK003840GZXRV	HPG1	HPG1
482	Universal Firmware Package for Drives - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT	Samsung_PM893_HPG1PM893.fwpkg	VK000240GZXRU	HPG1	HPG1
483	Universal Firmware Package for Drives - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT	Samsung_PM893_HPG1PM893.fwpkg	VK000480GZXRF	HPG1	HPG1
484	Universal Firmware Package for Drives - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT	Samsung_PM893_HPG1PM893.fwpkg	VK000960GZXQU	HPG1	HPG1
485	Universal Firmware Package for Drives - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT	Samsung_PM893_HPG1PM893.fwpkg	VK001920GZXQV	HPG1	HPG1
486	Universal Firmware Package for Drives - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT	Samsung_PM893_HPG1PM893.fwpkg	VK003840GZXRH	HPG1	HPG1
487	Universal Firmware Package for Drives - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT	Samsung_PM893_HPG1PM893.fwpkg	VK007680GZXRT	HPG1	HPG1
488	Universal Firmware Package for Drives - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK	SKHynix_SE5110_K511HPG3.fwpkg	VK003840GZCNK	HPG3	HPG3
489	Universal Firmware Package for Drives - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK	SKHynix_SE5110_K511HPG3.fwpkg	VK001920GZCNH	HPG3	HPG3
490	Universal Firmware Package for Drives - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK	SKHynix_SE5110_K511HPG3.fwpkg	VK000480GZCNE	HPG3	HPG3
491	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
492	Firmware Package - HPE MR216i-o Gen11 Tri Mode Controller	HPE_MR216i-o_Gen11_52.36.3-6584_A.fwpkg	HPE_MR216i-o_Gen11	52.36.3-6584	52.36.3-6584
493	Firmware Package - HPE MR216i-p Gen11 Tri Mode Controller	HPE_MR216i-p_Gen11_52.36.3-6584_A.fwpkg	HPE_MR216i-p_Gen11	52.36.3-6584	52.36.3-6584
494	Firmware Package - HPE MR408i-o Gen11 Tri Mode Controller	HPE_MR408i-o_Gen11_52.36.3-6584_A.fwpkg	HPE_MR408i-o_Gen11	52.36.3-6584	52.36.3-6584
495	Firmware Package - HPE MR408i-p Gen11 Tri Mode Controller	HPE_MR408i-p_Gen11_52.36.3-6584_A.fwpkg	HPE_MR408i-p_Gen11	52.36.3-6584	52.36.3-6584

496	Firmware Package - HPE MR416i-o Gen11 Tri Mode Controller	HPE_MR416i-o_Gen11_52.36.3-6584_A.fwpkg	HPE_MR416i-o_Gen11	52.36.3-6584	52.36.3-6584
497	Firmware Package - HPE MR416i-p Gen11 Tri Mode Controller	HPE_MR416i-p_Gen11_52.36.3-6584_A.fwpkg	HPE_MR416i-p_Gen11	52.36.3-6584	52.36.3-6584
498	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_8.00_A.fwpkg	HPE Smart Array E208e-p SR Gen10 Controller	8.00	8.00

6.2.16 Firmware - Storage Fibre Channel

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
499	HPE Firmware Flash for Emulex 32Gb and 64Gb Fibre Channel Host Bus Adapters	PP14.4.731.12_header.pldm.fwpkg	HPE SN1620E 32Gb 2p FC HBA	14.4.731.12	14.4.731.12
500	HPE Firmware Flash for Emulex 32Gb and 64Gb Fibre Channel Host Bus Adapters	PP14.4.731.12_header.pldm.fwpkg	HPE SN1720E 64Gb 2p FC HBA	14.4.731.12	14.4.731.12
501	HPE Firmware Flash for QLogic 32Gb and 64Gb Fibre Channel Host Bus Adapters	mh021101.upd_header.pldm.fwpkg	HPE SN1700Q 64Gb 2p FC HBA	02.11.01	02.11.01
502	HPE Firmware Flash for QLogic 32Gb and 64Gb Fibre Channel Host Bus Adapters	mh021101.upd_header.pldm.fwpkg	HPE SN1700Q 64Gb 1p FC HBA	02.11.01	02.11.01
503	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
504	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
505	Firmware Package - UBM10 Backplane PIC PLDM Firmware	HPE_UBM10_1.04_A.fwpkg	UBM10 Backplane PIC	1.04	1.04
506	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
507	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
508	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
509	[Internal] Firmware Package - UBM6 Backplane PIC PLDM Firmware for Gen10/Gen10P/Gen11/Gen12 servers usage	HPE_UBM6_1.06_A.fwpkg	UBM6 Backplane PIC	1.06	1.06

6.2.18 Software - Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
510	Smart Storage Administrator (SSA) CLI Smart Component for ESXi 8.0 for Gen10/Gen10 Plus/Gen11 Controllers	cp069350.zip	HPE Smart Array E208e-p SR Gen10 Controller	2026.03.01	6.60.8.0-8.0.0.20613240
511	Smart Storage Administrator (SSA) CLI Smart Component for ESXi 9.0 for	cp069349.zip	HPE Smart Array E208e-p SR Gen10	2026.03.01	6.60.11.0-1OEM.900.0.2

	Gen10/Gen10 Plus/Gen11 Controllers		Controller		4755229

6.2.19 Software - Storage Controller

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
512	HPE MegaRAID Storage Administrator StorCLI for VMware9.0 (For Gen10P and Gen11 Controllers)	cp068890.zip	HPE_MR416i-o_Gen11	2026.03.01	007.3604.0000-1OEM.900.0.24755229
513	HPE MegaRAID Storage Administrator StorCLI for VMware9.0 (For Gen10P and Gen11 Controllers)	cp068890.zip	HPE_MR416i-p_Gen11	2026.03.01	007.3604.0000-1OEM.900.0.24755229
514	HPE MegaRAID Storage Administrator StorCLI for VMware9.0 (For Gen10P and Gen11 Controllers)	cp068890.zip	HPE_MR216i-o_Gen11	2026.03.01	007.3604.0000-1OEM.900.0.24755229
515	HPE MegaRAID Storage Administrator StorCLI for VMware9.0 (For Gen10P and Gen11 Controllers)	cp068890.zip	HPE_MR408i-o_Gen11	2026.03.01	007.3604.0000-1OEM.900.0.24755229
516	HPE MegaRAID Storage Administrator StorCLI for VMware9.0 (For Gen10P and Gen11 Controllers)	cp068890.zip	HPE_MR216i-p_Gen11	2026.03.01	007.3604.0000-1OEM.900.0.24755229
517	HPE MegaRAID Storage Administrator StorCLI for VMware9.0 (For Gen10P and Gen11 Controllers)	cp068890.zip	HPE_MR408i-p_Gen11	2026.03.01	007.3604.0000-1OEM.900.0.24755229

6.2.20 Software - Storage Fibre Channel

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
518	HPE QLogic Fibre Channel driver component for VMware vSphere 8.0	cp068091.zip	HPE SN1700Q 64Gb 2p FC HBA	2026.03.01	5.4.86.0-1OEM.803.0.0.24022510
519	HPE QLogic Fibre Channel driver component for VMware vSphere 8.0	cp068091.zip	HPE SN1700Q 64Gb 1p FC HBA	2026.03.01	5.4.86.0-1OEM.803.0.0.24022510
520	HPE QLogic Fibre Channel driver component for VMware vSphere 8.0	cp068091.zip	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	2026.03.01	5.4.86.0-1OEM.803.0.0.24022510
521	HPE QLogic Fibre Channel driver component for VMware vSphere 8.0	cp068091.zip	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	2026.03.01	5.4.86.0-1OEM.803.0.0.24022510
522	HPE QLogic Fibre Channel driver component for VMware vSphere 9.0	cp068092.zip	HPE SN1700Q 64Gb 2p FC HBA	2026.03.01	5.5.86.0-1OEM.900.0.24755229
523	HPE QLogic Fibre Channel driver component for VMware vSphere 9.0	cp068092.zip	HPE SN1700Q 64Gb 1p FC HBA	2026.03.01	5.5.86.0-1OEM.900.0.24755229
524	HPE QLogic Fibre Channel driver component for VMware vSphere 9.0	cp068092.zip	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	2026.03.01	5.5.86.0-1OEM.900.0.24755229
525	HPE QLogic Fibre Channel driver component for VMware vSphere 9.0	cp068092.zip	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	2026.03.01	5.5.86.0-1OEM.900.0.24755229

6.2.21 Software - System Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
526	Agentless Management Service (iLO 5,	amsd-4.6.0-	-	4.6.0	4.6.0-

	iLO 6 and iLO 7) for Red Hat Enterprise Linux 9 Server	2132.11.rhel9.x86_64.rpm			2132.11.rhel9
527	Agentless Management Service for Microsoft Windows x64	cp070371.exe	-	4.70.0.0	4.70.0.0
528	HPE Agentless Management Bundle Smart Component on ESXi for Gen11 and Gen12 Servers	cp070370.zip	-	2026.03.01	802.12.5.0.13-1
529	HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit (for Gen10P and Gen11 Controllers)	storcli-007.3604.0000.0000-1.noarch.rpm	HPE_MR416i-o_Gen11	007.3604.0000.0000	007.3604.0000.0000-1
530	HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit (for Gen10P and Gen11 Controllers)	storcli-007.3604.0000.0000-1.noarch.rpm	HPE_MR416i-p_Gen11	007.3604.0000.0000	007.3604.0000.0000-1
531	HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit (for Gen10P and Gen11 Controllers)	storcli-007.3604.0000.0000-1.noarch.rpm	HPE_MR216i-o_Gen11	007.3604.0000.0000	007.3604.0000.0000-1
532	HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit (for Gen10P and Gen11 Controllers)	storcli-007.3604.0000.0000-1.noarch.rpm	HPE_MR408i-o_Gen11	007.3604.0000.0000	007.3604.0000.0000-1
533	HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit (for Gen10P and Gen11 Controllers)	storcli-007.3604.0000.0000-1.noarch.rpm	HPE_MR216i-p_Gen11	007.3604.0000.0000	007.3604.0000.0000-1
534	HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit (for Gen10P and Gen11 Controllers)	storcli-007.3604.0000.0000-1.noarch.rpm	HPE_MR408i-p_Gen11	007.3604.0000.0000	007.3604.0000.0000-1
535	HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers)	cp068888.exe	HPE_MR416i-o_Gen11	7.3604.0.0	7.3604.0.0
536	HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers)	cp068888.exe	HPE_MR416i-p_Gen11	7.3604.0.0	7.3604.0.0
537	HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers)	cp068888.exe	HPE_MR216i-o_Gen11	7.3604.0.0	7.3604.0.0
538	HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers)	cp068888.exe	HPE_MR408i-o_Gen11	7.3604.0.0	7.3604.0.0
539	HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers)	cp068888.exe	HPE_MR216i-p_Gen11	7.3604.0.0	7.3604.0.0
540	HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers)	cp068888.exe	HPE_MR408i-p_Gen11	7.3604.0.0	7.3604.0.0
541	HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for MR Controllers)	cp068891.exe	HPE_MR416i-o_Gen11	8.16.13.0	8.16.13.0
542	HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for MR Controllers)	cp068891.exe	HPE_MR416i-p_Gen11	8.16.13.0	8.16.13.0
543	HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for MR Controllers)	cp068891.exe	HPE_MR216i-o_Gen11	8.16.13.0	8.16.13.0
544	HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for MR Controllers)	cp068891.exe	HPE_MR408i-o_Gen11	8.16.13.0	8.16.13.0
545	HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for MR Controllers)	cp068891.exe	HPE_MR216i-p_Gen11	8.16.13.0	8.16.13.0
546	HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for MR Controllers)	cp068891.exe	HPE_MR408i-p_Gen11	8.16.13.0	8.16.13.0
547	Smart Storage Administrator (SSA) CLI for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	ssacli-6.60-8.0.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	6.60.8.0	6.60-8.0
548	Smart Storage Administrator (SSA) CLI for Windows 64-bit for Gen10/Gen10	cp069346.exe	HPE Smart Array E208e-p SR Gen10	6.60.8.0	6.60.8.0

	Plus/Gen11 Controllers		Controller		
549	Smart Storage Administrator (SSA) for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	ssa-6.60-8.0.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	6.60.8.0	6.60-8.0
550	Smart Storage Administrator (SSA) for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	cp069345.exe	HPE Smart Array E208e-p SR Gen10 Controller	6.60.8.0	6.60.8.0
551	Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	ssaducli-6.60-8.0.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	6.60.8.0	6.60-8.0
552	Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	cp069347.exe	HPE Smart Array E208e-p SR Gen10 Controller	6.60.8.0	6.60.8.0

6.3 パッケージの変更内容

ROM Flash Firmware Package - System ROM U68

Version: 1.62_02-06-2026 (Recommended)

Important Notes:

・This version of the System ROM contains updates aligned with Intel Birch Stream UPLR2 and UPLR2.5 BKC updates.

・This version of the System ROM contains updates aligned with GNR/SRF UPLR1.5 updates.

Problems Fixed:

・Address an issue where the system reports “266 - Non-Volatile Memory Corruption Detected in the IML logs.

・Address an issue where the system Asset Tag can be modified even when Asset Tag Protection is set to Locked.

・Address an issue where the system logs correctable errors as Uncorrectable Machine Check Exceptions in the IML and AHS.

・Address an issue where the system reports incorrect slot information for NVMe devices when the PCIe link cannot train to its maximum supported speed.

・Address an issue where the system cannot enter the RBSU menu after Intel VMD/VROC is enabled.

・Address an issue where the system reports an “Unsupported DIMM Configuration error when Granite Rapids XCC processors are installed with a 2-DIMM configuration.

・Address an issue where certain devices are incorrectly configured with 10-bit TLP tags even though they do not support this feature.

・Address an issue where incorrect OCP E610 NIC information is displayed in the RBSU one-time boot menu and PCIe device information.

・Addressed an issue where the system configured with Mirrored Memory in Advanced ECC mode could become unresponsive after performing Memory Address Translation via Redfish.

・Addressed an issue where the system secure boot status could appear inconsistent between RBSU and iLO.

・Addressed an issue where the BootProgress property’s OSRunning status in Redfish could be report incorrectly.

・Addressed an issue where an error message might pop up when accessing Encrypted Device Page. (System Utility > System Configurations > RBSU> Server Security > Device Encryption Option > Device Encryptions Settings > Encrypted Device)

・Addressed an issue that could cause a Keep Alive Timeout when establishing an NVMe-oF connection.

・Addressed an issue where the system might experience a MCTP-related issue that could cause inconsistencies in device information.

・Addressed an issue where the system "Intel UPI Options" in "System Utilities > System Configuration > RBSU > Power and Performance Options" might not display correctly.

・Addressed an issue where the system might experience a DDR training failure or Machine Check Error during boot.

・Addressed an issue that prevented an IML message from being generated when Processor 2 experienced

an uncorrectable memory error.

- Addressed an issue where the system might stuck in InPostDiscoveryStart stage when performing Secure Erase.
- Addressed an issue where the system might not have POST messages in Fan removal and Fan failure cases.
- Addressed an issue preventing PXE boot functionality when 400G NIC cards are present in the system
- Addressed an issue where the setting change of "UPI Link Enablement" under "System Utilities > System Configuration > RBSU > Power and Performance Options > Intel UPI Options" may not have been applied successfully.
- Addressed an issue where the setting change of "UPI Link Power Management" under "System Utilities > System Configuration > RBSU > Power and Performance Options > Intel UPI Options" may not have been properly applied.
- Addressed an issue that could prevent system boot when 10x RTX6000 Pro GPU cards are installed (DL380a).
- Addressed an issue where the ACPI BERT table was not exportable via UEFI/ROM.
- Addressed an issue where the setting change of "PCIe ASPM Support" under "System Utilities > System Configuration > RBSU > PCIe Device Configuration > Advanced PCIe Configuration > PCIe ASPM Support (Global)" may not have been properly applied.
- Addressed an issue where PCR values could be reported as changed following a system reboot.
- Addressed an issue where the system TPM-0 measurements might change after a system reboot.
- Addressed an issue where a failed delete operation via the Redfish API could inadvertently remove the system Redfish URI.

Enhancements:

- Enabled Priority Core Turbo (PCT) feature support.
- Support for server Asset Tag length up to 63 characters.
- Added NFVI-FP and NFVI-SASE profile for DL360/DL380 platforms.
- Added OCP NIC Auto-Bifurcation feature
- Updated the description wording of the User Password field to make it more clear.
- Updated the PCIe DeEmphasis setting for specific front OCP cases on the DL380 Gen12.

ROM Flash Firmware Package - System ROM U71

Version: 1.62_02-06-2026 (Recommended)

Important Notes:

- This version of the System ROM contains updates aligned with Intel Birch Stream UPLR2 and UPLR2.5 BKC updates.
- This version of the System ROM contains updates aligned with GNR/SRF UPLR1.5 updates.

Problems Fixed:

- Address an issue where the system reports “266 - Non-Volatile Memory Corruption Detected in the IML logs.
- Address an issue where the system Asset Tag can be modified even when Asset Tag Protection is set to

Locked.

- Address an issue where the system logs correctable errors as Uncorrectable Machine Check Exceptions in the IML and AHS.
- Address an issue where the system reports incorrect slot information for NVMe devices when the PCIe link cannot train to its maximum supported speed.
- Address an issue where the system cannot enter the RBSU menu after Intel VMD/VROC is enabled.
- Address an issue where the system reports an “Unsupported DIMM Configuration error when Granite Rapids XCC processors are installed with a 2-DIMM configuration.
- Address an issue where certain devices are incorrectly configured with 10-bit TLP tags even though they do not support this feature.
- Address an issue where incorrect OCP E610 NIC information is displayed in the RBSU one-time boot menu and PCIe device information.
- Addressed an issue where the system configured with Mirrored Memory in Advanced ECC mode could become unresponsive after performing Memory Address Translation via Redfish.
- Addressed an issue where the system secure boot status could appear inconsistent between RBSU and iLO.
- Addressed an issue where the BootProgress property’s OSRunning status in Redfish could be report incorrectly.
- Addressed an issue where an error message might pop up when accessing Encrypted Device Page. (System Utility > System Configurations > RBSU> Server Security > Device Encryption Option > Device Encryptions Settings > Encrypted Device)
- Addressed an issue that could cause a Keep Alive Timeout when establishing an NVMe-oF connection.
- Addressed an issue where the system might experience a MCTP-related issue that could cause inconsistencies in device information.
- Addressed an issue where the system "Intel UPI Options" in "System Utilities > System Configuration > RBSU > Power and Performance Options" might not display correctly.
- Addressed an issue where the system might experience a DDR training failure or Machine Check Error during boot.
- Addressed an issue that prevented an IML message from being generated when Processor 2 experienced an uncorrectable memory error.
- Addressed an issue where the system might stuck in InPostDiscoveryStart stage when performing Secure Erase.
- Addressed an issue where the system might not have POST messages in Fan removal and Fan failure cases.
- Addressed an issue preventing PXE boot functionality when 400G NIC cards are present in the system
- Addressed an issue where the setting change of "UPI Link Enablement" under "System Utilities > System Configuration > RBSU > Power and Performance Options > Intel UPI Options" may not have been applied successfully.
- Addressed an issue where the setting change of "UPI Link Power Management" under "System Utilities > System Configuration > RBSU > Power and Performance Options > Intel UPI Options" may not have been properly applied.

- Addressed an issue that could prevent system boot when 10x RTX6000 Pro GPU cards are installed (DL380a).
- Addressed an issue where the ACPI BERT table was not exportable via UEFI/ROM.
- Addressed an issue where the setting change of "PCIe ASPM Support" under "System Utilities > System Configuration > RBSU > PCIe Device Configuration > Advanced PCIe Configuration > PCIe ASPM Support (Global)" may not have been properly applied.
- Addressed an issue where PCR values could be reported as changed following a system reboot.
- Addressed an issue where the system TPM-0 measurements might change after a system reboot.
- Addressed an issue where a failed delete operation via the Redfish API could inadvertently remove the system Redfish URI.

Enhancements:

- Enabled Priority Core Turbo (PCT) feature support.
- Support for server Asset Tag length up to 63 characters.
- Added NFVI-FP and NFVI-SASE profile for DL360/DL380 platforms.
- Added OCP NIC Auto-Bifurcation feature
- Updated the description wording of the User Password field to make it more clear.
- Updated the PCIe DeEmphasis setting for specific front OCP cases on the DL380 Gen12.

ROM Flash Firmware Package - System ROM U72

Version: 1.62_02-06-2026 (Recommended)

Important Notes:

- This version of the System ROM contains updates aligned with Intel Birch Stream UPLR2 and UPLR2.5 BKC updates.
- This version of the System ROM contains updates aligned with GNR/SRF UPLR1.5 updates.

Problems Fixed:

- Address an issue where the system reports “266 - Non-Volatile Memory Corruption Detected in the IML logs.
- Address an issue where the system Asset Tag can be modified even when Asset Tag Protection is set to Locked.
- Address an issue where the system logs correctable errors as Uncorrectable Machine Check Exceptions in the IML and AHS.
- Address an issue where the system reports incorrect slot information for NVMe devices when the PCIe link cannot train to its maximum supported speed.
- Address an issue where the system cannot enter the RBSU menu after Intel VMD/VROC is enabled.
- Address an issue where the system reports an “Unsupported DIMM Configuration error when Granite Rapids XCC processors are installed with a 2-DIMM configuration.
- Address an issue where certain devices are incorrectly configured with 10-bit TLP tags even though they do not support this feature.
- Address an issue where incorrect OCP E610 NIC information is displayed in the RBSU one-time boot

menu and PCIe device information.

- Addressed an issue where the system configured with Mirrored Memory in Advanced ECC mode could become unresponsive after performing Memory Address Translation via Redfish.
- Addressed an issue where the system secure boot status could appear inconsistent between RBSU and iLO.
- Addressed an issue where the BootProgress property’ s OSRunning status in Redfish could be report incorrectly.
- Addressed an issue where an error message might pop up when accessing Encrypted Device Page. (System Utility > System Configurations > RBSU> Server Security > Device Encryption Option > Device Encryptions Settings > Encrypted Device)
- Addressed an issue that could cause a Keep Alive Timeout when establishing an NVMe-oF connection.
- Addressed an issue where the system might experience a MCTP-related issue that could cause inconsistencies in device information.
- Addressed an issue where the system "Intel UPI Options" in "System Utilities > System Configuration > RBSU > Power and Performance Options" might not display correctly.
- Addressed an issue where the system might experience a DDR training failure or Machine Check Error during boot.
- Addressed an issue that prevented an IML message from being generated when Processor 2 experienced an uncorrectable memory error.
- Addressed an issue where the system might stuck in InPostDiscoveryStart stage when performing Secure Erase.
- Addressed an issue where the system might not have POST messages in Fan removal and Fan failure cases.
- Addressed an issue preventing PXE boot functionality when 400G NIC cards are present in the system
- Addressed an issue where the setting change of "UPI Link Enablement" under "System Utilities > System Configuration > RBSU > Power and Performance Options > Intel UPI Options" may not have been applied successfully.
- Addressed an issue where the setting change of "UPI Link Power Management" under "System Utilities > System Configuration > RBSU > Power and Performance Options > Intel UPI Options" may not have been properly applied.
- Addressed an issue that could prevent system boot when 10x RTX6000 Pro GPU cards are installed (DL380a).
- Addressed an issue where the ACPI BERT table was not exportable via UEFI/ROM.
- Addressed an issue where the setting change of "PCIe ASPM Support" under "System Utilities > System Configuration > RBSU > PCIe Device Configuration > Advanced PCIe Configuration > PCIe ASPM Support (Global)" may not have been properly applied.
- Addressed an issue where PCR values could be reported as changed following a system reboot.
- Addressed an issue where the system TPM-0 measurements might change after a system reboot.
- Addressed an issue where a failed delete operation via the Redfish API could inadvertently remove the system Redfish URI.

Enhancements:

- Enabled Priority Core Turbo (PCT) feature support.
- Support for server Asset Tag length up to 63 characters.
- Added NFVI-FP and NFVI-SASE profile for DL360/DL380 platforms.
- Added OCP NIC Auto-Bifurcation feature
- Updated the description wording of the User Password field to make it more clear.
- Updated the PCIe DeEmphasis setting for specific front OCP cases on the DL380 Gen12.

Hitachi Online ROM Flash Firmware Package - iLO 7

Version: 1.20

Problems Fixed:

- Fixed an issue where iLO does not send remote syslog messages when multiple remote syslog destinations are configured.
- Fixed an issue with the logic to load the Gateway Certificate to the correct SSL context after an iLO reset.
- Fixed an issue where after an upgrade to iLO v1.18.00, iLO may incorrectly report server POST status and the device discovery may not complete.
- Fixed an issue where disabling SSH causes iLO Web UI and RESTful API connections to fail.

Enhancements:

- Configuring server boot order during POST with changes applied on the next system reboot.
- PLDM File Transfer Specification (DSP0242) from iLO 7.
- Micron & Samsung root CA for SPDM authentication.
- Support for server AssetTag length up to 63 characters. Requires System ROM 1.62 or later.
- Informational message in the iLO web interface to install AMS and enable Virtual NIC when AMS status displays Not installed.
- Prevent Duplicate key mode in HTML IRC to avoid duplicate keystrokes on high latency networks.
- iLO IML event support for new RDE Storage Alerts.
- Single NVMe drive erase using Redfish API.
- Enabled Clipboard support from HTML IRC to allow copying and pasting text.
- Enabled Boot Menu support from HTML IRC.
- Enabled support for PowerWatts and InputPowerWatts metrics in EnvironmentMetrics and PowerSupplyMetrics.
- Enabled USB management and Timing Sync support for CEM6 and CEM7 for PCIe from iLO 7.
- Enabled TPM-1 measurements related Redfish URI support.
- Enabled Domain Name support from iLO 7 web interface for Thales CipherTrust Manager.
- Added support for minimum password length of 4 characters for iLO users.
- Ported the Properties under the Power schema to the PowerSubsystem schema to align with DMTF standards.
- Enhanced handling of invalid virtual media URLs with graceful failure messaging.
- Support for configuring Direct-Attached Self-Encrypting Drives (SED) using iLO web interface.

- Enhanced Node Wipe Password Recovery option. iLO Service Port is now used to obtain the nonce for default administrator password recovery process. iLO web interface displays the nonce expiry period and option to regenerate the nonce.
- Enabled iLO 7 support for UBM11 with a storage controller.
- Replaced power-sensor property PowerCapacityWatts with Reading and set the ReadingUnits property as W.
- Enhanced error reporting for dual signing validation failures to improve troubleshooting.
- Enabled Virtual Serial Port (VSP) by default.
- Enabled monitoring of Direct Attached NVMe drives through iLO SNMP when AMS is not installed on the host operating system.
- Modified SNMP storage controller properties to match the attribute values from the Redfish interface.
- Support for Automatic Management of TLS certificates using the ACME (Automatic Certificate Management Environment) protocol, which eliminates the need for manual certificate enrollment and renewal, ensures always has a valid, trusted TLS certificate, and works with any RFC 8555 ACMEv2 compliant server such as STEP-CA.
- Enhanced the iLO password length to 8 from 0.
- MTU Size is now configurable for iLO Dedicated Network port.
- Improvements to user experience in the Performance page with multiple metric correlation and addition of Ambient Temperature History graph in Thermal and Cooling page.
- Ability to configure BIOS settings through the iLO Web UI.
- Added Aux Power Cycle button in the iLO UI.
- Support from Redfish and UI for Power consumption of the server(PSU) in Volts and Amperes.
- Support for SED hot plug.

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

Version: 10.1.19886.8592 (B) (Recommended)

Enhancements

- Updated setup utility dependencies

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

Version: 10.1.19879.8585 (F) (Recommended)

Enhancements

- Updated installer library to detect reboot flag.

Integrated Smart Update Tools 6.6.0 for ESXi 8.0, ESXi 9.0 and ESXi 9.1

Version: 2026.03.00 (Recommended)

Fixes

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

Integrated Smart Update Tools for Linux x64

Version: 5.3.0.0 (Recommended)

Important Note!

Please note the following:

iSUT requires a Service Pack for ProLiant-based ISO containing Smart Update Manager (SUM) 8.0.0 or later.

If an earlier version of SUM is used, iSUT will notify the user that SUM

8.0.0 and later is required.

For Gen10 and above iSUT need iLO 5 firmware version 1.11 or later Integrated Smart Update Tools requires iLO Advanced Pack license.

Prerequisites

For prerequisite information, please see the iSUT Release Notes.

Fixes

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

Enhancements

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

Integrated Smart Update Tools for Linux x64

Version: 6.6.0.0 (Recommended)

Important Note!

Please note the following:

iSUT requires a Service Pack for ProLiant-based ISO containing Smart Update Manager (SUM) 8.0.0 or later.

If an earlier version of SUM is used, iSUT will notify the user that SUM

8.0.0 and later is required.

For Gen10 and above iSUT need iLO 5 firmware version 1.11 or later Integrated Smart Update Tools requires iLO Advanced Pack license.

Prerequisites

For prerequisite information, please see the iSUT Release Notes.

Fixes

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

Enhancements

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

Integrated Smart Update Tools for Windows x64

Version: 6.6.0.0 (Recommended)

Important Note!

Please note the following:

iSUT requires a Service Pack for ProLiant-based ISO containing Smart Update Manager (SUM) 8.0.0 or later.
If an earlier version of SUM is used, iSUT will notify the user that SUM
8.0.0 and later is required.
For Gen10 and above iSUT need iLO 5 firmware version 1.11 or later Integrated Smart Update Tools requires iLO Advanced Pack license.

Prerequisites

For prerequisite information, please see the iSUT Release Notes.

Fixes

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

Enhancements

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

Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022

Version: 235.1.122.0 (Recommended)

Important Note!

- HPE recommends the firmware provided in Broadcom Firmware Package for BCM5741x, BCM5750x and BCM5760x adapters, version 235.1.160.0 or later, for use with this driver.

Enhancements

- This product enhances the Windows driver to support PCIe compliance configuration by enabling pass-through firmware commands with long input message sizes.
- This product enhances adding new event log warning message.

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port SFP+ BCM57412 OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ BCM57412 Adapter
- HPE Ethernet 10Gb 2-port BaseT BCM57416 OCP3 Adapter
- HPE Ethernet 10Gb 2-port BaseT BCM57416 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 OCP3 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter
- Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE
- Broadcom BCM57608 Ethernet 100Gb 2-port QSFP112 Adapter for HPE
- Broadcom BCM57608 Ethernet 100Gb 2-port QSFP112 OCP3 Adapter for HPE

Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025

Version: 235.1.122.0 (Recommended)

Important Note!

- HPE recommends the firmware provided in Broadcom Firmware Package for BCM5741x, BCM5750x and BCM5760x adapters, version 235.1.160.0 or later, for use with this driver.

Enhancements

- This product enhances the Windows driver to support PCIe compliance configuration by enabling pass-through firmware commands with long input message sizes.
- This product enhances adding new event log warning message.

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port SFP+ BCM57412 OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ BCM57412 Adapter
- HPE Ethernet 10Gb 2-port BaseT BCM57416 OCP3 Adapter
- HPE Ethernet 10Gb 2-port BaseT BCM57416 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 OCP3 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter
- Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE
- Broadcom BCM57608 Ethernet 100Gb 2-port QSFP112 Adapter for HPE
- Broadcom BCM57608 Ethernet 100Gb 2-port QSFP112 OCP3 Adapter for HPE

Broadcom NX1 1Gb Driver for Windows Server x64 Editions

Version: 221.0.8.0 (C) (Recommended)

Important Note!

HPE recommends the firmware provided in HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.4.6.0 or later, for use with this driver.

Enhancements

This product enhances to update PNP ID table（Plug and Play Identifier）

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

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

Version: 1.10.3-235.1.164.14 (Recommended)

Important Note!

HPE recommends the HPE Broadcom NetXtreme-E Firmware Version, 235.1.164014 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 the TPH error-handling logic to prevent steering tag lookup failures and improper IRQ notifier teardown.

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port SFP+ BCM57412 OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ BCM57412 Adapter
- HPE Ethernet 10Gb 2-port BaseT BCM57416 OCP3 Adapter
- HPE Ethernet 10Gb 2-port BaseT BCM57416 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 OCP3 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter
- Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE
- Broadcom BCM57608 Ethernet 100Gb 2-port QSFP112 Adapter for HPE
- Broadcom BCM57608 Ethernet 100Gb 2-port QSFP112 OCP3 Adapter for HPE

HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0

Version: 2025.11.00 (Recommended)

Important Note!

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

file.

- HPE recommends the HPE Broadcom NetXtreme-E Firmware Version, 235.1.160000 or later, for use with this driver.

Fixes

This product fixes issue where the RoCE driver updated the RoCE priority from the Queue Pair and Address Handle context by suppressing that value and not propagating it to the L2 driver.

Enhancements

This product enhances the completion queue design to support two completion queues for each Notification Queue

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port SFP+ BCM57412 OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ BCM57412 Adapter
- HPE Ethernet 10Gb 2-port BaseT BCM57416 OCP3 Adapter
- HPE Ethernet 10Gb 2-port BaseT BCM57416 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 OCP3 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter
- Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE
- Broadcom BCM57608 Ethernet 100Gb 2-port QSFP112 Adapter for HPE
- Broadcom BCM57608 Ethernet 100Gb 2-port QSFP112 OCP3 Adapter for HPE

HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0

Version: 2025.11.00 (Recommended)

Important Note!

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

file.

- HPE recommends the HPE Broadcom NetXtreme-E Firmware Version, 235.1.160000 or later, for use with this driver.

Fixes

This product fixes issue where the RoCE driver updated the RoCE priority from the Queue Pair and Address Handle context by suppressing that value and not propagating it to the L2 driver.

Enhancements

This product enhances the completion queue design to support two completion queues for each Notification Queue

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port SFP+ BCM57412 OCP3 Adapter
- HPE Ethernet 10Gb 2-port SFP+ BCM57412 Adapter
- HPE Ethernet 10Gb 2-port BaseT BCM57416 OCP3 Adapter
- HPE Ethernet 10Gb 2-port BaseT BCM57416 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 OCP3 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter
- Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE
- Broadcom BCM57608 Ethernet 100Gb 2-port QSFP112 Adapter for HPE

・Broadcom BCM57608 Ethernet 100Gb 2-port QSFP112 OCP3 Adapter for HPE

HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 6.

Version: 235.1.164.14 (Recommended)

Prerequisites

HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9, version 1.10.3-235.1.164.0 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.

Enhancements

This product enhance RoCE packet capture is correctly enabled when LAG is configured by aligning firmware LAG enablement with L2 driver configuration.

Supported Devices and Features

This product supports the following network adapters:

・HPE Ethernet 10Gb 2-port SFP+ BCM57412 OCP3 Adapter
・HPE Ethernet 10Gb 2-port SFP+ BCM57412 Adapter
・HPE Ethernet 10Gb 2-port BaseT BCM57416 OCP3 Adapter
・HPE Ethernet 10Gb 2-port BaseT BCM57416 Adapter
・HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 OCP3 Adapter
・HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter
・Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
・Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE
・Broadcom BCM57608 Ethernet 100Gb 2-port QSFP112 Adapter for HPE
・Broadcom BCM57608 Ethernet 100Gb 2-port QSFP112 OCP3 Adapter for HPE

HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 9

Version: 3.139w-1 (Recommended)

Important Note!

HPE recommends the firmware provided in HPE NX1 Broadcom Online Firmware Upgrade Utility for Linux x86_64, version 2.42.0 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 the issue where The ethtool command set rx_jumbo_pending to zero so any received

jumbo packets are dropped

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

HPE Intel iavf Drivers for Red Hat Enterprise Linux 9

Version: 4.13.20-1 (Recommended)

Important Note!

HPE recommends the firmware provided below,

- HPE Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.35.0 or later, for use with these drivers.
- Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.35.0 or later, for use with these drivers.
- Intel Firmware Package For E810, version 4.90 or later for use with these drivers.

Enhancements

- This product added support for RHEL9.7.
- This product enhanced the virtual interface initialization structure for the driver

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-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 Driver [ConnectX-4 and above] for Red Hat Enterprise Linux 9 Update 6 (x86_64)

Version: 25.07-0.9.7.0 (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 25.07-0.9.7.1:

- OFED installation caused CIFS to break in RHEL 8.4 and above. A dummy module was added so that CIFS will be disabled after OFED installation in RHEL 8.4 and above.
- Performance degradation on older kernel versions using RX cache, particularly on slower ARM CPUs with larger RX buffers. The issue was

caused by the driver attempting to allocate new RX pages too quickly, leading to head-of-line blocking in the RX cache. The fix improves RX cache usage by

triggering page allocation for a bulk of at least 2 WQEs, allowing the

application more time to process packets and return buffers to the RX cache, thereby reducing blocking and enhancing performance.

- VF behavior was not aligned with /sys/class/net/<interface-

name>/device/sriov_numvfs (silently ignore attempts to set the same number of VFs, and prevent changing the number of VFs until existing VFs are removed).

- On BlueField-3 devices running linux-bluefield kernel versions 5.15.0-1050 or 5.15.0-1060, a kernel crash occurred due to a NULL pointer dereference in the cls_api network scheduler.

Enhancements

The following new features and changes have been included in version 25.07-0.9.7.1:

- Hardware Steering (HWS): Enabled HWS as a secondary option for the

device steering mode. If Software Steering (SWS) is not supported, HWS will be used by default, assuming it is available. Firmware Steering (FW) will now serve as the default only when both SWS and HWS are unsupported.

- Hardware-Managed Flow Steering (HMFS): HMFS is a new approach to managing steering rules, where STEs are written to the ICM by hardware

instead of software (as in software-managed steering). This enables a higher rate of rule insertion.

- Queue Affinity Bonding: Added support for 4-port bonding to allow users to add both p0 and p1 to a bond without requiring SSH access to the host or bringing down the driver beforehand.
- Multiple Doorbells per PF: Increased the number of doorbells from 1 to 8,

distributing them in a round-robin manner across channel send and receive queues. This enhancement improves scalability on multi-core systems with high packet rates by reducing MMIO contention on doorbell addresses. In high packet-rate scenarios, Sub-NUMA Clustering is also required to maintain consistent channel packet rates.

- HQoS for Virtualization Solution: Added support for hierarchical group

structures to enable multi-tier resource control, where parent groups enforce

overall limits and child groups dynamically share available bandwidth. This design is essential for effective QoS enforcement, burst handling, and fair bandwidth allocation, ensuring workloads receive appropriate resources.

- Number of lanes Configuration when Auto-Negotiation is Disabled: Added support for specifying the number of lanes (protocol width) when auto-

negotiation is disabled. Since each combination of speed and lane count corresponds to a unique link

mode, this allows the user to select a specific link mode when auto-negotiation is off. This change aligns with a recent firmware update that requires the driver to provide a single link mode, rather than a bitmap based on the user-defined speed.

- Extend ODP Statistics with Operation Count: Added the following new page-granularity counters:
  - num_page_faults: counts the number of page fault events handled
  - num_invalidations: counts the number of page invalidation events handled

Supported Devices and Features SUPPORTED KERNELS:

The kernels of Red Hat Enterprise Linux 9 update 6 (x86_64) supported by this binary rpm are:

- 5.14.0-570.12.1.el9_6 (x86_64) and future update kernels.

Intel ice Drivers for Red Hat Enterprise Linux 9

Version: 2.4.5-1 (Recommended)

Important Note!

HPE recommends the firmware provided in Intel Firmware Package For E810, version 4.90 or later for use with these drivers.

Fixes

- This product fixed the “Failed to apply Tx scheduling configuration, err -17” issue caused by incorrect topology detection.
- This product fixed a kernel NULL-pointer dereference that occurred during reset after NVM update when transmit balancing was enabled.
- This product fixed an issue where the VF RDMA virtual device was not created when SR-IOV LAG dependencies were misdetected.
- This product fixed failures related to PTP_PIN_SETFUNC2 on Linux 6.16 and later kernels.

Enhancements

- This product add support for RHEL 9.7

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-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: 1.20.39.0 (Recommended)

Important Note!

HPE recommends the firmware provided in Intel Firmware Package
for Columbiaville (FWPKG), version 4.91 or later, for use with this driver.

Fixes

- This product fixed networking communication issues.
- This product fixed a memory-leak issue.

Enhancements

- This product enhanced the offload stack for ARP, NS, and WoL features.
- This product enhanced the TX topology and overall traffic flow.
- This product enhanced power-state handling for S0 Idle, power events, registry reading, and logging.

Supported Devices and Features

This driver supports the following HPE Intel ICEA 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-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: 1.20.43.0 (Recommended)

Important Note!

HPE recommends the firmware provided in Intel Firmware Package
for Columbiaville (FWPKG), version 4.91 or later, for use with this driver.

Fixes

- This product fixed networking communication issues.
- This product fixed a memory-leak issue.

Enhancements

- This product enhanced the offload stack for ARP, NS, and WoL features.
- This product enhanced the TX topology and overall traffic flow.
- This product enhanced power-state handling for S0 Idle, power events, registry reading, and logging.

Supported Devices and Features

This driver supports the following HPE Intel ICEA 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-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: 2026.03.00 (Recommended)

Important Note!

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

file.

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

Fixes

・This product fixed RDMA configuration cleanup during transitions between Native and ENS modes, as well as state changes.
・This product removed warning messages during driver unload by improving cleanup of TX scheduler configuration.
・This product fixed VLAN list cleanup during VF reset, ensuring VLAN properties can be configured correctly by the OS.

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-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

Intel icen Driver for VMware vSphere 9.0

Version: 2026.03.00 (Recommended)

Important Note!

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

file.

・HPE recommends the firmware provided in Intel Firmware Package For E810 Ethernet Adapter, version 4.91 or later, for use with these drivers.

Fixes

- This product fixed RDMA configuration cleanup during transitions between Native and ENS modes, as well as state changes.
- This product removed warning messages during driver unload by improving cleanup of TX scheduler configuration.
- This product fixed VLAN list cleanup during VF reset, ensuring VLAN properties can be configured correctly by the OS.

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-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

Mellanox WinOF2 Driver for Microsoft Windows Server 2022

Version: 25.7.26882.0 (Recommended)

Fixes

This product fixed an issue where the Relaxed Ordering feature was incorrectly disabled when using firmware versions newer than XX.36.2024.

Supported Devices and Features

This driver supports the following network adapters:

- HPE Ethernet 100Gb 2-Port QSFP56 MCX623106AS-CDAT Adapter

Mellanox WinOF2 Driver for Microsoft Windows Server 2025

Version: 25.7.26882.0 (Recommended)

Fixes

This product fixed an issue where the Relaxed Ordering feature was incorrectly disabled when using firmware versions newer than XX.36.2024.

Supported Devices and Features

This driver supports the following network adapters:

- HPE Ethernet 100Gb 2-Port QSFP56 MCX623106AS-CDAT Adapter

Intel QuickAssist Technology driver for Microsoft Windows

Version: 2.6.0.30 (Recommended)

Fixes

- Intel is releasing software updates to mitigate some potential vulnerabilities covered in INTEL-SA-01373, which includes CVE-2025-33000, CVE-2025-27713, CVE-2025-32732, CVE-2025-32446, CVE-2025-27710, CVE-2025-

3193, CVE-2025-266947, CVE-2025-30509 and CVE-2025-32088.

Enhancements

- Updated supported products
- Update setup utility dependencies

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: 2026.03.01 (Recommended)

Important Note!

- Actual Version is 7.736.02.00

Fixes

- Fix an issue that driver unload will fail if there is any management command is outstanding

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: 2026.03.01 (Recommended)

Important Note!

- Actual Version is 7.736.02.00

Fixes

- Fix an issue that storcli show /cx/ex/sx poh (power on hour) command report error on NVMe drives
- Fix an issue that PSOC update is not allowing when the part number is beyond 65535

Enhancements

- Return error when enabling encryption with 256 characters for keyid in Drive Security command
- Display the controller serial number as "NA" when not programmed

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: 07.736.04.00 (Recommended)

Fixes

- Fix an issue that NVMe device properties function lacks NULL checks before using request_queue->limits
- Fix IOMMU exceptions for some commands. The affected commands are
  - REPORT ZONES (opcode 0x95, service action 0x00)
  - GET PHYSICAL ELEMENT STATUS (opcode 0x9E, service action 0x17)

- SECURITY PROTOCOL IN (opcode 0xA2)

・Fixed an issue where zero-length ATA VPD inquiry commands were not handled correctly and failed with a non-standard status code (0xF0)

・Fix SCSI host template callback for kernel 6.12

Enhancements

・Improved handling of dma_alignment and the NVMe boundary mask for better compatibility across kernel versions

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: 7.736.3.0 (Recommended)

Fixes

・Added PowerSrbTimeout in subkey parameters value in INF File.

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

Version: 2026.01.01 (Recommended)

Important Note!

・Actual ESXi8.0 driver version is 80.4880.0.109

・Actual ESXi9.0 driver version is 90.4880.0.109

・HPE Service Pack for ProLiant (SPP) provides a fully qualified recipe for specific firmware and drivers released within the same cycle, making it the primary recommended choice.

・It is strongly recommended to use controller firmware version 8.00 for SR SAS/SATA controllers and firmware version 03.01.44.040 for SR tri-mode controllers, along with Windows 2022/2025 driver version 1016.30.0.1014, Linux driver version 2.1.38-022, and VMware ESXi driver version 80.4880.0.109/90.4880.0.109, as this combination has been fully qualified.

・For Windows 2016 driver, please use 1010.84.0.1012 in below link: XXXX

・For Windows 2019 driver, please use 1016.10.0.1004 in below link: https://www.hpe.com/global/swpublishing/MTX-29e86213c3ab4e94b0b54906f7

Fixes

・Fixed an issue that device is inappropriately reported as invalid and is removed during reset.

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

Version: 2026.01.01 (Recommended)

Important Note!

・Actual ESXi8.0 driver version is 80.4880.0.109

・Actual ESXi9.0 driver version is 90.4880.0.109

・HPE Service Pack for ProLiant (SPP) provides a fully qualified recipe for
specific firmware and drivers released within the same cycle, making it the primary recommended choice.
・It is strongly recommended to use controller firmware version 8.00 for SR SAS/SATA controllers and firmware version 03.01.44.040 for SR tri-mode controllers, along with Windows 2022/2025 driver version 1016.30.0.1014,
Linux driver version 2.1.38-022, and VMware ESXi driver
version 80.4880.0.109/90.4880.0.109, as this combination has been fully qualified.
・For Windows 2016 driver, please use 1010.84.0.1012 in below link: XXXX
・For Windows 2019 driver, please use 1016.10.0.1004 in below link:
https://www.hpe.com/global/swpublishing/MTX-29e86213c3ab4e94b0b54906f7

Fixes

・Fixed an issue that device is inappropriately reported as invalid and is removed during reset.

HPE ProLiant Gen10, Gen10Plus and Gen11 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 9 (64-bit)

Version: 2.1.38-022 (Recommended)

Important Note!

・HPE Service Pack for ProLiant (SPP) provides a fully qualified recipe for
specific firmware and drivers released within the same cycle, making it the primary recommended choice.
・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.

Enhancements

N/A.

Supported Devices and Features

SUPPORTED KERNELS:
The kernels of Red Hat Enterprise Linux9 (64-bit) supported by this binary rpm are:
-default- Red Hat Enterprise Linux 9 Update 0 (64-bit).

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

Version: 1016.30.0.1014 (Recommended)

Important Note!

・HPE Service Pack for ProLiant (SPP) provides a fully qualified recipe for
specific firmware and drivers released within the same cycle, making it the primary recommended choice.
・It is strongly recommended to use controller firmware version 8.00 for SR SAS/SATA controllers and firmware version 03.01.44.040 for SR tri-mode controllers, along with Windows 2022/2025 driver

version 1016.30.0.1014,

Linux driver version 2.1.38-022, and VMware ESXi driver

version 80.4880.0.109/90.4880.0.109, as this combination has been fully qualified.

・For Windows 2016 driver, please use 1010.84.0.1012 in below link:

https://www.hpe.com/global/swpublishing/MTX-c523e081ab344bc4b4bc9d5686

・For Windows 2019 driver, please use 1016.10.0.1004 in below link:

https://www.hpe.com/global/swpublishing/MTX-29e86213c3ab4e94b0b54906f7

Enhancements

N/A.

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: 7.736.3.0 (Recommended)

Fixes

・Added PowerSrbTimeout in subkey parameters value in INF File.

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

Version: 14.4.624.0 (Recommended)

Important Note!

This component is supported only on Gen12 ProLiant servers.

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

Updated to driver version 14.4.624.0

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

elxdrvr-fc-version.exe /q2 extract=2 The extracted files are located:

C:¥Users¥Administrator¥Documents¥Emulex¥Drivers¥FC-version

Each kit folder has subsequent architecture folders with subsequent OS folders. For example,

C:¥Users¥Administrator¥Documents¥Emulex¥Drivers¥FC-version¥x64¥win2022

Supported Devices and Features

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

32Gb FC Adapter:

・HPE SN1620E 32Gb Dual port Fibre Channel Host Bus Adapter

64Gb FC Adapter:

・HPE SN1720E 64Gb Dual port Fibre Channel Host Bus Adapter

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

Version: 14.4.624.1 (Recommended)

Important Note!

This component is supported only on Gen12 ProLiant servers.

Release notes:

Broadcom Release notes

Added following Enhancement:

Reverted IRQ count to 128 from 240 in inf file to avoid resource constraints on low end server configurations

Prerequisites

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

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

Enhancements

Updated to driver version 14.4.624.1

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

elxdrvr-fc-version.exe /q2 extract=2

The extracted files are located:

C:¥Users¥Administrator¥Documents¥Emulex¥Drivers¥FC-version

Each kit folder has subsequent architecture folders with subsequent OS folders. For example,

C:¥Users¥Administrator¥Documents¥Emulex¥Drivers¥FC-version¥x64¥win2022

Added following Enhancement:

Reverted IRQ count to 128 from 240 in inf file to avoid resource constraints on low end server configurations

Supported Devices and Features

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

32Gb FC Adapter:

・HPE SN1620E 32Gb Dual port Fibre Channel Host Bus Adapter

64Gb FC Adapter:

・HPE SN1720E 64Gb Dual port Fibre Channel Host Bus Adapter

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

Version: 9.4.11.20 (c) (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/

Fixes

Updated Driver and installer Digital Signature Validity

Enhancements

Updated to version 9.4.11.20

Supported Devices and Features

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

32Gb Fibre Channel Host Bus Adapter:

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

64Gb Fibre Channel Host Bus Adapter:

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

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

Version: 9.4.11.20 (d) (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/

Fixes

Updated Driver and Installer Digital Signature validity

Enhancements

Updated to version 9.4.11.20

Supported Devices and Features

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

32Gb Fibre Channel Host Bus Adapter:

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

64Gb Fibre Channel Host Bus Adapter:

・HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter

・HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter

Red Hat Enterprise Linux 9 Update 6 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapter

Version: 14.4.731.6 (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 Updated to driver version 14.4.731.6

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 14.4.731.6

Supported Devices and Features

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

32Gb FC Adapter:

・HPE SN1620E 32Gb Dual port Fibre Channel Host Bus Adapter

64Gb FC Adapter:

・HPE SN1720E 64Gb Dual port Fibre Channel Host Bus Adapter

Red Hat Enterprise Linux 9 Update 6 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters

Version: 10.02.15.00-k1 (Recommended)

Important Note!

This component is supported only on Gen12 ProLiant servers. Release Notes:

HPE QLogic Adapters Release Notes NOTE:

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 10.02.15.00-k1

Supported Devices and Features

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

32Gb Fibre Channel Host Bus Adapter:

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

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

64Gb Fibre Channel Host Bus Adapter:

・HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter

・HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter

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

Version: 4.8.0.0 (E) (Optional)

Enhancements

・Updated supported environments

・Updated supported products

・Updated setup utility dependencies

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

Version: 4.8.0.0 (E) (Optional)

Enhancements

・Updated supported environments

・Updated supported products

・Updated setup utility dependencies

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

Version: 9.15.1.268 (F) (Optional)

Enhancements

・Updated setup utility dependencies

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

Version: 9.15.1.271 (D) (Optional)

Enhancements

・Updated supported environments

・Updated supported products

・Updated setup utility dependencies

Language Pack - Japanese

Version: 1.20.00 (Recommended)

Prerequisites

Requires iLO 7 firmware version 1.14 or higher

Enhancements

Translation of messages added in iLO7 1.20

Broadcom Firmware Package for BCM5741x adapters

Version: 235.1.164.14 (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 235.1.122.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-235.1.154.0 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.11.00 or later

Fixes

- This product fixes the issue where the firmware version details failed to update and the card showed as not operational after upgrading BCM5741x adapters
- This product fixes the issue where failed to detect a 10GBASE-LR SFP+ causing incorrect defaults and a link failure.
- This product fixes the issue where iLO BMC shared IP on OCP NIC, link flap occurred during OS reboot.
- This product fixes the issue where the adapter is unable to establish link after rebooting when using the “HPE 10GBASE-T SFP+ 30m RJ45 Transceiver” HPE PN 813874-B21 with vendor PN SP7053-HPE.

Enhancements

This product enhancement enables a self-shutdown feature to prevent overheating when certain monitoring features are disabled.

It applies only to newer hardware that originally shipped with firmware version 223.1.135.7 or higher and is not enabled on earlier revisions.

Supported Devices and Features

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port SFP+ BCM57412 Adapter
- HPE Ethernet 10Gb 2-port SFP+ BCM57412 OCP3 Adapter
- HPE Ethernet 10Gb 2-port BaseT BCM57416 Adapter
- HPE Ethernet 10Gb 2-port BaseT BCM57416 OCP3 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter
- HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 OCP3 Adapter

Broadcom Firmware Package for BCM5750x adapters

Version: 235.1.164.7 (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 235.1.122.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-235.1.164.0 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.11.00 or later

Fixes

- This product fixes the issue where 10Gb SFP (SP7053-HPE) adapters are unable to establish a link after rebooting with BCM 57504 and 5741x adapters
- This product fixes the issue where BCM5741x NICs no longer connect after firmware 228.x FW with 10Gb-RJ45 Transceivers

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: 235.1.164.14 (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 235.1.122.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-235.1.154.0 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.11.00 or later

Fixes

- This product fixes the issue where RDE "Location" property is missing under "NetworkAdapter" schema.

Supported Devices and Features

This product supports the following network adapters:

- Broadcom BCM57608 Ethernet 100Gb 2-port QSFP112 Adapter for HPE

Broadcom Firmware Package for BCM57608 100GbE 2p OCP3 Adapter

Version: 235.1.164.14 (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 235.1.122.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-235.1.154.0 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.11.00 or later

Fixes

- This product fixes the issue where OS installation failed with shared nic BCM 957508-N2 100Gb/s OCP.
- This product fixes the issue where RDE "Location" property is missing under "NetworkAdapter" schema.

Supported Devices and Features

This product supports the following network adapters:

- Broadcom BCM57608 Ethernet 100Gb 2-port QSFP112 OCP3 Adapter for HPE

Broadcom NX1 Firmware Package for BCM5719 adapter

Version: 20.35.41 (Recommended)

Important Note!

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

Fixes

- This product fixes the issue where unique serial number in VPD (Vital Product Data) will be altered to a dummy serial number
- This product fixes the issue where Failing to Obtain iLO shared NIC DHCP IP and MCTP EID Missing during Reboot.
- This product fixes the issue where PCI Temperature sensor might be missing intermittently causing Increase in Fan Speed

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: 20.35.41 (Recommended)

Important Note!

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

Fixes

- This product fixes the issue where unique serial number in VPD (Vital Product Data) will be altered to a dummy serial number
- This product fixes the issue where Failing to Obtain iLO shared NIC DHCP IP and MCTP EID Missing during Reboot.
- This product fixes the issue where PCI Temperature sensor might be missing intermittently causing Increase in Fan Speed

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: 4.91 (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 1.18.71.0 or later

・Intel ice Drivers for Linux, version 2.4.5-1 or later

・Intel icen Driver for VMware, version 2026.03.00 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 fixed an issue where the Shared NIC IP was not assigned for OCP Slot B network adapters on Gen12 ProLiant servers.

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: 4.91 (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 1.18.71.0 or later

・Intel ice Drivers for Linux, version 2.4.5-1 or later

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Fixes

・This product fixed an issue where the Shared NIC IP was not assigned for OCP Slot B network adapters on Gen12 ProLiant servers.

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: 4.91 (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 1.18.71.0 or later

・Intel ice Drivers for Linux, version 2.4.5-1 or later

・Intel icen Driver for VMware, version 2026.03.00 or later

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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: 4.91 (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 1.18.71.0 or later

・Intel ice Drivers for Linux, version 2.4.5-1 or later

・Intel icen Driver for VMware, version 2026.03.00 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 fixed an issue where the Shared NIC IP was not assigned for OCP Slot B network adapters on Gen12 ProLiant servers.

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: 4.91 (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 1.18.71.0 or later

・Intel ice Drivers for Linux, version 2.4.5-1 or later

・Intel icen Driver for VMware, version 2026.03.00 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 fixed an issue where the Shared NIC IP was not assigned for OCP Slot B network adapters on Gen12 ProLiant servers.

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: 26.46.3048 (Recommended)

Important Note!

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,

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A list of known issues with this release is available

at: https://docs.nvidia.com/networking/display/connectx6lxfirmwarev26463048/known+is sues

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 26.46.3048:

- Configuring a small MTU led to fragmentation of packets critical for the PXE boot process. As a result, the PXE boot filters mistakenly discarded these

packets, causing the PXE boot to fail.

Enhancements

New features and changes included in version 26.46.3048:

- Added support for RSS with crypto offload enabling the NIC to parallelize

packet processing across CPU cores while performing encryption/decryption

in hardware. Additionally, introduced a new l4_type_ext parameter with values: 0 (None), 1 (TCP), 2 (UDP), 3 (ICMP).

- Added an extra validation for the payload_len field in incoming NC-SI messages. Previously, invalid packets might have been accepted; now, such packets are silently dropped.
- This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

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: 26.46.3048 (Recommended)

Important Note!

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,

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A list of known issues with this release is available

at: https://docs.nvidia.com/networking/display/connectx6lxfirmwarev26463048/known+is sues

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 26.46.3048:

- Configuring a small MTU led to fragmentation of packets critical for the PXE boot process. As a result, the PXE boot filters mistakenly discarded these

packets, causing the PXE boot to fail.

Enhancements

New features and changes included in version 26.46.3048:

- Added support for RSS with crypto offload enabling the NIC to parallelize

packet processing across CPU cores while performing encryption/decryption in hardware. Additionally, introduced a new l4_type_ext parameter with

values: 0 (None), 1 (TCP), 2 (UDP), 3 (ICMP).

- Added an extra validation for the payload_len field in incoming NC-SI messages. Previously, invalid packets might have been accepted; now, such packets are silently dropped.
- This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices

firmware to this release to improve the devices' firmware security and reliability.

Supported Devices and Features

HPE Part Number	NVIDIA Ethernet Only Adapters	PSID
P42041-B21	Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	MT_0000000551

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: 28.47.1026 (Recommended)

Important Note!

For PLDM enabled VPI (Virtual Protocol Interconnect) adapters supporting both InfiniBand mode and Ethernet modes, every firmware version is made available in two different formats at HPE.com:

1. HPE signed PLDM Firmware Package (.FWPKG filename extension) updatable via iLO.

2. Firmware binary (.bin filename extension) updatable via mstflint utility from the Operating System.

Choose the appropriate firmware file format based on your preference and what suits your environment.

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A list of known issues with this release is available
at: https://docs.nvidia.com/networking/display/connectx7firmwarev28471026/known-issues

Fixes

The following issues have been fixed in version 28.47.1026:

- The ZTR_RTTCC algorithm parameters AI and HAI did not support a sufficient range.
- Coalescing regular SX events with SX RTT events under ZTR_RTTCC would
keep improper event fields, which would impact congestion control behavior.
- Issue in the ZTR_RTTCC algorithm where probe-abortion handling would behave improperly under high-stress network conditions, affecting proper congestion control and stable traffic performance.
- An assertion failure that would occur with the E-Switch uplink in specific configurations where the e-switch was disabled and Path Migration was active or GVMIs were using SRQ loopback in SQs. The issue occurred
because the firmware attempted to perform cleanup operations when the uplink configuration lacked sufficient capacity. Now, when the E-Switch is disabled and no actions are available in the uplink STE, the firmware connects to the uplink STE instead of copying it.
- MCTP SMBus configuration issue which affected proper initialization and reliable communication between firmware components using the SMBus transport.
- During failover or restart, the SM sending a PortInfo MAD to the HCA firmware triggered reinitialization of port buffers, momentarily halting ingress traffic
and causing packet drops. The firmware now avoids reconfiguring port buffers when the new configuration matches the current one.
- Under the ZTR_RTTCC algorithm, a flow that reached its minimum rate due to heavy congestion would not recover its rate once the congestion cleared.
- Destroying or modifying a DPA partition from a non-owner VHCA was incorrectly allowed, such actions are now properly disallowed.
- PTP was not supported when the port speed was configured to 1G.

Enhancements

New features and changes included in version 28.47.1026:

- Added Scaling Factor "read" field. To obtain correct values in mlxlink, MFT version 4.33.0 or later is required.
- Added a recovery mechanism for I^2C failures. In case of an I^2C
communication failure, the system now automatically attempts to recover and reinitialize the I/O expander to maintain continuous operation.

- Added support for multiple lossless buffer configurations in PFC. The firmware now automatically calculates buffer sizes and maps priorities to their respective buffers.
- Access control was added to ensure that only the VHCA instance that created a DPA partition is permitted to modify or delete it.
- DPA TIMER functionality has been exposed through the MTCTR access register, allowing direct access by applications.
- A new DPA Manifest mechanism was introduced to define and manage application permissions.
- Enabled seamless metadata propagation across layers, allowing flow steering rules and packet processing logic to share contextual information such as flow identifiers, source context, or policy tags. It improves

coordination between NIC and E-Switch pipelines, enabling more flexible traffic handling and advanced offload capabilities.

- Added support for parallel suspend operations across multiple VFs.
- Added the ability to enable or disable ECN in the upstream by allowing the MODIFY_CONG_STATUS and QUERY_CONG_STATUS commands in mlx5_fwctl.
- Firmware now allows the ADP-RETX timeout profile to be configured even when there are open QPs.
- Added support for using the real-time clock to fill the request and response timestamps in hardware-generated RTT packets. To enable this feature, set REAL_TIME_CLOCK_ENABLE in mlxconfig and configure

ROCE_CC_RTT_TIMESTAMP_FORMAT to 0x02 (REAL_TIME).

- The SPDM (Security Protocol and Data Model) measurements reporting mechanism has been updated to comply with version 1.2.0 of the SPDM specification. For further information refer to

https://docs.nvidia.com/networking/display/dpunicattestation/connectx-7+measurements

- Added support for warm boot when UPT VMs are active, allowing the system to reboot without requiring a full shutdown of running VMs.

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: 28.47.1026 (Recommended)

Important Note!

For PLDM enabled VPI (Virtual Protocol Interconnect) adapters supporting both InfiniBand mode and Ethernet modes, every firmware version is made available in two different formats at HPE.com:

1. HPE signed PLDM Firmware Package (.FWPKG filename extension) updatable via iLO.
2. Firmware binary (.bin filename extension) updatable via mstflint utility from the Operating System.

Choose the appropriate firmware file format based on your preference and what suits your environment.
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A list of known issues with this release is available
at: https://docs.nvidia.com/networking/display/connectx7firmwarev28471026/known-issues

Prerequisites

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

Fixes

The following issues have been fixed in version 28.47.1026:

- The ZTR_RTTCC algorithm parameters AI and HAI did not support a sufficient range.
- Coalescing regular SX events with SX RTT events under ZTR_RTTCC would

keep improper event fields, which would impact congestion control behavior.

- Issue in the ZTR_RTTCC algorithm where probe-abortion handling would behave improperly under high-stress network conditions, affecting proper congestion control and stable traffic performance.
- An assertion failure that would occur with the E-Switch uplink in specific configurations where the e-switch was disabled and Path Migration was active or GVMIs were using SRQ loopback in SQs. The issue occurred

because the firmware attempted to perform cleanup operations when the uplink configuration lacked sufficient capacity. Now, when the E-Switch is disabled and no actions are available in the uplink STE, the firmware connects to the uplink STE instead of copying it.

- MCTP SMBus configuration issue which affected proper initialization and reliable communication between firmware components using the SMBus transport.
- During failover or restart, the SM sending a PortInfo MAD to the HCA firmware triggered reinitialization of port buffers, momentarily halting ingress traffic

and causing packet drops. The firmware now avoids reconfiguring port buffers when the new configuration matches the current one.

- Under the ZTR_RTTCC algorithm, a flow that reached its minimum rate due to heavy congestion would not recover its rate once the congestion cleared.
- Destroying or modifying a DPA partition from a non-owner VHCA was incorrectly allowed, such actions are now properly disallowed.
- PTP was not supported when the port speed was configured to 1G.

Enhancements

New features and changes included in version 28.47.1026:

- Added Scaling Factor "read" field. To obtain correct values in mlxlink, MFT version 4.33.0 or later is required.
- Added a recovery mechanism for I²C failures. In case of an I²C communication failure, the system now automatically attempts to recover and reinitialize the I/O expander to maintain continuous operation.
- Added support for multiple lossless buffer configurations in PFC. The firmware now automatically calculates buffer sizes and maps priorities to their respective buffers.
- Access control was added to ensure that only the VHCA instance that created a DPA partition is permitted to modify or delete it.
- DPA TIMER functionality has been exposed through the MTCTR access register, allowing direct access by applications.
- A new DPA Manifest mechanism was introduced to define and manage application permissions.
- Enabled seamless metadata propagation across layers, allowing flow steering rules and packet processing logic to share contextual information such as flow identifiers, source context, or policy tags. It improves coordination between NIC and E-Switch pipelines, enabling more flexible traffic handling and advanced offload capabilities.
- Added support for parallel suspend operations across multiple VFs.
- Added the ability to enable or disable ECN in the upstream by allowing the MODIFY_CONG_STATUS and QUERY_CONG_STATUS commands in mlx5_fwctl.
- Firmware now allows the ADP-RETX timeout profile to be configured even when there are open QPs.
- Added support for using the real-time clock to fill the request and response timestamps in hardware-generated RTT packets. To enable this feature, set REAL_TIME_CLOCK_ENABLE in mlxconfig and configure ROCE_CC_RTT_TIMESTAMP_FORMAT to 0x02 (REAL_TIME).
- The SPDM (Security Protocol and Data Model) measurements reporting mechanism has been updated to comply with version 1.2.0 of the SPDM specification. For further information refer to https://docs.nvidia.com/networking/display/dpunicattestation/connectx-7+measurements
- Added support for warm boot when UPT VMs are active, allowing the system to reboot without requiring a full shutdown of running VMs.

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: 28.47.1026 (Recommended)

Important Note!

For PLDM enabled VPI (Virtual Protocol Interconnect) adapters supporting both InfiniBand mode and Ethernet modes, every firmware version is made available in two different formats at HPE.com:

1. HPE signed PLDM Firmware Package (.FWPKG filename extension) updatable via iLO.
2. Firmware binary (.bin filename extension) updatable via mstflint utility from the Operating System.

Choose the appropriate firmware file format based on your preference and what suits your environment.

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A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/connectx7firmwarev28471026/known-issues

Fixes

The following issues have been fixed in version 28.47.1026:

- The ZTR_RTTCC algorithm parameters AI and HAI did not support a sufficient range.
- Coalescing regular SX events with SX RTT events under ZTR_RTTCC would keep improper event fields, which would impact congestion control behavior.
- Issue in the ZTR_RTTCC algorithm where probe-abortion handling would behave improperly under high-stress network conditions, affecting proper congestion control and stable traffic performance.
- An assertion failure that would occur with the E-Switch uplink in specific configurations where the e-switch was disabled and Path Migration was active or GVMIs were using SRQ loopback in SQs. The issue occurred because the firmware attempted to perform cleanup operations when the uplink configuration lacked sufficient capacity. Now, when the E-Switch is disabled and no actions are available in the uplink STE, the firmware connects to the uplink STE instead of copying it.
- MCTP SMBus configuration issue which affected proper initialization and reliable communication between firmware components using the SMBus transport.
- During failover or restart, the SM sending a PortInfo MAD to the HCA firmware triggered reinitialization of port buffers, momentarily halting ingress traffic and causing packet drops. The firmware now avoids reconfiguring port buffers when the new configuration matches the current one.
- Under the ZTR_RTTCC algorithm, a flow that reached its minimum rate due to heavy congestion would

not recover its rate once the congestion cleared.

- Destroying or modifying a DPA partition from a non-owner VHCA was incorrectly allowed, such actions are now properly disallowed.
- PTP was not supported when the port speed was configured to 1G.

Enhancements

New features and changes included in version 28.47.1026:

- Added Scaling Factor "read" field. To obtain correct values in mlxlink, MFT version 4.33.0 or later is required.
- Added a recovery mechanism for I^2C failures. In case of an I^2C communication failure, the system now automatically attempts to recover and reinitialize the I/O expander to maintain continuous operation.
- Added support for multiple lossless buffer configurations in PFC. The firmware now automatically calculates buffer sizes and maps priorities to their respective buffers.
- Access control was added to ensure that only the VHCA instance that created a DPA partition is permitted to modify or delete it.
- DPA TIMER functionality has been exposed through the MTCTR access register, allowing direct access by applications.
- A new DPA Manifest mechanism was introduced to define and manage application permissions.
- Enabled seamless metadata propagation across layers, allowing flow steering rules and packet processing logic to share contextual information such as flow identifiers, source context, or policy tags. It improves coordination between NIC and E-Switch pipelines, enabling more flexible traffic handling and advanced offload capabilities.
- Added support for parallel suspend operations across multiple VFs.
- Added the ability to enable or disable ECN in the upstream by allowing the MODIFY_CONG_STATUS and QUERY_CONG_STATUS commands in mlx5_fwctl.
- Firmware now allows the ADP-RETX timeout profile to be configured even when there are open QPs.
- Added support for using the real-time clock to fill the request and response timestamps in hardware-generated RTT packets. To enable this feature, set REAL_TIME_CLOCK_ENABLE in mlxconfig and configure ROCE_CC_RTT_TIMESTAMP_FORMAT to 0x02 (REAL_TIME).
- The SPDM (Security Protocol and Data Model) measurements reporting mechanism has been updated to comply with version 1.2.0 of the SPDM specification. For further information refer to https://docs.nvidia.com/networking/display/dpunicattestation/connectx-7+measurements
- Added support for warm boot when UPT VMs are active, allowing the system to reboot without requiring a full shutdown of running VMs.

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: 22.46.3048 (Recommended)

Important Note!

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A list of known issues with this release is available
at: https://docs.nvidia.com/networking/display/connectx6dxfirmwarev22463048/known+is sues

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 22.46.3048:

- Configuring a small MTU led to fragmentation of packets critical for the PXE boot process. As a result, the PXE boot filters mistakenly discarded these

packets, causing the PXE boot to fail.

Enhancements

New features and changes included in version 22.46.3048:

- Added support for RSS with crypto offload enabling the NIC to parallelize

packet processing across CPU cores while performing encryption/decryption in hardware. Additionally, introduced a new l4_type_ext parameter with
values: 0 (None), 1 (TCP), 2 (UDP), 3 (ICMP).

- Added an extra validation for the payload_len field in incoming NC-SI messages. Previously, invalid packets might have been accepted; now, such packets are silently dropped.

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

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: HPK6 (Recommended)

Fixes

- Changes have been made in the 7500 firmware HPK6 over the previous firmware release to address Uncorrectable PCIe errors that are reported as ACS violations when Function Level Resets (FLR) are issued to the drive.

If this firmware is not updated, errors will be reported in HPE's iLO logging but there is no risk to user data or drive reliability.

Enhancements

- Disabled Latency Tolerance Reporting Feature
- Drop MCTP command when interrupted by a Function Level Reset (FLR)

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: HPK6 (Recommended)

Important Note!

PM9A3 does not support MCTP over PCIe due to a hardware limitation; therefore, updating FW using FWPKG does not work through the ILO GUI "Update Firmware" button.

Fixes

- This FW release modifies drive's behavior from "returning error" to "silently discard" if a request is received by drive from the host during FLR.

Universal Firmware Package for Drives - VR000480KXLXF

Version: HPK4 (Recommended)

Important Note!

- PM9A3 does not support MCTP over PCIe due to a hardware limitation; therefore, updating FW using FWPKG does not work through the ILO GUI "Update Firmware" button.

Fixes

- This FW update contains the fix for false ILO message of temporary drive "degraded" status.
- After the FW update, if the latest drive FW version is not correctly reflected in iLO under the scenarios outlined below, a system reboot or iLO reset may be required.
- HPK2 -> HPK4 (or later version)
- HPK3 -> HPK4 (or later version)

Universal Firmware Package for Drives - VR000480KYXPQ, VR000960KYXQA and VR001920KYXQB

Version: HPK2 (Recommended)

Fixes

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

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: HPK8 (Recommended)

Fixes

・HPK8 is a planned maintenance release that follows HPK5. This is a recommended FW release that provides bug fixes for 15.36T, 7.68T, 3.84T (4K IU) Solid State Drives.

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

URL: https://support.hpe.com/hpesc/public/docDisplay?docId=emr_na-a00150459en_us

Universal Firmware Package for Drives - VV030720KYNYP

Version: HPK6 (Recommended)

Fixes

・HPK6 is a planned maintenance release that follows the HPK3 FW release for 30.72TB (8K IU) Solid State Drive. This is a recommended FW release

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

URL: https://support.hpe.com/hpesc/public/docDisplay?docId=emr_na-a00150459en_us

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: HPK4 (Recommended)

Fixes

・Regular FW maintenance release for sanitize, DRAM and log page fix.

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 - MO001600KYLEC, MO003200KYLHL, MO006400KYLHN, VO001920KYLEB, VO003840KYLHF, VO007680KYLHH and VO015360KYLHK

Version: HPK1 (Recommended)

Fixes

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

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

Version: HPK4 (Recommended)

Fixes

- Regular FW maintenance release for sanitize, DRAM and log page fix.

Universal Firmware Package for Drives - MV001600KYNVA, MV003200KYNVC, MV006400KYNVD, VV001920KYNVB, VV003840KYNVE, VV007680KYNVF and VV015360KYNVH

Version: HPK2 (Recommended)

Fixes

- This is a maintenance release that contains code fix improvements and drive function enhancements, which required one time power cycle.

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

Version: HPK3 (B) (Recommended)

Fixes

- Fix FW force update from iLO GUI or SPP (HPK3 --> HPK3)
- 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: HPK4 (Recommended)

Enhancements

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 - MV003200LYJKH, MV006400LYJKK, VV007680LYJKF and VV015360LYXMT

Version: HPK4 (Recommended)

Fixes

・Regular FW maintenance release for sanitize, DRAM,DMA transfer and log page fix.

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

Version: HPS3 (Recommended)

Important Note!

There is a new FW HPS5 to fix a critical issue, here is the advisory in more detail.

・Advisory: HPE SSD – CUSTOMER ACTION REQUIRED to Prevent Potential System "No Boot" Error When SPDM Is Enabled on Certain Models of SSDs

Fixes

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

・Changes to improve our PCIe link compatibility as well as device reliability

・This firmware update is recommended as it improves our system interoperability and prevents specific scenarios that could cause the drive to become unresponsive.

Universal Firmware Package for Drives - 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 - VV001920KYMLU, VV003840KYMME, VV007680KYMMF and VV015360KYMMH

Version: HPK5 (Recommended)

Fixes

- Regular maintenance release including NAND logic enhancement, PLP management enhancement, NVMe MI enhancement, SMART 47/48 support, etc.

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 - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK

Version: HPD4 (Recommended)

Fixes

・Remove ROM flash way from this FWPKG.

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 - MB020000JXMVU

Version: HPD1 (B) (Recommended)

Fixes

・Remove ROM flash way from this FWPKG.

Universal Firmware Package for Drives - MB12000JYESN, MB16000JYEVC, MB20000JYEVD

Version: HPD3 (Recommended)

Fixes

・Regular FW fix on assert, time-out, error log several fixes

Enhancements

・RPM data missing from iLO GUI (Can't downgrade backward to HPD1)

Universal Firmware Package for Drives - MB24000JYEVE

Version: HPD3 (Recommended)

Fixes

・Regular FW fix on assert, time-out, error log several fixes

Enhancements

・RPM data missing from iLO GUI (Can't downgrade backward to HPD1)

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=a00150711e n_us.

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

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=a00150711e n_us.

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

Version: HPD1 (B) (Recommended)

Fixes

- Remove ROM flash way from this FWPKG.

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

Version: HPG3 (Recommended)

Fixes

Regular Firmware changes included:

- corner case performance enhance.
- 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: HPG5 (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 - 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: HPG3 (Recommended)

Fixes

Regular FW fix on assert, time-out, error log several 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
- Preventive corner-case and situational adjustments for a potential Read hang, rare weak read and some “housekeeping” items (display, command outputs, delay on power-up and log maintenance)

Universal Firmware Package for Drives - MB002000GYDNK and MB004000GYDPD

Version: HPG4 (Recommended)

Fixes

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

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 - MB006000GWKGR

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 - MB006000GWZVL and MB008000GWZVN

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 - 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

- Assert fixes, current firmware improvements and bug fixes

Universal Firmware Package for Drives - MB24000GYEVK

Version: HPG3 (Recommended)

Fixes

- Regular FW fix on assert, time-out, error log several fixes.

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: 8.00 (Recommended)

Important Note!

- HPE Service Pack for ProLiant (SPP) provides a fully qualified recipe for specific firmware and drivers released within the same cycle, making it the primary recommended choice.
- It is strongly recommended to use controller firmware version 8.00 for SR SAS/SATA controllers and firmware version 03.01.44.040 for SR tri-mode controllers, along with Windows 2022/2025 driver version 1016.30.0.1014, Linux driver version 2.1.38-022, and VMware ESXi driver version 80.4880.0.109/90.4880.0.109, as this combination has been fully qualified.
- For Windows 2016 driver, please use 1010.84.0.1012 in below link: https://www.hpe.com/global/swpublishing/MTX-c523e081ab344bc4b4bc9d5686
- For Windows 2019 driver, please use 1016.10.0.1004 in below link: https://www.hpe.com/global/swpublishing/MTX-29e86213c3ab4e94b0b54906f7

Fixes

- Fixed an issue that prevented drive rebuilds from restarting after unexpected power loss when media exchange was accepted in auto-replace spare configurations.
- Fixed an issue that caused auto-replace spare activation during the LOOSE_CABLE state, which could swap data drives prematurely and lead to volume failure and potential data integrity issues.
- Fixed an issue where IOPS could drop on large-capacity HDDs during Consistency Check under 4K random write workloads in RAID 1 configurations.
- Fixed an issue no-battery write cache (NBWC) can be enabled by the user in the event of a battery failure, unless the cache module itself is experiencing an error.
- Fixed an issue where ATA passthrough IDENTIFY DEVICE (0xEC) commands issued from BMC could time out due to incorrect transfer length handling.
- Fixed an issue where SSD array creation with non-deterministic drive ordering could incorrectly disable Acceralted IO on some drives, leading to performance degradation.
- Fixed an issue where the fault LED did not illuminate for a hot-removed data drive during RAID rebuild with auto replace spare enabled.
- Fixed an issue where the system could become unresponsive with lockup

code as 0x1E00 when multiple out-of-band management requests were sent concurrently for the same session.

- Fixed an issue where failed or missing drives were not correctly indicated when listing drives in the HII disk utilities menu.
- Fixed an issue where PLDM Type 6 volume creation could fail on certain controllers that do not support volume caching or the IOPerfModeEnabled feature. Volume creation and update requests that explicitly disable these features (for example, setting cache policies to Off or IOPerfModeEnabled to false) are now handled correctly and will no longer be rejected.
- Fixed an issue where RDE READ could incorrectly report a split mirror backup volume as Enabled instead of StandbyOffline when the original primary volume was created via RDE CREATE. Volume usage identification was corrected to ensure accurate status reporting.
- Fixed an issue where DriveMetrics.PowerOnHours could be incorrectly

reported as zero for SSDs on certain platforms. Power-on hours reporting was updated by drive type, NVMe drives reporting with
DriveMetrics.NVMeSMART.PowerOnHours, SAS and SATA HDDs reporting a null value.

Enhancements

- Logical drive information menu: Enhanced to display the association between failed data drives and active spares upon drive failure.
- "Added support for the standardized Operation property in PLDM Operations arrays, providing schema-defined operation enums as below:

Drive Resource — Rebuild/Sanitize/Encrypt
Volume Resource —
Initialize/Rebuild/Encrypt/ChangeRAIDLayout/ChangeStripSize/Resize.
The legacy OperationName property remains available and is now marked as deprecated."

- Added support for StorageController status conditions ResetRecommended and ResetRequired. When configuration changes require a system reboot to take effect, the controller reports the status through both Status.Conditions and Redfish event messages.
- Enhanced RDE error messaging to provide clearer error descriptions for Volume DELETE and SED-enabled CREATE operations, returning detailed messages directly in the response payload instead of generic ExtendedInfo references.

Firmware Package - HPE MR216i-o Gen11 Tri Mode Controller

Version: 52.36.3-6584 (Recommended)

Important Note!

- This firmware version to be used on HPE MR216i-o Gen11 Controller.
- The minimum iLO versions required to support 52.36.3-6584 are iLO 7 1.20, iLO 6 1.74, and iLO 5 3.18.

Prerequisites

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

Fixes

- Fix an issue that Backup Exec doesn’t work with LTO drives in Linux systems
- Fix a rare issue that controller VM fails to bootup after a host reboot on Linux hypervisor
- Fix an issue that poor performance is observed during small-range writes
- Fix an issue that storcli show /cx/ex/sx poh (power on hour) command report error on NVMe drives
- Fix a rare issue that PL fault 0x4318 is observed during the IPMI power-cycle test
- Fix a rare issue that cache restore failure observed after firmware update followed by a server UMCE (unrecoverable machine check error)
- Fix an issue that firmware may assert when NVME drives take long time for Task Management
- Fix a rare issue that PL fault 0x6054 observed during patrol read in progress
- Fix a rare issue that firmware may assert during firmware update with IOs and task managements on JBOD drives.
- Fix an issue that foreign drive is shown in HotspareType@Redfish.AllowableValues
- Fix an issue that SATA LFF drives list the "DriveFormFactor" as "2_5" under the Storage tab and in Redfish
- Fix an issue that Server health shows Warning when a degraded volume is present
- Fix a rare issue that GET operation on Redfish Drive URI occasionally return 404 Not Found
- Fix an issue that rebuild does not start on an SED drive when inserted in the missing slot of a R1 drive
- Fix an issue that NVME drive undergoing sanitize is not detected after server reboot
- Fix a rare issue that Redfish Chassis properties are not properly displayed for UBM10 backplane
- Fix an issue that PCIConfiglink page events may come continuously in snapdump log

・Fix a rare issue that firmware may assert when user starts crypto erase and removed the drive

・Fix an issue that the sanitize percentage does not progress when monitoring drive's sanitize state

・Fix a rare issue that PLDM Fault 0x5: Command abort failed observed when doing backplane firmware update

・Fix a rare firmware crash that may occur during concurrent Virtual Machine clone operations and JBOD creation

・Fix an issue that firmware may assert if drive goes through shield recovery and is subsequently removed

・Fix a rare issue that firmware may assert while running IO's and Task Management

Enhancements

・Add additional escape sequences for special characters when encoding BEJString to comply with the DMTF specification. iLO 7 1.20, iLO6 1.74 and iLO5 3.18 are required to support this change.

・DMTF PLDM Redfish Device Enablement enhancements

- Add support for Redfish Conditions (GET)
- Each resource contains a conditions table that lists the appropriate MessageId and MessageSeverity. Redfish messages impact the Redfish resource Status object. Any outstanding message will appear in the Redfish Status[Conditions] array. The highest Status[Conditions][Severity] sets the overall Status[Health] of the resource. When the Status[Conditions] array is empty the Status[Health] shall be OK.
- Port Conditions do not display any condition other than OK
- In scenarios where ControllerPreviousError condition happens, the same is listed under StorageController.Status. Usually after iLO acknowledges ControllerPreviousError event, FW clears the condition from the StorageController.Status.Conditions[] list.
- Redfish Metrics GET Support for DriveMetrics, EnvironmentMetrics and VolumeMetrics
- DriveMetrics: BadBlockCount, ReadIOKiBytes, WriteIOKiBytes, PowerOnHours, NVMeSMART (MVMeSMART attributes are supported for NVMe drive only)
- EnvironmentMetrics for Drive Resource: TemperatureCelsius.Reading
- VolumeMetrics: ConsistencyCheckCount, ConsistencyCheckErrorCount, RebuildErrorCount
- 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 Redfish Parallel Resource PDR. The feature reduce iLO resource required to support controller related Metrics.

・Add support for UBM11 backplane

・Enhanced the UBM backplane firmware update process to eliminate the risk of firmware corruption when transferred data becomes corrupted

・Refine the message on HII prereview configuration for the foreign import

・Removed the Sanitize Secure Erase option from MRSA for SED drives, as SEDs support only Cryptographic Erase

・Return error when enabling encryption with 256 characters in the "EncryptionKeyIdentifier" property through Redfish

Firmware Package - HPE MR216i-p Gen11 Tri Mode Controller

Version: 52.36.3-6584 (Recommended)

Important Note!

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

・The minimum iLO versions required to support 52.36.3-6584 are iLO 7 1.20, iLO 6 1.74, and iLO 5 3.18.

Prerequisites

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

Fixes

・Fix an issue that Backup Exec doesn’t work with LTO drives in Linux systems

・Fix a rare issue that controller VM fails to bootup after a host reboot on Linux hypervisor

・Fix an issue that poor performance is observed during small-range writes

・Fix an issue that storcli show /cx/ex/sx poh (power on hour) command report error on NVMe drives

・Fix a rare issue that PL fault 0x4318 is observed during the IPMI power-cycle test

・Fix a rare issue that cache restore failure observed after firmware update followed by a server UMCE (unrecoverable machine check error)

・Fix an issue that firmware may assert when NVME drives take long time for Task Management

・Fix a rare issue that PL fault 0x6054 observed during patrol read in progress

・Fix a rare issue that firmware may assert during firmware update with IOs and task managements on JBOD drives.

・Fix an issue that foreign drive is shown in HotspareType@Redfish.AllowableValues

・Fix an issue that SATA LFF drives list the "DriveFormFactor" as "2_5" under the Storage tab and in Redfish

・Fix an issue that Server health shows Warning when a degraded volume is present

・Fix a rare issue that GET operation on Redfish Drive URI occasionally return 404 Not Found

・Fix an issue that rebuild does not start on an SED drive when inserted in the missing slot of a R1 drive

・Fix an issue that NVME drive undergoing sanitize is not detected after server reboot

・Fix a rare issue that Redfish Chassis properties are not properly displayed for UBM10 backplane

・Fix an issue that PCIConfiglink page events may come continuously in snapdump log

・Fix a rare issue that firmware may assert when user starts crypto erase and removed the drive

・Fix an issue that the sanitize percentage does not progress when monitoring drive's sanitize state

・Fix a rare issue that PLDM Fault 0x5: Command abort failed observed when doing backplane firmware update

・Fix a rare firmware crash that may occur during concurrent Virtual Machine clone operations and JBOD creation

・Fix an issue that firmware may assert if drive goes through shield recovery and is subsequently removed

・Fix a rare issue that firmware may assert while running IO's and Task Management

Enhancements

・Add additional escape sequences for special characters when encoding BEJString to comply with the DMTF specification. iLO 7 1.20, iLO6 1.74 and iLO5 3.18 are required to support this change.

・DMTF PLDM Redfish Device Enablement enhancements

- Add support for Redfish Conditions (GET)
- Each resource contains a conditions table that lists the appropriate MessageId and MessageSeverity. Redfish messages impact the Redfish resource Status object. Any outstanding message will appear in the Redfish Status[Conditions] array. The highest Status[Conditions][Severity] sets the overall Status[Health] of the resource. When the Status[Conditions] array is empty the Status[Health] shall be OK.
- Port Conditions do not display any condition other than OK
- In scenarios where ControllerPreviousError condition happens, the same is listed under StorageController.Status. Usually after iLO acknowledges ControllerPreviousError event, FW clears the condition from the StorageController.Status.Conditions[] list.
- Redfish Metrics GET Support for DriveMetrics, EnvironmentMetrics and VolumeMetrics
- DriveMetrics: BadBlockCount, ReadIOKiBytes, WriteIOKiBytes, PowerOnHours, NVMeSMART (MVMeSMART attributes are supported for NVMe drive only)
- EnvironmentMetrics for Drive Resource: TemperatureCelsius.Reading
- VolumeMetrics: ConsistencyCheckCount, ConsistencyCheckErrorCount, RebuildErrorCount
- 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 Redfish Parallel Resource PDR. The feature reduce iLO resource required to support controller related Metrics.

・Add support for UBM11 backplane

・Enhanced the UBM backplane firmware update process to eliminate the risk of firmware corruption when transferred data becomes corrupted

・Refine the message on HII prereview configuration for the foreign import

・Removed the Sanitize Secure Erase option from MRSA for SED drives, as SEDs support only Cryptographic Erase

・Return error when enabling encryption with 256 characters in the "EncryptionKeyIdentifier" property through Redfish

Firmware Package - HPE MR408i-o Gen11 Tri Mode Controller

Version: 52.36.3-6584 (Recommended)

Important Note!

・This firmware version to be used on HPE MR408i-o Gen11 Controller.

・The minimum iLO versions required to support 52.36.3-6584 are iLO 7 1.20, iLO 6 1.74, and iLO 5 3.18.

Prerequisites

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

Fixes

・Fix an issue that Backup Exec doesn’t work with LTO drives in Linux systems

・Fix a rare issue that controller VM fails to bootup after a host reboot on Linux hypervisor

・Fix an issue that poor performance is observed during small-range writes

・Fix an issue that storcli show /cx/ex/sx poh (power on hour) command report error on NVMe drives

・Fix a rare issue that PL fault 0x4318 is observed during the IPMI power-cycle test

・Fix a rare issue that cache restore failure observed after firmware update followed by a server UMCE (unrecoverable machine check error)

・Fix an issue that firmware may assert when NVME drives take long time for Task Management

・Fix a rare issue that PL fault 0x6054 observed during patrol read in progress

・Fix a rare issue that firmware may assert during firmware update with IOs and task managements on JBOD drives.

・Fix an issue that foreign drive is shown in HotspareType@Redfish.AllowableValues

・Fix an issue that SATA LFF drives list the "DriveFormFactor" as "2_5" under the Storage tab and in Redfish

・Fix an issue that Server health shows Warning when a degraded volume is present

・Fix a rare issue that GET operation on Redfish Drive URI occasionally return 404 Not Found

・Fix an issue that rebuild does not start on an SED drive when inserted in the missing slot of a R1 drive

・Fix an issue that NVME drive undergoing sanitize is not detected after server reboot

・Fix a rare issue that Redfish Chassis properties are not properly displayed for UBM10 backplane

・Fix an issue that PCIConfiglink page events may come continuously in snapdump log

・Fix a rare issue that firmware may assert when user starts crypto erase and removed the drive

・Fix an issue that the sanitize percentage does not progress when monitoring drive's sanitize state

・Fix a rare issue that PLDM Fault 0x5: Command abort failed observed when doing backplane firmware update

・Fix a rare firmware crash that may occur during concurrent Virtual Machine clone operations and JBOD creation

・Fix an issue that firmware may assert if drive goes through shield recovery and is subsequently removed

・Fix a rare issue that firmware may assert while running IO's and Task Management

Enhancements

・Add additional escape sequences for special characters when encoding BEJString to comply with the DMTF specification. iLO 7 1.20, iLO6 1.74 and iLO5 3.18 are required to support this change.

・DMTF PLDM Redfish Device Enablement enhancements

- Add support for Redfish Conditions (GET)
- Each resource contains a conditions table that lists the appropriate MessageId and MessageSeverity. Redfish messages impact the Redfish resource Status object. Any outstanding message will appear in the Redfish Status[Conditions] array. The highest Status[Conditions][Severity] sets the overall Status[Health] of the resource. When the Status[Conditions] array is empty the Status[Health] shall be OK.
- Port Conditions do not display any condition other than OK
- In scenarios where ControllerPreviousError condition happens, the same is listed under StorageController.Status. Usually after iLO acknowledges ControllerPreviousError event, FW clears the condition from the StorageController.Status.Conditions[] list.
- Redfish Metrics GET Support for DriveMetrics, EnvironmentMetrics and VolumeMetrics
- DriveMetrics: BadBlockCount, ReadIOKiBytes, WriteIOKiBytes, PowerOnHours, NVMeSMART (MVMeSMART attributes are supported for NVMe drive only)

- EnvironmentMetrics for Drive Resource: TemperatureCelsius.Reading
- VolumeMetrics: ConsistencyCheckCount, ConsistencyCheckErrorCount, RebuildErrorCount
- 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 Redfish Parallel Resource PDR. The feature reduce iLO resource required to support controller related Metrics.

・Add support for UBM11 backplane

・Enhanced the UBM backplane firmware update process to eliminate the risk of firmware corruption when transferred data becomes corrupted

・Refine the message on HII prereview configuration for the foreign import

・Removed the Sanitize Secure Erase option from MRSA for SED drives, as SEDs support only Cryptographic Erase

・Return error when enabling encryption with 256 characters in the "EncryptionKeyIdentifier" property through Redfish

Firmware Package - HPE MR408i-p Gen11 Tri Mode Controller

Version: 52.36.3-6584 (Recommended)

Important Note!

・This firmware version to be used on HPE MR408i-p Gen11 Controller.

・The minimum iLO versions required to support 52.36.3-6584 are iLO 7 1.20, iLO 6 1.74, and iLO 5 3.18.

Prerequisites

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

Fixes

・Fix an issue that Backup Exec doesn’t work with LTO drives in Linux systems

・Fix a rare issue that controller VM fails to bootup after a host reboot on Linux hypervisor

・Fix an issue that poor performance is observed during small-range writes

・Fix an issue that storcli show /cx/ex/sx poh (power on hour) command report error on NVMe drives

・Fix a rare issue that PL fault 0x4318 is observed during the IPMI power-cycle test

・Fix a rare issue that cache restore failure observed after firmware update followed by a server UMCE (unrecoverable machine check error)

・Fix an issue that firmware may assert when NVME drives take long time for Task Management

・Fix a rare issue that PL fault 0x6054 observed during patrol read in progress

・Fix a rare issue that firmware may assert during firmware update with IOs and task

managements on JBOD drives.

・Fix an issue that foreign drive is shown in HotspareType@Redfish.AllowableValues

・Fix an issue that SATA LFF drives list the "DriveFormFactor" as "2_5" under the Storage tab and in Redfish

・Fix an issue that Server health shows Warning when a degraded volume is present

・Fix a rare issue that GET operation on Redfish Drive URI occasionally return 404 Not Found

・Fix an issue that rebuild does not start on an SED drive when inserted in the missing slot of a R1 drive

・Fix an issue that NVME drive undergoing sanitize is not detected after server reboot

・Fix a rare issue that Redfish Chassis properties are not properly displayed for UBM10 backplane

・Fix an issue that PCIConfiglink page events may come continuously in snapdump log

・Fix a rare issue that firmware may assert when user starts crypto erase and removed the drive

・Fix an issue that the sanitize percentage does not progress when monitoring drive's sanitize state

・Fix a rare issue that PLDM Fault 0x5: Command abort failed observed when doing backplane firmware update

・Fix a rare firmware crash that may occur during concurrent Virtual Machine clone operations and JBOD creation

・Fix an issue that firmware may assert if drive goes through shield recovery and is subsequently removed

・Fix a rare issue that firmware may assert while running IO's and Task Management

Enhancements

・Add additional escape sequences for special characters when encoding BEJString to comply with the DMTF specification. iLO 7 1.20, iLO6 1.74 and iLO5 3.18 are required to support this change.

・DMTF PLDM Redfish Device Enablement enhancements

- Add support for Redfish Conditions (GET)
- Each resource contains a conditions table that lists the appropriate MessageId and MessageSeverity. Redfish messages impact the Redfish resource Status object. Any outstanding message will appear in the Redfish Status[Conditions] array. The highest Status[Conditions][Severity] sets the overall Status[Health] of the resource. When the Status[Conditions] array is empty the Status[Health] shall be OK.
- Port Conditions do not display any condition other than OK
- In scenarios where ControllerPreviousError condition happens, the same is listed under StorageController.Status. Usually after iLO acknowledges ControllerPreviousError event, FW clears the condition from the StorageController.Status.Conditions[] list.
- Redfish Metrics GET Support for DriveMetrics, EnvironmentMetrics and VolumeMetrics

- DriveMetrics: BadBlockCount, ReadIOKiBytes, WriteIOKiBytes, PowerOnHours, NVMeSMART (MVMeSMART attributes are supported for NVMe drive only)
- EnvironmentMetrics for Drive Resource: TemperatureCelsius.Reading
- VolumeMetrics: ConsistencyCheckCount, ConsistencyCheckErrorCount, RebuildErrorCount
- 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 Redfish Parallel Resource PDR. The feature reduce iLO resource required to support controller related Metrics.

・Add support for UBM11 backplane

・Enhanced the UBM backplane firmware update process to eliminate the risk of firmware corruption when transferred data becomes corrupted

・Refine the message on HII prereview configuration for the foreign import

・Removed the Sanitize Secure Erase option from MRSA for SED drives, as SEDs support only Cryptographic Erase

・Return error when enabling encryption with 256 characters in the "EncryptionKeyIdentifier" property through Redfish

Firmware Package - HPE MR416i-o Gen11 Tri Mode Controller

Version: 52.36.3-6584 (Recommended)

Important Note!

・This firmware version to be used on HPE MR416i-o Gen11 Controller.

・The minimum iLO versions required to support 52.36.3-6584 are iLO 7 1.20, iLO 6 1.74, and iLO 5 3.18.

Prerequisites

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

Fixes

・Fix an issue that Backup Exec doesn’t work with LTO drives in Linux systems

・Fix a rare issue that controller VM fails to bootup after a host reboot on Linux hypervisor

・Fix an issue that poor performance is observed during small-range writes

・Fix an issue that storcli show /cx/ex/sx poh (power on hour) command report error on NVMe drives

・Fix a rare issue that PL fault 0x4318 is observed during the IPMI power-cycle test

・Fix a rare issue that cache restore failure observed after firmware update followed by a server UMCE (unrecoverable machine check error)

・Fix an issue that firmware may assert when NVME drives take long time for Task

Management

・Fix a rare issue that PL fault 0x6054 observed during patrol read in progress

・Fix a rare issue that firmware may assert during firmware update with IOs and task managements on JBOD drives.

・Fix an issue that foreign drive is shown in HotspareType@Redfish.AllowableValues

・Fix an issue that SATA LFF drives list the "DriveFormFactor" as "2_5" under the Storage tab and in Redfish

・Fix an issue that Server health shows Warning when a degraded volume is present

・Fix a rare issue that GET operation on Redfish Drive URI occasionally return 404 Not Found

・Fix an issue that rebuild does not start on an SED drive when inserted in the missing slot of a R1 drive

・Fix an issue that NVME drive undergoing sanitize is not detected after server reboot

・Fix a rare issue that Redfish Chassis properties are not properly displayed for UBM10 backplane

・Fix an issue that PCIConfiglink page events may come continuously in snapdump log

・Fix a rare issue that firmware may assert when user starts crypto erase and removed the drive

・Fix an issue that the sanitize percentage does not progress when monitoring drive's sanitize state

・Fix a rare issue that PLDM Fault 0x5: Command abort failed observed when doing backplane firmware update

・Fix a rare firmware crash that may occur during concurrent Virtual Machine clone operations and JBOD creation

・Fix an issue that firmware may assert if drive goes through shield recovery and is subsequently removed

・Fix a rare issue that firmware may assert while running IO's and Task Management

Enhancements

・Add additional escape sequences for special characters when encoding BEJString to comply with the DMTF specification. iLO 7 1.20, iLO6 1.74 and iLO5 3.18 are required to support this change.

・DMTF PLDM Redfish Device Enablement enhancements

- Add support for Redfish Conditions (GET)
- Each resource contains a conditions table that lists the appropriate MessageId and MessageSeverity. Redfish messages impact the Redfish resource Status object. Any outstanding message will appear in the Redfish Status[Conditions] array. The highest Status[Conditions][Severity] sets the overall Status[Health] of the resource. When the Status[Conditions] array is empty the Status[Health] shall be OK.
- Port Conditions do not display any condition other than OK
- In scenarios where ControllerPreviousError condition happens, the same is listed under StorageController.Status. Usually after iLO acknowledges ControllerPreviousError event, FW clears the condition from the

StorageController.Status.Conditions[] list.

- Redfish Metrics GET Support for DriveMetrics, EnvironmentMetrics and VolumeMetrics
- DriveMetrics: BadBlockCount, ReadIOKiBytes, WriteIOKiBytes, PowerOnHours, NVMeSMART (MVMeSMART attributes are supported for NVMe drive only)
- EnvironmentMetrics for Drive Resource: TemperatureCelsius.Reading
- VolumeMetrics: ConsistencyCheckCount, ConsistencyCheckErrorCount, RebuildErrorCount
- 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 Redfish Parallel Resource PDR. The feature reduce iLO resource required to support controller related Metrics.

・Add support for UBM11 backplane

・Enhanced the UBM backplane firmware update process to eliminate the risk of firmware corruption when transferred data becomes corrupted

・Refine the message on HII prereview configuration for the foreign import

・Removed the Sanitize Secure Erase option from MRSA for SED drives, as SEDs support only Cryptographic Erase

・Return error when enabling encryption with 256 characters in the "EncryptionKeyIdentifier" property through Redfish

Firmware Package - HPE MR416i-p Gen11 Tri Mode Controller

Version: 52.36.3-6584 (Recommended)

Important Note!

・This firmware version to be used on HPE MR416i-p Gen11 Controller.

・The minimum iLO versions required to support 52.36.3-6584 are iLO 7 1.20, iLO 6 1.74, and iLO 5 3.18.

Prerequisites

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

Fixes

・Fix an issue that Backup Exec doesn’t work with LTO drives in Linux systems

・Fix a rare issue that controller VM fails to bootup after a host reboot on Linux hypervisor

・Fix an issue that poor performance is observed during small-range writes

・Fix an issue that storcli show /cx/ex/sx poh (power on hour) command report error on NVMe drives

・Fix a rare issue that PL fault 0x4318 is observed during the IPMI power-cycle test

・Fix a rare issue that cache restore failure observed after firmware update followed by a server UMCE (unrecoverable machine check error)

・Fix an issue that firmware may assert when NVME drives take long time for Task Management

・Fix a rare issue that PL fault 0x6054 observed during patrol read in progress

・Fix a rare issue that firmware may assert during firmware update with IOs and task managements on JBOD drives.

・Fix an issue that foreign drive is shown in HotspareType@Redfish.AllowableValues

・Fix an issue that SATA LFF drives list the "DriveFormFactor" as "2_5" under the Storage tab and in Redfish

・Fix an issue that Server health shows Warning when a degraded volume is present

・Fix a rare issue that GET operation on Redfish Drive URI occasionally return 404 Not Found

・Fix an issue that rebuild does not start on an SED drive when inserted in the missing slot of a R1 drive

・Fix an issue that NVME drive undergoing sanitize is not detected after server reboot

・Fix a rare issue that Redfish Chassis properties are not properly displayed for UBM10 backplane

・Fix an issue that PCIConfiglink page events may come continuously in snapdump log

・Fix a rare issue that firmware may assert when user starts crypto erase and removed the drive

・Fix an issue that the sanitize percentage does not progress when monitoring drive's sanitize state

・Fix a rare issue that PLDM Fault 0x5: Command abort failed observed when doing backplane firmware update

・Fix a rare firmware crash that may occur during concurrent Virtual Machine clone operations and JBOD creation

・Fix an issue that firmware may assert if drive goes through shield recovery and is subsequently removed

・Fix a rare issue that firmware may assert while running IO's and Task Management

Enhancements

・Add additional escape sequences for special characters when encoding BEJString to comply with the DMTF specification. iLO 7 1.20, iLO6 1.74 and iLO5 3.18 are required to support this change.

・DMTF PLDM Redfish Device Enablement enhancements

- Add support for Redfish Conditions (GET)
- Each resource contains a conditions table that lists the appropriate MessageId and MessageSeverity. Redfish messages impact the Redfish resource Status object. Any outstanding message will appear in the Redfish Status[Conditions] array. The highest Status[Conditions][Severity] sets the overall Status[Health] of the resource. When the Status[Conditions] array is empty the Status[Health] shall be OK.
- Port Conditions do not display any condition other than OK

- In scenarios where ControllerPreviousError condition happens, the same is listed under StorageController.Status. Usually after iLO acknowledges ControllerPreviousError event, FW clears the condition from the StorageController.Status.Conditions[] list.
- Redfish Metrics GET Support for DriveMetrics, EnvironmentMetrics and VolumeMetrics
- DriveMetrics: BadBlockCount, ReadIOKiBytes, WriteIOKiBytes, PowerOnHours, NVMeSMART (MVMeSMART attributes are supported for NVMe drive only)
- EnvironmentMetrics for Drive Resource: TemperatureCelsius.Reading
- VolumeMetrics: ConsistencyCheckCount, ConsistencyCheckErrorCount, RebuildErrorCount
- 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 Redfish Parallel Resource PDR. The feature reduce iLO resource required to support controller related Metrics.

・Add support for UBM11 backplane

・Enhanced the UBM backplane firmware update process to eliminate the risk of firmware corruption when transferred data becomes corrupted

・Refine the message on HII prereview configuration for the foreign import

・Removed the Sanitize Secure Erase option from MRSA for SED drives, as SEDs support only Cryptographic Erase

・Return error when enabling encryption with 256 characters in the "EncryptionKeyIdentifier" property through Redfish

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

Version: 14.4.731.12 (Recommended)

Important Note!

This component is supported only on Gen12 ProLiant and Gen11 AMD servers.

Release notes:

Broadcom Release notes

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1620E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.4.731.12	14.4.731.12	14.4.716.0	14.4.718.0
HPE SN1720E 64Gb Dual					

Port Fibre Channel Host Bus Adapter	64Gb	14.4.731.12	14.4.731.12	14.4.716.0	14.4.718.0

Added Following Enhancements:

[RedFish]:HPE specific SFP Data - Predicted days for non working stage [Redfish]: API to read SFP Data

Fixed the following:

SPDM - Get Certificate response returns out of bound values

Fixes

Fixed the following:

SPDM - Get Certificate response returns out of bound values

Enhancements

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1620E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.4.731.12	14.4.731.12	14.4.716.0	14.4.718.0
HPE SN1720E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.4.731.12	14.4.731.12	14.4.716.0	14.4.718.0

Added Following Enhancements:

[RedFish]:HPE specific SFP Data - Predicted days for non working stage [Redfish]: API to read SFP Data

Supported Devices and Features

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

32Gb FC Adapter:

・HPE SN1620E 32Gb Dual port Fibre Channel Host Bus Adapter

64Gb FC Adapter:

・HPE SN1720E 64Gb Dual port Fibre Channel Host Bus Adapter

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

Version: 02.11.01 (Recommended)

Important Note!

Release Notes:

HPE QLogic Adapters Release Notes

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
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.11.01	09.15.05	7.39	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.11.01	09.15.05	7.39	0.0

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.

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

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
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.11.01	09.15.05	7.39	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.11.01	09.15.05	7.39	0.0

Supported Devices and Features

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

32Gb Fibre Channel Host Bus Adapter:

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

64Gb Fibre Channel Host Bus Adapter:

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

Firmware Package - 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.
- 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: 1.06 (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

- Disable UBM long reset

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

Version: 2026.03.01 (Recommended)

Important Note!

- Actual ESXi8.0 ssacli version is 6.60.8.0

Enhancements

- Modified the SSACLI component version format to meet the new requirement from VMware ESXi for 9.1
- Added spare type decoding in Array Diagnostic Utility (ADU) reports to indicate whether a logical drive uses dedicated or auto-replace spares
- Modified the default strip size for NVMe drives based on the Maximum Data Transfer Size (MDTS), and tools will set the default strip size to the minimum supported MDTS value when creating or migrating a logical drive

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

Version: 2026.03.01 (Recommended)

Important Note!

- Actual ESXi9.0 ssacli version is 6.60.11.0
- Due to VMware upgrade constraints, the SSA CLI package version (6.60.11) differs from the internal version (6.60.9). This is expected behavior.

Enhancements

- Modified the SSACLI component version format to meet the new requirement from VMware ESXi for 9.1
- Added spare type decoding in Array Diagnostic Utility (ADU) reports to indicate whether a logical drive uses dedicated or auto-replace spares
- Modified the default strip size for NVMe drives based on the Maximum Data Transfer Size (MDTS), and tools will set the default strip size to the minimum supported MDTS value when creating or migrating a logical drive

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

Version: 2026.03.01 (Recommended)

Important Note!

・Actual ESXi Version is 0007.3604.0000.0000

Fixes

・Fix an issue that storcli show /cx/ex/sx poh (power on hour) command report error on NVMe drives

・Fix an issue that PSOC update is not allowing when the part number is beyond 65535

Enhancements

・Return error when enabling encryption with 256 characters for keyid in Drive Security command

・Display the controller serial number as "NA" when not programmed

HPE QLogic Fibre Channel driver component for VMware vSphere 8.0

Version: 2026.03.01 (Recommended)

Important Note!

This component is supported only on Gen12 ProLiant servers. Release Notes:

HPE QLogic Adapters Release Notes

This component is intended to be used by HPE applications. It is a zip that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com 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 5.4.86.0

This driver is only supported on VMware ESXi 8.0u3

Supported Devices and Features

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

32Gb Fibre Channel Host Bus Adapter:

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

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

64Gb Fibre Channel Host Bus Adapter:

・HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter

・HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter

HPE QLogic Fibre Channel driver component for VMware vSphere 9.0

Version: 2026.03.01 (Recommended)

Important Note!

This component is supported only on Gen12 ProLiant servers. Release Notes:

HPE QLogic Adapters Release Notes

This component is intended to be used by HPE applications. It is a zip that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com 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

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

32Gb Fibre Channel Host Bus Adapter:

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

64Gb Fibre Channel Host Bus Adapter:

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

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

Version: 4.6.0 (Recommended)

Prerequisites

- amsd only supported on HPE Gen10/Gen10 Plus and later Server Generations.
- 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: 4.70.0.0 (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.
- During AMS installation in silent mode, SMA is installed but the service is not enabled.
- To enable SMA service at a later time, go to the following

folder: %ProgramFiles%¥OEM¥AMS¥Service¥ (Typically c:¥Program Files¥OEM¥AMS¥Service) and execute "EnableSma.bat /f"

- IMPORTANT: The SNMP service community name and permission must also be setup. This is not done by “EnableSma.bat”.
- To disable SMA after it has been enabled, go to the following folder: %ProgramFiles%¥OEM¥AMS¥Service¥ (Typically c:¥Program Files¥OEM¥AMS¥Service) and execute "DisableSma.bat /f"
- After installing Windows operating system, make sure all the latest Microsoft Updates are downloaded and installed (wuapp.exe can be launched to start the update process). If this is not done, a critical error may be reported in

Windows Event Log, “The Agentless Management Service terminated unexpectedly.”.

AMS Control Panel Applet:

- The AMS control panel applet UI is best displayed on the system when screen resolution is 1280 x 1024 pixels or higher and text size 100%.
- Test trap generated from AMS Control Panel Applet requires iLO6 firmware version 1.1 and newer.
- When in iLO6 high security mode (e.g. FIPS mode), MD5 authentication protocol will not be shown.

Prerequisites

The Channel Interface Driver for Windows X64 must be installed prior to this component.

Microsoft SNMP Service must be enabled, if SMA (System Management Assistant) is enabled.

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 Agentless Management Bundle Smart Component on ESXi for Gen11 and Gen12 Servers

Version: 2026.03.01 (Recommended)

Prerequisites

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 issues resolved in this release.

HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for MR Controllers)

Version: 8.16.13.0 (Recommended)

Fixes

- Fix an issue that MRSA return " Error Code 5002 Invalid URI Parameter" when selecting Continuously in Schedule Consistency Check setting

Enhancements

- Support MR200, MR400 and MR900 controllers
- Enhance the MRSA Bypass Authentication mechanism so that the configuration is allowed only when logged in as an administrator or root
- Removed the Sanitize Secure Erase option from MRSA for SED drives, as SEDs support only Cryptographic Erase
- Return error when enabling encryption with 256 characters for Security Key Identifier in Drive Security setting

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

Version: 007.3604.0000.0000 (Recommended)

Fixes

- Fix an issue that storcli show /cx/ex/sx poh (power on hour) command report error on NVMe drives
- Fix an issue that PSOC update is not allowing when the part number is beyond 65535

Enhancements

- Return error when enabling encryption with 256 characters for keyid in Drive Security command
- Display the controller serial number as "NA" when not programmed

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

Version: 7.3604.0.0 (Recommended)

Fixes

- Fix an issue that storcli show /cx/ex/sx poh (power on hour) command report error on NVMe drives
- Fix an issue that PSOC update is not allowing when the part number is beyond 65535

Enhancements

- Return error when enabling encryption with 256 characters for keyid in Drive Security command
- Display the controller serial number as "NA" when not programmed

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

Version: 6.60.8.0 (Recommended)

Enhancements

- Modified the SSACLI component version format to meet the new requirement from VMware ESXi for 9.1
- Added spare type decoding in Array Diagnostic Utility (ADU) reports to indicate whether a logical drive uses dedicated or auto-replace spares
- Modified the default strip size for NVMe drives based on the Maximum Data Transfer Size (MDTS), and tools will set the default strip size to the minimum supported MDTS value when creating or migrating a logical drive

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

Version: 6.60.8.0 (Recommended)

Enhancements

- Modified the SSACLI component version format to meet the new requirement from VMware ESXi for 9.1
- Added spare type decoding in Array Diagnostic Utility (ADU) reports to indicate whether a logical drive uses dedicated or auto-replace spares
- Modified the default strip size for NVMe drives based on the Maximum Data Transfer Size (MDTS), and tools will set the default strip size to the minimum supported MDTS value when creating or migrating a logical drive

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

Version: 6.60.8.0 (Recommended)

Prerequisites

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

IMPORTANT UPDATE: SSA (GUI) for Linux can now be run without requiring the System Management Homepage. SSA now supports a Local Application Mode for

Linux. The System Management Homepage is still supported, but no longer required to run the SSA GUI. To invoke, enter the following at the command prompt:

ssa -local

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

network connections.

Enhancements

- Added spare type decoding in Array Diagnostic Utility (ADU) reports to indicate whether a logical drive uses dedicated or auto-replace spares
- Modified the default strip size for NVMe drives based on the Maximum Data Transfer Size (MDTS), and tools will set the default strip size to the minimum supported MDTS value when creating or migrating a logical drive

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

Version: 6.60.8.0 (Recommended)

Enhancements

- Added spare type decoding in Array Diagnostic Utility (ADU) reports to indicate whether a logical drive uses dedicated or auto-replace spares
- Modified the default strip size for NVMe drives based on the Maximum Data Transfer Size (MDTS), and tools will set the default strip size to the minimum supported MDTS value when creating or migrating a logical drive

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

Version: 6.60.8.0 (Recommended)

Enhancements

- Modified the SSACLI component version format to meet the new requirement from VMware ESXi for 9.1
- Added spare type decoding in Array Diagnostic Utility (ADU) reports to indicate whether a logical drive uses dedicated or auto-replace spares
- Modified the default strip size for NVMe drives based on the Maximum Data Transfer Size (MDTS), and tools will set the default strip size to the minimum supported MDTS value when creating or migrating a logical drive

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

Version: 6.60.8.0 (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).

Enhancements

- Modified the SSACLI component version format to meet the new requirement from VMware ESXi for 9.1
- Added spare type decoding in Array Diagnostic Utility (ADU) reports to indicate whether a logical drive uses dedicated or auto-replace spares

- Modified the default strip size for NVMe drives based on the Maximum Data Transfer Size (MDTS), and tools will set the default strip size to the minimum supported MDTS value when creating or migrating a logical drive